

ONTARIO
SUPERIOR COURT OF JUSTICE

B E T W E E N:

HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO
Applicant (Respondent on Motion)

- and -

ADAMSON BARBECUE LIMITED AND WILLIAM ADAMSON SKELLY
Respondents (Moving Parties on Motion)

ONTARIO'S BOOK OF TRANSCRIPTS

June 18, 2021

ATTORNEY GENERAL OF ONTARIO
Civil Law Division
Constitutional Law Branch
720 Bay Street, 4th Floor
Toronto, ON M7A 2S9

S. Zachary Green (LSO No. 48066K)
Tel: (416) 992-2327
Email: Zachary.Green@ontario.ca

Padraic Ryan (LSO No. 61687J)
Tel: (647) 588-2613
Email: Padraic.Ryan@ontario.ca

Of Counsel for the Applicant (Respondent on motion), Her Majesty the Queen in Right of Ontario

TO: The Registrar
Ontario Superior Court of Justice
393 University Ave., 10th Floor
Toronto, ON M5G 1E6

AND TO: **ELDERS WITHOUT BORDERS**
237 Argyle Avenue
Ottawa, ON K2P 1B8
Tel: (613) 563-7474

Michael Swinwood
Email: spiritualelders@gmail.com

Liza Swale
Email: lizaswale@gmail.com

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Court File No. CV-20-00652216-000

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Respondents/Applicants

This is a Statement on Record, taken via
Videoconference with the offices of Network Reporting &
Mediation, 100 King Street West, Suite 3600, Toronto,
Ontario, on the 28th day of May, 2021.

A P P E A R A N C E S:

Padraic Ryan Solicitors for the Applicant/Respondent
Zachary Green

Pradeep Chand Agent for the Respondents/Applicants

Liza Swale Solicitors for the Applicant/Respondent
Carly Benjamin

Also Present:

Sonya Molyneux Student-At-Law
attending with Mr. Ryan
and Mr. Green

I N D E X O F P R O C E E D I N G S

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1 --- UPON COMMENCING AT 10:09 A.M.

2 STATEMENT BY MR. GREEN:

3 MR. GREEN: It's just 10 minutes after 10:00
4 on Friday, May 28th. I see that in attendance at this
5 examination are Carly Benjamin, Liza Swale and Pradeep
6 Chand, all counsel or agents for counsel, for the
7 Respondent, Mr. Skelly.

8 Mr. Skelly isn't here. I'm just wondering
9 if his counsel, or agents for his counsel, have any
10 idea where he is, and why he isn't here at the date
11 and time agreed between counsel for his examination?

12 MR. CHAND: Yes. I'm glad that you raised
13 that, Mr. Green. Thank you very much for bringing
14 that to our attention.

15 As you know, Mr. Green, I messaged you and
16 your co-counsel late last evening. I was perusing
17 through the file and I noticed that there was no
18 Notice of Examination that was served, or at least
19 that was contained in my file.

20 And as a result, I communicated with your
21 office to see where that Notice of Examination was. I
22 did receive your response at approximately 9:36, if
23 I'm not mistaken, this morning, advising that there
24 was an agreement between counsel.

25 That being said, sir, as you know under Rule

1 34.04 of the Rules of Civil Procedure -- and I'm going
2 to read this in.

3 It indicates, "Where the person to be
4 examined is a party to the proceeding, a notice of
5 examination, (Form 34A), shall be served, (a) on the
6 party's lawyer of record; or (b) where the party acts
7 in person, on the party personally, or by an
8 alternative to personal service."

9 Unless you can point me to the Notice of
10 Examination that was served on Mr. Skelly's counsel,
11 or on Mr. Skelly himself, I don't see any legal
12 obligation for Mr. Skelly to be attending this
13 morning.

14 And the purpose of this Rule, and the
15 purpose of my request, just so that everybody is
16 clear, is that you need to understand what the
17 parameters of the examination to be. Without that, I
18 don't see how we can produce Mr. Skelly. That is my
19 position.

20 MR. GREEN: Just so I can be clear, Mr.
21 Chand, you were aware for the last 10 minutes that
22 we've all been sitting here that Mr. Skelly would not
23 attend, and you had made a prior decision that he not
24 attend, and you waited for me ask where he was before
25 you advised me of your position. Is that right?

1 MR. CHAND: I don't work for you, Mr. Green.
2 And I don't work for the Government of Ontario, for
3 that matter. I was here since 10 o'clock myself. You
4 only appeared on the screen at 10 after 10:00.

5 I've been sitting here since 10 o'clock
6 waiting for you to appear on the screen, or your co-
7 counsel, and I wanted to put this on the record.

8 That being said, Mr. Green, in the event
9 that you produce a Notice of Examination, and I become
10 aware of the parameters of the examination, I'm happy
11 to produce Mr. Skelly.

12 But without that, I have no knowledge, or
13 understanding, about the parameters of your
14 examination today. And your office has not complied
15 with the Rules, period.

16 MR. GREEN: Thank you very much for stating
17 your position on the record, Mr. Chand. I will state
18 our position on the record, and then we'll conclude
19 this cross-examination, and we'll see you later.

20 My first statement is that Mr. Ryan and I,
21 counsel for The Attorney General of Ontario, have been
22 logged onto this zoom call since well before 10
23 o'clock today.

24 We saw you all log in, and the Reporter, of
25 course, knows that. It's true that I didn't come on

1 on camera and ask where Mr. Skelly was for the first
2 10 minutes because I assumed he was running late, and
3 not that you had made a prior decision to refuse to
4 produce him, and not told us that.

5 My second point is that Rule 34.06, which
6 I'm sure you're aware of -- I'll put it on the screen
7 for you right now.

8 Here's Rule 34.06 under the heading
9 "Examinations on Consent", which says, "A person to be
10 examined and all the parties may consent to the time
11 and place of the examination and to the minimum notice
12 period and the form of notice, or to dispense with
13 notice."

14 In fact, what I have is an email from Mr.
15 Skelly's Counsel of Record specifically requesting
16 this date, which was Mr. Swinwood's choice for the
17 date, not mine.

18 We had originally agreed to yesterday, and
19 Mr. Swinwood wrote to me. And the next thing I'll put
20 up on the screen is that email from Mr. Swinwood,
21 which I'll also include in our record when we go to
22 court, advising that Mr. Skelly was available on
23 Friday, and my writing back and confirming that he
24 would be available on this day. Thus, agreeing to
25 dispense with the notice.

1 communicate as soon as possible of each person. Thank
2 you, Michael."

3 To which I replied on May 25th, "We will
4 cross-examine Mr. Skelly on Thursday, May 27th, and
5 Dr. Bridle on May 28th. Zoom details will follow.
6 Thanks."

7 To which Mr. Swinwood replied on the 25th,
8 "Good morning, Counsel. Mr. Skelly now has a conflict
9 on Thursday. Would it be possible to either reverse
10 the other of the witnesses, or to conduct the cross of
11 Mr. Skelly on Monday, the 31st? Please advise on
12 this."

13 And then there are some other
14 correspondence, which you're not copied on, although
15 there's a reference to you being a lawyer who has
16 joined them on the case.

17 And then I wrote back on May 25th, that's
18 three days ago, to say, "Yes, we will cross-examine
19 Dr. Bridle on Thursday and Mr. Skelly on Friday.
20 Thanks."

21 And that was where the matter stood. And
22 indeed, Dr. Bridle was examined, as you know,
23 yesterday, and Mr. Skelly was to be examined today.

24 We take the position that Mr. Skelly,
25 through his counsel, consented in this email to be

1 examined today and has refused to attend, and so this
2 will conclude our cross-examination of Mr. Skelly, and
3 we will ask the judge to strike out Mr. Skelly's
4 evidence because he has refused to present himself for
5 cross-examination, notwithstanding the agreement of
6 his counsel to be present on this date.

7 That concludes my statement of our position,
8 and that concludes this examination. Madam Reporter,
9 we're now off the record.

10 STATEMENT BY MR. CHAND:

11 MR. CHAND: Madam Reporter, I'm not done. I
12 have the right to respond. Are you finished, Mr.
13 Green?

14 MR. GREEN: Bye everyone.

15 MR. CHAND: They might have left, but I want
16 a few things on the record. Now, we have Rules of
17 Civil Procedure for a reason.

18 In this particular case we have an
19 examination of Mr. Skelly that was, according to
20 counsel, set to take place today.

21 But the whole purpose of the Rules is to set
22 out parameters, (a) to notify the parties for the
23 examination; and (b) the Notice of Examination
24 typically sets out the parameters of the examination.

25 Without seeing the Notice of Examination, or

1 without knowing the particulars, or the parameters of
2 the examination, we cannot possibly produce our
3 client.

4 Mr. Green and Mr. Ryan are well-aware of the
5 Rules of Civil Procedure. For whatever reason they
6 decided to dispense with those rules, and they didn't
7 produce their Notice of Examination.

8 If they decide to produce their Notice of
9 Examination today, we will produce Mr. Skelly. Thank
10 you.

11 --- WHEREUPON THE EXAMINATION WAS ADJOURNED AT 10:19 A.M.

12
13 I hereby certify that this a
14 Statement on Record, taken before me
15 to the best of my skill and ability
16 on the 28th day of May, 2021.

17
18 -----
19 JODY SAUVE - Court Reporter

20
21
22 Reproductions of this transcript are in direct
23 violation of O.R. 587/91 Administration of Justice Act
24 January 1, 1990, and are not certified without the
25 original signature of the Court Reporter

Court File No. CV-20-00652216-000

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--- REFUSAL NO. 11	22

1 --- UPON COMMENCING AT 1:08 P.M.

2 WILLIAM ADAMSON SKELLY; Affirmed

3 EXAMINATION BY MR. GREEN:

4 1. Q. Good afternoon, Mr. Skelly.

5 A. Good afternoon.

6 2. Q. You can hear me okay?

7 A. Yes, I can.

8 3. Q. Mr. Skelly, you sometimes post videos
9 on the Adamson Barbecue Instagram account, correct?

10 A. Yes, that's correct.

11 4. Q. I'm going to show you a video. Hold on
12 one sec while I pull it up. After I show it to you,
13 I'm going to ask you some questions about it.

14 A. Okay.

15 5. Q. Can you see that video on your screen
16 right now?

17 MR. CHAND: For the record, it's not a
18 video. It's a photo -- what it appears to be is a
19 photograph of what appears to be Mr. Adam Skelly. We
20 don't see a video. All we see is a photograph at this
21 time.

22 MR. GREEN: I'm going to ask counsel not to
23 interrupt me in the middle of my cross-examination or
24 give his impressions or evidence about what he thinks
25 he sees. I'm --

1 MR. CHAND: Mr. --

2 MR. GREEN: -- here to --

3 MR. CHAND: -- Green ---

4 MR. GREEN: -- ask the -- I'm here to ask
5 the witness questions.

6 MR. CHAND: Mr. Green, I'm not here to play
7 any games with you. As I said, it appears to be a
8 photo ---

9 MR. GREEN: Mr. Chand --

10 MR. CHAND: Mr. Green ---

11 MR. GREEN: -- don't interrupt ---

12 MR. CHAND: Mr. Green -- no. You don't
13 interrupt me. You got it, Mr. Green? Do you
14 understand? Are --

15 BY MR. GREEN:

16 6. Q. Mr. Skelly ---

17 MR. CHAND: -- you ready?

18 BY MR. GREEN:

19 7. Q. Mr. Skelly, I'm going to show you a
20 video. I want you to tell me whether you recognize it
21 or not. Do you understand that question?

22 A. Yeah, I comprehend.

23 8. Q. Excellent. Is that your face on the
24 screen, Mr. Skelly?

25 A. Yes, it is.

1 MR. CHAND: I just --

2 MR. GREEN: -- his answer ---

3 MR. CHAND: -- told you the question's
4 refused. Move on.

5 MR. GREEN: He just --

6 MR. CHAND: Next --

7 MR. GREEN: -- said, 'Yes.'

8 MR. CHAND: -- subject. I just said, 'Move
9 on.' The question's refused. Move on. Next
10 question.

11 BY MR. GREEN:

12 12. Q. Mr. Skelly --

13 MR. CHAND: Next question, Mr. Green.

14 BY MR. GREEN:

15 13. Q. -- I'm going to --

16 MR. CHAND: Next question --

17 BY MR. GREEN:

18 14. Q. -- ask you a --

19 MR. CHAND: -- Mr. Green.

20 BY MR. GREEN:

21 15. Q. -- a different question.

22 MR. CHAND: Next question, Mr. Green. Go
23 ahead. Go ahead. It's all --

24 BY MR. GREEN:

25 16. Q. Mr. Skelly ---

1 MR. CHAND: -- all yours.

2 MR. GREEN: Okay. In the first place, Mr.
3 Chand, don't interrupt to say, 'Okay. Go ahead. All
4 yours.' That's a waste of the court reporter's --

5 MR. CHAND: No.

6 MR. GREEN: -- time.

7 MR. CHAND: No. No. You know what?

8 MR. GREEN: When you've finished --

9 MR. CHAND: Just ask the --

10 MR. GREEN: -- speaking ---

11 MR. CHAND: -- question and I'll tell you --

12 MR. GREEN: Just be quiet.

13 MR. CHAND: -- if he can answer the -- I'll
14 -- just ask a question and I'll tell you if he's going
15 to answer the question. How does that sound, Mr.
16 Green?

17 BY MR. GREEN:

18 17. Q. Mr. Skelly --

19 MR. CHAND: Go ahead.

20 MR. GREEN: -- I'm now going to play your
21 video in full, and let's all just watch it together.
22 Okay? Madam Reporter, I take it you have no
23 difficulty hearing and recording the video. Is that
24 correct?

25 THE REPORTER: That's correct.

1 MR. GREEN: So, we'll play it into the
2 transcript.

3 *** VIDEO BEGINS ***

4 "Hello Adamson Barbecue fans. Yeah, been a
5 while since I come on here. The authorities, they
6 finally let me come back and post on social media
7 again. I'm sure you noticed. The judge who is
8 proceeding (sic) over the bail variation said that the
9 restrictions on my social media use and access to my
10 restaurant were errors in law. So, that's great news.
11 I can come back on here again. All I can't do is
12 promote or incite breaches of the law. So, I can't be
13 telling anybody to open protest or anything like that.
14 I'll have to save that for anybody else who's willing
15 to do it. I wanted to tell you about a little change
16 to our hours of operations and access to the Leaside
17 restaurant. Since the civil disobedience in November
18 at the Etobicoke location, the authorities have been
19 making it very challenging for me to operate. They're
20 at my place in Leaside almost every single day.
21 Bylaw, police. They've kind of toned it back over the
22 last couple weeks, but they come in, they try to find
23 problems with the place, and they found some stuff,
24 some little electrical and fire issues that we'll be
25 fixing up, but the main thing is operating without a

1 business licence. So, I haven't had a business
2 licence since we opened in 2016. I set up the place
3 as a catering kitchen first, because we had Stoke
4 Stack BBQ, which was a pretty busy catering company.
5 I wanted to open a lunch counter in there, thinking
6 that it could help keep us busy on the weekdays. So,
7 I looked online at the City of Toronto interactive
8 zoning map. You can do this yourself, and you'll see
9 that it's an E1 zone, and in there, there's -- you
10 know, you're allowed to have an eating establishment.
11 There's some rules about how big it can be. That's
12 fine. We fit within the size capacities and
13 everything. So, I built the lunch counter and I
14 didn't get a business licence right away. We just
15 opened. Eventually, the bylaw came by and said, you
16 know, 'You guys need to have a business licence.' So,
17 I applied for it, and one of the first steps is a PPR,
18 preliminary project review. That's where they check
19 your zoning. And it came back declined. And I'm
20 like, 'That's really weird.' It says on the E1 zone
21 that's available online that you can have an eating
22 establishment in this area. I talked to them and they
23 said, 'There's a -- there's another zoning bylaw from
24 50 years ago called the Leaside Industrial Park Zoning
25 Bylaw,' and that one doesn't allow restaurants. So,

1 I'm trying to get my head wrapped around, you know,
2 what's going on with these two different zoning
3 bylaws, and I finally got it out of them that when
4 they amalgamated all the small city zoning bylaws
5 together, there was a whole bunch of appeals made
6 because people didn't like the changes to the zone.
7 So, they went through, like, I think thousands of
8 appeals. Even back in 2016, all the appeals were
9 done. It was that they were waiting for something in
10 their process to strike the old zoning bylaws and
11 fully shift to the new zoning bylaw, which, again,
12 prohibits a restaurant -- sorry, permits a restaurant
13 in our area. So, I went to court, paid some fines for
14 operating without a licence, and it -- they never took
15 enforcement action against me. It was like the fines
16 that I was paying were, you know, about equal or even
17 a little bit less than the cost of the business
18 licence itself, but they never came down on me. They
19 never tried to stop us from operating. This -- it's
20 been the same situation since 2016. It's been four
21 years. They never came and tried to shut us down.
22 But when John Tory said, 'Throw the book at him,' I
23 think that's what they're doing now. So, they want to
24 make it impossible for me to operate. And as of
25 today, it's Wednesday -- what is it? Wednesday,

1 February 3rd. This is our last day that we can
2 operate in Leaside. They said they're going to take
3 legal action against the landlord if we're open
4 tomorrow. Landlord's not willing to take any heat.
5 He doesn't like pushing the limits like I do. So,
6 we've got to comply. This is our last day today for
7 takeout at Leaside, and this has a big impact on our
8 operations. We're going to move to a pre-order
9 delivery only model. So, basically, back to catering,
10 like we did with Stoke Stack BBQ from 2013 to 2016.
11 On Fridays, Saturdays and Sundays we're going to be
12 delivering as usual across the GTA. I've dropped the
13 minimum down from 75 bucks to 50 bucks, so you can
14 buy, like, a pound of brisket and a pound of ribs and
15 we'll deliver it. Or, you know, a pound of brisket
16 and a couple quarts of sides. Yeah, starting
17 tomorrow. Aurora, we're going to reduce -- that one's
18 still legally operating. They don't need business
19 licences up there, which -- by the way, it's just a --
20 like a \$500.00 permit from the city. It's kind of a
21 tax grab, whatever. I don't really have a big issue
22 with business licences one way or another, but in
23 Aurora, they don't even have them. Like, it was
24 nothing to do with health or anything. So, for the
25 people who are like, 'He's been operating without a

1 business licence. Get him, ' you don't know anything
2 about business licences. They don't really mean
3 anything. It's just a little -- a little check by the
4 municipality. You'd think I'm not paying my taxes or
5 contributing to soc -- to the economy because I don't
6 pay this \$500 licence. It's like -- you know, we did
7 over \$1 million in payroll last year, and that means,
8 you know, \$100,000.00 in payroll tax. So, the \$500.00
9 for the little paper, in my opinion, it's -- you know,
10 it's not that serious of a thing, but -- anyway, what
11 -- whatever. Enough said about that. Aurora is going
12 down to lunch only Friday, Saturday and Sunday.
13 Etobicoke is closed for now until we get the building
14 permit and everything figured out over there. And
15 Leaside lunch service is done after today. We'll just
16 be doing deliveries Friday, Saturday and Sunday. Now,
17 there is some light at the end of the tunnel. We have
18 a way to get back operating. You know, hopefully in
19 the next couple of weeks get all these, you know,
20 change of use permits and business licences and
21 everything figured out. That's going to be top
22 priority for the next few weeks. In the meantime,
23 please place a pre-order for delivery if you want to
24 have some of our food in -- anywhere through the GTA.
25 Yeah, I think that's it. Nice chatting with you guys.

1 Hope you make some pre-orders and you enjoy all our
2 anti-lockdown content that I'm going to be posting.
3 Have a great one. Thanks for listening."

4 *** VIDEO ENDS ***

5 BY MR. GREEN:

6 18. Q. Mr. Skelly, are you texting or emailing
7 someone in the middle of your cross-examination?

8 A. No, I am not.

9 19. Q. Very good. Your Leaside --

10 A. May I --

11 20. Q. -- location --

12 A. -- ask what ---

13 21. Q. -- has operated -- pardon me?

14 A. Can I ask what gives you that
15 impression, that I'm texting or emailing?

16 22. Q. No. Your Leaside location has been
17 operating without a business licence for four years,
18 is that correct?

19 MR. CHAND: Refused.

20 --- REFUSAL NO. 2

21 MR. GREEN: What's the legal basis for the
22 refusal?

23 MR. CHAND: It's completely irrelevant.

24 Move on.

25 BY MR. GREEN:

1 23. Q. Mr. Skelly, you said in the video it
2 was no big deal. Why don't you just get a licence?

3 MR. CHAND: Refused.

4 --- REFUSAL NO. 3

5 BY MR. GREEN:

6 24. Q. Mr. Skelly, do you have a licence for
7 your food truck?

8 MR. CHAND: Refused.

9 --- REFUSAL NO. 4

10 BY MR. GREEN:

11 25. Q. Mr. Skelly, I'm going to show you
12 another video. Hold tight. I haven't asked you any
13 questions about it yet. Mr. Skelly, is that your face
14 on the screen there?

15 A. Yes, it is.

16 26. Q. I want you to listen to it. When
17 you're finished listening, I'm going to ask you some
18 questions.

19 *** VIDEO BEGINS ***

20 "My restaurant in Leaside, since that
21 defiance in November, the bylaw, police, fire
22 department, building department, zoning guys have been
23 at my restaurant, like, at least 100 times. It was
24 crazy. The bylaw was pulling up across the street,
25 blocking my neighbour's property, leaving the trucks

1 parked out on the road, leaving their cars idling.
2 Just costing the taxpayers a fortune just monitoring
3 my place, because that one was also operating without
4 a business licence. So, it hasn't been filed yet but
5 we're going to be filing a constitutional challenge
6 regarding all that excess force that was applied at my
7 Leaside location, because that was never an issue.
8 For the last five years we were operating without a
9 business licence. I went to court quite a few times.
10 It was never a big issue for the city until now. So,
11 they went after my landlord and said, 'If this guy
12 keeps operating, we're going to take you to the
13 provincial court.' The landlord said, 'Stand down or
14 you're going to be evicted,' so I said, 'Okay.' So,
15 we put a food truck outside, just so -- to keep some -
16 - the last couple people there employed, right? Just
17 to keep the -- keep the fire burning a little bit.
18 The bylaw came by, said, 'You need a licence for the
19 truck.' I said, 'Fuck you. I'm not buying your
20 licence.' Like, the -- just out of principle, right?
21 It's like a \$700.00, \$800.00 licence, but they've
22 spent the last six months just surrounding my place
23 with their authorities trying to find all these
24 violations. As if I'm going to give you \$700.00.
25 There's not a chance. So, we donated that" ---

1 "Right. The hundreds of thousands of
2 taxpayers' dollars --

3 "Yeah."

4 "-- being wasted."

5 "No way. I'm not supporting this
6 establishment anymore. The same establishment that's
7 trying to put me out of business, I'm not giving them
8 any money. Not a chance. Never again. So, we -- I
9 didn't get the licence. We donated the money to
10 charity. And they tried everything that they could do
11 to -- you know, to stop me from operating that food
12 truck. And again, the only reason for keeping that
13 thing there was just to keep the last five or six guys
14 at my restaurant employed. Like, I figured there'd be
15 a pause in the business until after my court case.
16 So, I said, 'Let's put the food truck there. Let the
17 last couple of guys who want to work work.' These
18 guys could go on CERB. They don't want to. They want
19 to be in there. They want to work. So, the city came
20 by and threatened to impound the vehicle because where
21 it was parked in my parking lot was apparently an
22 encroachment on their property, despite being in my
23 parking lot. So, they drew out some line based on the
24 zoning and said, 'You're over this line. We're going
25 to impound your vehicle.' So, we snug the food truck

1 right up against the building, and they came by the
2 next day and they busted out their tape measure and we
3 were two inches inside the line, so we were allowed to
4 keep going. They couldn't physically remove the
5 vehicle. So, they gave me some summons for not
6 operating with a -- or for operating without a
7 business licence, and that's fine. We'll take that to
8 the provincial courts and deal with it there. Pradeep
9 Chand, my -- one of my lawyers on my team, he's taking
10 care of that for me. So, then they went after the
11 owner of the food truck and said, 'You need to -- you
12 need to make this guy stop or else we're going to
13 repossess the vehicle.' So, he just signed the
14 vehicle over to me. I bought it from him and now they
15 have to go after me for those issues. So, we're kind
16 of operating there. We're selling, like, some
17 sandwiches and chilli and fries and stuff like that at
18 the food truck in Leaside. That's -- yeah, that's
19 where we're at today."

20 *** VIDEO ENDS ***

21 BY MR. GREEN:

22 27. Q. Mr. Skelly, is it not a good enough
23 reason to get a business licence for your food truck
24 that the law requires it?

25 MR. CHAND: Refused.

1 --- REFUSAL NO. 5

2 BY MR. GREEN:

3 28. Q. Mr. Skelly, is it not a good enough
4 reason for you to get a business licence for your
5 Leaside location that the law requires it?

6 MR. CHAND: Refused.

7 --- REFUSAL NO. 6

8 BY MR. GREEN:

9 29. Q. I'm going to show you a webpage, Mr.
10 Skelly. Give me a moment to put it up. Do you
11 recognize this webpage, Mr. Skelly?

12 A. Yes, I do.

13 30. Q. This is the Adamson Barbecue webpage.
14 Under the heading, "Support the BBQ Rebellion," do you
15 see that?

16 A. Yes, I do.

17 31. Q. On this webpage you sell merchandise,
18 like a \$60.00 hoodie that says, "Risk it for the
19 brisket." Correct?

20 MR. CHAND: Refused.

21 --- REFUSAL NO. 7

22 BY MR. GREEN:

23 32. Q. How much profit do you make on the sale
24 of each \$60.00 hoodie, Mr. Skelly? What --

25 MR. CHAND: Refused.

1 --- REFUSAL NO. 8

2 BY MR. GREEN:

3 33. Q. -- does it cost you to acquire that
4 hoodie?

5 MR. CHAND: Refused.

6 --- REFUSAL NO. 9

7 BY MR. GREEN:

8 34. Q. I'm going to show you something else,
9 Mr. Skelly. Just hold on a moment. Mr. Skelly, for
10 someone who is really eager to take on a
11 constitutional challenge, you don't seem willing to
12 answer any questions.

13 MR. CHAND: Don't answer that. Refused.

14 --- REFUSAL NO. 10

15 BY MR. GREEN:

16 35. Q. Don't answer that? Mr. Skelly, you
17 don't want to -- you don't want to tell your side of
18 the story now that you have your platform?

19 MR. CHAND: If you have any questions
20 involving Mr. Skelly's affidavit, please ask them.

21 BY MR. GREEN:

22 36. Q. I'm going to show you another document,
23 Mr. Skelly. Hold on tight. Can you see this GoFundMe
24 page on the screen, Mr. Skelly? Do you see that?

25 A. Yes, I see it.

1 37. Q. It says, "This is a fundraiser
2 organized on behalf of Adam Skelly." That's you,
3 isn't it?

4 A. Indeed.

5 38. Q. Your Adamson Barbecue legal defence
6 fund raised \$337,622.00, correct?

7 MR. CHAND: Refused.

8 --- REFUSAL NO. 11

9 MR. GREEN: What possible legal basis could
10 there be for refusing that question?

11 MR. CHAND: I'm not going to educate you on
12 your remedies. I've refused the question. If you
13 wish to bring a motion to have him compel his -- the
14 questions that you've asked, please do so. You have
15 my answer. He's refused the question. Move on.

16 MR. GREEN: We'll mark this as Exhibit A to
17 this examination.

18 --- EXHIBIT NO. A: GoFundMe page.

19 BY MR. GREEN:

20 39. Q. Mr. Skelly, I have to say, I'm
21 surprised that you refuse all the questions, and you
22 have a lot to say to your Instagram followers but to
23 the court you don't have anything to say.

24 MR. CHAND: Is that a question or a
25 submission, sir? Which is ---

1 MR. GREEN: I've concluded my cross-
2 examination. I have no more questions for the
3 witness. Thank you.

4 MR. CHAND: Thank you, sir.

5

6 --- WHEREUPON THE EXAMINATION WAS ADJOURNED AT 1:27 P.M.

7

8

9 I hereby certify that this is the
10 examination of WILLIAM ADAMSON SKELLY, taken
11 before me to the best of my skill and
12 ability on the 31st day of May, 2021.

13

14

15

Emily Pennacchio - Court Reporter

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22

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24

January 1, 1990 and are not certified without the

25

original signature of the Court Reporter

Adamson BBQ Legal Defence Fund

EXHIBIT No. A
 EXAMINATION OF
William Adamson Skelly
 HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO **VS** ADAMSON BARBECUE LIMITED ET AL.
 DATE 5/31/21
 NETWORK COURT REPORTING

\$337,622 raised

This fundraiser is no longer accepting donations. If you are the organizer, beneficiary, team member, or donor, [sign in](#) to see additional information.

<https://gofund.me/adab01f7>



Barry McNamar is organizing this fundraiser on behalf of Adam Skelly.

Created November 25, 2020

Accidents & Emergencies

Organizer and beneficiary



Barry McNamar
Organizer



Adam Skelly
Beneficiary

Contact

Created November 25, 2020

Accidents & Emergencies



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Court File No. CV-20-00652216-000

ONTARIO
SUPERIOR COURT OF JUSTICE

B E T W E E N:

HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO

Applicant/Respondent

- and -

ADAMSON BARBECUE LIMITED and
WILLIAM ADAMSON SKELLY

Respondents/Applicants

I N D E X O F P R O C E E D I N G S

DESCRIPTION	PAGE NO.
DR. BYRAM W. BRIDLE, Affirmed	5
EXAMINATION BY MR. RYAN:	5

I N D E X O F E X H I B I T S

--- EXHIBIT NO. 1: Slide deck authored by Dr. Byram Bridle.....	188
--	-----

I N D E X O F U N D E R A D V I S E M E N T S

REFERENCE NO.	PAGE NO.
--- UNDER ADVISEMENT NO. 1	167
--- UNDER ADVISEMENT NO. 2	168

I N D E X O F R E F U S A L S

REFERENCE NO.	PAGE NO.
--- REFUSAL NO. 1	12
--- REFUSAL NO. 2	21
--- REFUSAL NO. 3	23
--- REFUSAL NO. 4	91

--- REFUSAL NO. 5103
--- REFUSAL NO. 6104

1 --- UPON COMMENCING AT 10:05 A.M.

2 DR. BYRAM W. BRIDLE, Affirmed

3 EXAMINATION BY MR. RYAN:

4 1. Q. Good morning, Dr. Bridle.

5 A. Good morning.

6 2. Q. So just before we went on the record,
7 you were -- you affirmed to tell the truth in this
8 cross-examination, is that right?

9 A. That is correct.

10 3. Q. And you've affirmed two Affidavits in
11 this proceeding?

12 A. That is correct.

13 4. Q. And do you have them both with you
14 today?

15 A. I do.

16 5. Q. Could you turn up your Reply Affidavit,
17 and specifically page 4, using the bolded numbers in
18 the lower right of your report?

19 A. Okay, I'm just going to that report
20 now. Okay, just give me one moment, actually. I had
21 -- I had this in my file, but what's coming up is my
22 first report.

23 6. Q. That's fine. Take your time. I can
24 also put it on the screen, if that would be easier for
25 you.

1 A. At the moment, that would be, if you
2 don't mind.

3 7. Q. So do you see my screen, sir?

4 A. Not yet. It says you've started
5 screen-sharing, but -- and now that's disappeared.

6 8. Q. Let me try again.

7 A. Okay. Yes, I see your screen. I see
8 page 7.

9 9. Q. And you recognize this from your Reply
10 Affidavit?

11 A. Yes, I do.

12 10. Q. So at the top of this page, you refer
13 to "Incident Number 1", in which a senior member of
14 the administration of your university held a meeting
15 berating you, is that right?

16 A. That is correct.

17 11. Q. And who was that senior member?

18 A. I would like to keep that confidential,
19 for the reason that I've stated in here. This is
20 somebody who's in the ballpark of my age and,
21 therefore -- and I'm a tenured faculty member at the
22 University of Guelph.

23 And the reality is we will be -- they have
24 potential -- potentially substantial influence over my
25 career, and over things that I am able to do as a

1 researcher and academic faculty member, and I really
2 don't want to risk having any -- any adverse --
3 potential adverse interactions by revealing their
4 name.

5 It could have -- it could potentially have a
6 negative impact on me for the remainder of my career.

7 12. Q. Did this person tell you to keep the
8 meeting confidential?

9 A. They didn't explicitly state that, no.

10 13. Q. And this is a person in the College of
11 Veterinary Science?

12 A. No.

13 14. Q. Elsewhere in the University of Guelph?

14 A. Yes.

15 15. Q. And when was this meeting?

16 A. This meeting was in December.

17 December, 2020.

18 16. Q. You didn't mention this meeting in your
19 first Affidavit in this proceeding?

20 A. No, that is correct.

21 17. Q. The meeting ---

22 A. To follow ---

23 18. Q. Go ahead.

24 A. Yeah. So to follow through on that,
25 you are correct. The reason why I mentioned it here

1 is because much has happened -- much occurred, in
2 fact, since that -- like, my first Affidavit was
3 submitted.

4 And that's what I'm trying to highlight
5 here. There has been a remarkable silencing of
6 scientists and physicians, it seems, within Ontario,
7 who simply are trying to address the public --
8 questions coming from the public, and addressing them
9 based on scientific facts.

10 Sometimes this messaging is misconstrued,
11 even though it's based on science, as, you know, being
12 appropriate -- inappropriate in the context of public
13 messaging. But again, these are scientific facts.
14 We're dealing with a situation here, especially when
15 we look at the vaccines.

16 These are experimental vaccines, right?
17 They've been approved for emergency use only. And,
18 therefore, fully-informed consent is very important.
19 And so the re -- there's a couple of things that have
20 happened.

21 First of all, I've been involved with
22 approximately 150 media engagements, and that's
23 largely because I have garnered a reputation within
24 Ontario of being a scientist who will bluntly and
25 factually answer questions that the public has. And

1 so as a consequence, I've been sought after by a lot
2 of members of the media to ask me questions.

3 The messaging -- a consistent messaging that
4 I keep getting is that, unfortunately, they're finding
5 that a lot of people -- that they're not -- they're
6 feeling they're not getting fully -- full, balanced,
7 scientifically-justified answers to a lot of
8 questions. And I guess I've garnered a reputation for
9 that.

10 And the other thing that's happened, as
11 well, is I have been contacted now -- on a daily
12 basis, I'm contacted by a large number of members of
13 the lay public. I am receiving phone calls, I'm
14 receiving e-mails on a regular basis, and they're
15 telling me the same thing: That they feel that they
16 need -- that they're desperate to find somebody that
17 they feel will just give them, again, balanced,
18 objective answers that are founded in the scientific
19 literature, from somebody who's been following the
20 accumulation of the scientific literature underpinning
21 COVID-19.

22 And so this is where my voice has come. And
23 what's been highlighted to me is that one of the
24 reasons that I'm one of the relatively few people
25 within Ontario who has been -- I mean, this is a

1 reason why I've been providing this public service of
2 just disseminating objective, you know, answers to
3 people's questions in the public.

4 But the reality is, like, I guess in my
5 situation, right, I'm at an academic institution, I am
6 a tenured faculty member, I am a public servant, and
7 so that's why I see -- a public servant at a publicly-
8 funded institution, so I see it as my duty to provide
9 objective, honest, fact-based answers to the public
10 when they ask them.

11 But what I've come to realize is that
12 outside of a tenured faculty member at an academic
13 institution, there's a lot of fear among many of my
14 colleagues. And so -- and especially what I want to
15 highlight, I have a lot of clinical colleagues, a lot
16 of physician colleagues.

17 And as one example I'd like to give you,
18 very recently the Ontario College of Physicians and
19 Surgeons issued a very harsh statement to the
20 physicians and surgeons throughout Ontario -- and I
21 can tell you, I interact on a weekly basis, actually,
22 with approximately twenty physicians from across
23 Ontario, as part of a larger group, and I can tell you
24 that there's a lot of fear that is circulated among
25 the physicians and surgeons, many of them in Ontario.

1 So, for example, they recognize -- and many
2 of my colleagues also tend to be involved in academia,
3 so several of them are clinician scientists and are
4 involved in clinical trials.

5 And so they understand, therefore, the vital
6 importance of what we call "fully-informed consent",
7 meaning that before people can receive any kind of
8 experimental procedure, which relevant in this case
9 is, for example, an experimental COVID-19 vaccine, is
10 they must have the full spectrum of pros and cons,
11 ideally based in solid scientific data. Meaning,
12 ideally coming from peer-reviewed scientific
13 publications.

14 And they're feeling right now that they
15 cannot give fully-informed consent, because if they
16 speak about the cons related to the COVID-19 vaccine,
17 they're worried that they are going to be possibly
18 facing disciplinary action. And so that's why I
19 brought up this scenario here, to highlight that even
20 -- even myself as a tenured faculty member.

21 So many -- so many have the idea that
22 tenured faculty members and retired physicians can
23 potentially freely speak up. And what I wanted to
24 highlight here is that even in our situation, although
25 relatively protected and able, therefore, to speak,

1 you know, fairly objectively, even a situation like
2 myself, I haven't been totally free, I have felt
3 intimidated, and I have felt bullied.

4 And it's worse for actively-practising
5 health professionals. That's the message that I was
6 meaning here. And a lot of this has developed -- so,
7 for example, this message that came from the Ontario
8 College of Physicians and Surgeons was issued after my
9 first report. And that's why I felt it was very
10 important to get this message in here with the second
11 report.

12 19. Q. Who were the two colleagues that were
13 at this meeting in December?

14 A. Again, I -- I do not want to name them.
15 They -- they -- they have asked to remain anonymous.
16 Again, this is -- unfortunately, this is the scenario
17 we find ourselves in, which is exactly why this page
18 7, this paragraph that's before us now, exists. They
19 -- they're concerned about their -- about their
20 careers.

21 --- REFUSAL NO. 1

22 BY MR. RYAN:

23 20. Q. And they were at that meeting because
24 they share your views and had also been doing media
25 appearances?

1 A. No, not necessarily. One does share
2 many of my views, because they -- they've also been
3 following the science and they understand the science.
4 The other one shares certainly a large proportion of
5 my views, as well. That is not why we were at this
6 meeting, in fact.

7 We were at this meeting because we are
8 collaborating, to a certain extent, in our scientific
9 research. And that was the -- the initially-stated
10 purpose of the meeting, was to discuss our research
11 project.

12 21. Q. And what did this senior administrator
13 mean when they said your media engagements were being
14 "monitored"?

15 A. What they told me is that they
16 personally were monitoring them. They wanted to make
17 it clear to me that they were keeping an eye on the
18 messaging that I was providing to the media when I was
19 answering my questions -- when answering the questions
20 that the journalists and radio show hosts were asking
21 me.

22 22. Q. And what media appearances did they
23 refer to in this meeting?

24 A. So at this point, again I've had about
25 150 media engagements approximately over the last

1 sixteen months, so I -- I'd have to look back through
2 my historical records and the dates. But one in
3 particular is a short time before this, I had appeared
4 in a national news show to answer questions about the
5 vaccine roll-out.

6 Again, as I mentioned, this was in December.
7 And so there was a lot of interest in asking me
8 questions because of my expertise as a vaccinologist.
9 They were -- the media was interested in asking me a
10 lot of questions about these novel vaccines and about
11 the -- about the roll-out.

12 And so -- so there were -- then at that
13 point, I had done, you know, again, many media
14 engagements. But I guess, you know, the key -- the
15 key trigger that -- that seemed to be cited was this
16 national news show that I was interviewed on.

17 23. Q. So there are tenured faculty members at
18 other public institutions in Ontario who are
19 scientists, who aren't being as candid as you are
20 about the real science?

21 A. I can't comment on other scientists. I
22 can only -- really only comment on myself. Again, I
23 -- I mean, everybody has their own personal
24 philosophy. I am a -- this has always been my
25 approach. It's the same thing with my students. I

1 have an open-door policy from a research team.

2 Anybody as a -- as a -- as a faculty member
3 at an academic institution, I recognize that during
4 the training that I had, all of my training was done
5 in Ontario. What a lot of people don't realize is
6 that, you know, although we pay tuition and we talk
7 about high tuition costs for students, the reality is
8 our training is subsidized up to about 70 percent by
9 -- by tax dollars, right?

10 It comes through the government --
11 government funding. So my education was largely paid
12 for; my training, the expertise that I've gained, was
13 largely funded through taxpayer dollars; my salary
14 right now is being largely funded through taxpayer
15 dollars; and I work at a publicly-funded institution.

16 So, again, my philosophy has always been
17 that I have an open-door policy for anybody who wants
18 to ask me any questions that are relevant to my
19 expertise, and I feel it's my, you know, personal duty
20 to Ontario and Ontario taxpayers to give them the --
21 the best answers that I can, that are founded based
22 on, ideally again, published scientific data.

23 And if published scientific data isn't
24 available, then I -- then I'm certainly willing to
25 tell people that I'm -- I'm willing to speculate in

1 giving them answers based on sound scientific
2 principles.

3 24. Q. How many public universities are there
4 in Ontario?

5 A. I'd have to check that. Off the top of
6 my head, I'm not aware of how many there are.

7 25. Q. Are there at least fifteen?

8 A. Again, I'd have to check the numbers
9 exactly. I don't have the precise numbers. I mean,
10 off the top of my head, I can list -- if you want, I
11 can give you a minimum number. So, for example, I
12 know there's my university, University of Guelph;
13 locally, is University of Waterloo; Laurier
14 University; University of Toronto; York University;
15 University of Western Ontario; Laurentian University;
16 Brock University -- I mean, I don't have to go through
17 the whole list.

18 But so, therefore, I'd be confident in
19 staying there's -- there's -- there's certainly more
20 than eight universities in Ontario. But in terms of
21 precise number, I'd -- I would have to look that up.
22 That's not something that I have on the top of my
23 head.

24 26. Q. And there's tenured faculty at each of
25 those universities, is that right?

1 A. Again, I can't comment with confidence.
2 There -- there is a move in some academic institutions
3 -- a general move away from tenure and hiring more and
4 more faculty based on contracts. So certainly the
5 majority of publicly-funded universities still use the
6 tenure system, but there's the theoretical possibility
7 that there may be academic institutions that are --
8 that are working towards phasing that out or...

9 And so I can't state with confidence. All I
10 can state with complete confidence is that my
11 institution, University of Guelph, does use the tenure
12 system.

13 27. Q. You're not the only tenured scientist
14 at a publicly-funded institution in Ontario?

15 A. You're correct, I certainly am not.
16 There are many tenured faculty members in Ontario.

17 28. Q. And there are tenured scientists at
18 publicly-funded institutions in Ontario, who aren't
19 saying what you're saying about COVID?

20 A. I honestly don't know. I haven't been
21 -- I haven't been following the -- I mean, I have -- I
22 personally -- I mean, I provide these media
23 engagements. One of the things that I want to point
24 out to you is I find that the messaging coming through
25 the media in general is very different than the

1 messaging that I see when I follow the scientific
2 literature.

3 So I actually have actively been avoiding a
4 lot of the media coverage, because I find that many,
5 many -- I mean, I would argue that -- so I guess an
6 accurate statement would be "the vast majority". I
7 can't say all, necessarily, because, again, I haven't
8 seen all the media presentations.

9 But the vast majority of the data that's
10 presented through the media is not being presented
11 side-by-side with clear references to scientific
12 publications. And, therefore, I -- as a scientist, I
13 can't validate. So, for example, one of the things
14 I'm often asked to answer, there are questions based
15 on, for example, data that's been released by a
16 vaccine manufacturer in a media release.

17 This is one of the most frustrating things
18 as a scientist during this pandemic, because data
19 presented in a media release is not legitimate, you
20 know, peer-reviewed scientific data. And so I really
21 can't -- I routinely say, "I can't comment on that".
22 We have a scientific process that needs to be
23 followed.

24 And so, therefore, the data in the media is
25 -- is up for debate. And so when they access those

1 references, I don't know. So I haven't been following
2 the media messaging, because I don't find it, as a
3 scientist, particularly helpful.

4 Instead, what I have been doing is
5 following, on a daily basis, the accumulation of
6 scientific data in the scientific literature. So, as
7 a consequence, I've seen, actually, very few
8 scientists interviewed through the media and I can't
9 comment. I mean, maybe they share my -- my thoughts,
10 maybe they don't.

11 But, again, I can't comment on what other
12 people are thinking nor the messaging that they're
13 relaying to the media. I can only comment on -- on
14 the messaging that I'm relaying to the media.

15 29. Q. You said that at least one of the
16 colleagues at the meeting in December shares your
17 view. Do you remember that?

18 A. Yes, I do.

19 30. Q. And ---

20 A. Actually, just -- just to correct you,
21 I said shares many of my views. I can't guarantee
22 that they share all of my views. We're all
23 independent scientists and critical thinkers. So I
24 would be surprised if there's a colleague who shares
25 100 percent of my views.

1 That's part of the scientific process, is
2 active debate of the science. But certainly where
3 there is a large body of scientific evidence in favour
4 of a particular answer to a scientific question, yes,
5 they share those views, yes.

6 31. Q. They share the views on COVID-19 or the
7 subject of this meeting?

8 A. When it comes to the science of COVID-
9 19, yes, they share, again, many of my views where the
10 science -- where the science supports the views that
11 we hold.

12 32. Q. And are they doing media engagements?

13 A. So what I can tell you is they did
14 early on in the pandemic, but due to fear of -- of,
15 well, due to -- yeah, due to fear of intimidation and
16 potential impacts -- negative impacts on their career,
17 they stepped down from making media engagements.

18 33. Q. Do they have tenure?

19 A. In that case, this -- this individual
20 does, yes.

21 34. Q. And that's someone who's in the
22 Department of Pathobiology with you?

23 A. That, I would prefer not to answer,
24 because, again, they have asked me to -- if they can
25 remain anonymous.

1 --- REFUSAL NO. 2

2 BY MR. RYAN:

3 35. Q. One of the reasons you're sought out
4 for queries from lay people, that you referred to, is
5 because you will give a candid, balanced view of the
6 science on these issues, is that right?

7 A. That's what many of the individuals
8 have told me and they -- they have expressed some
9 level of desperation in trying to make informed
10 decisions and said that -- the reason why -- that has
11 been cited why several of them have come to me, is
12 they feel that -- in trying to make these fully-
13 informed decisions, they feel that they are not
14 getting the full spectrum of scientific data, so that
15 they can properly weigh the pros and cons.

16 Yes, that's a common message that I've
17 received from members of the lay public.

18 36. Q. And are they right when they tell you
19 that?

20 A. I -- I can't -- I have no idea who
21 they've consulted prior to contacting me, so I cannot
22 comment on whether they are right or wrong. I can
23 only comment on the reasons that some of the -- these
24 members of the lay public have cited when contacting
25 me.

1 37. Q. So when you included that information
2 in a previous answer, you -- you neglected to tell us
3 that you have no idea whether those statements are
4 true?

5 A. Well, I -- I can't confirm. I don't
6 know the interactions that they had with the people
7 before. When I made that statement before, what I was
8 stating is that was the reasons they were citing for
9 contacting me. But they were telling me that this is
10 a reputation that I had, and, you know, they're
11 welcome to hold that opinion.

12 But I can't comment at all on who they
13 contacted before, nor can I comment (sic) on the
14 validity or lack of validity of information they
15 received, nor can I comment on the breadth of the
16 information that they received prior to contacting me.

17 38. Q. So on this page, you refer to "Incident
18 number 2". Do you see that?

19 A. Yes, I do.

20 39. Q. And who was the senior colleague who
21 told you to be careful about your public messaging?

22 A. If I could say -- if I was going to say
23 that, I would have said it in this report. But as I
24 pointed out, if you read further along in the text, I
25 do not feel comfortable revealing the name of this

1 individual, as well.

2 This is a senior colleague who, although
3 senior, again doesn't differ a large amount in age,
4 and, therefore, we will be working as colleagues for
5 much of the remainder of my career. And this is
6 somebody again who could have some influence on -- on
7 the nature of my career for -- for the rest of my time
8 working at the University of Guelph.

9 So for that reason, I don't feel comfortable
10 revealing their name. I -- I do not want -- again,
11 this is what I -- this is what I'm highlighting here.
12 There's -- even as a tenured faculty member, I have
13 been placed in some uncomfortable situations.

14 And I'm sharing the information here, but I
15 think I -- I want it to be respected that I -- I don't
16 want my career impacted negatively by simply answering
17 the public's questions objectively. And -- and so I
18 won't reveal this -- this name either.

19 --- REFUSAL NO. 3

20 BY MR. RYAN:

21 40. Q. You're concerned that your evidence in
22 this proceeding could lead to negative career impacts
23 for you?

24 A. No, not at all. Not the evidence. Not
25 the evidence whatsoever. All of the evidence that

1 I've provided here -- I mean, if you go to my list of
2 references, you'll see that it's extensive.

3 The comments that I make -- and the comments
4 that I make when I'm answering any questions, whether
5 it be from the lay public or from members of the
6 media, I'm answering to the best of my ability, as
7 objectively as I can, and based on the science, I -- I
8 cite references, I like to show scientific papers, I
9 like to show scientific data to individuals, much like
10 -- just much like I have in these reports, right?

11 I've presented figures, I've presented
12 examples of data, I've presented lots of references.
13 And so this is nothing to do with the evidence. I'm
14 totally confident on the evidence.

15 I mean, as a scientist, the reality is:
16 Even individuals who may have differing views, for
17 whatever reason, be they political or other, when it
18 comes to the actual science, so even these individuals
19 who have done this, when we talk about the science and
20 we talk -- and we are able to show one another,
21 publish scientific literature, we can readily come to
22 agreement.

23 And it's this way. This is my philosophy as
24 a scientist. And these two colleagues, you know,
25 respect this, as well. So when they have challenged

1 me in these scenarios, it hasn't been based on the
2 science at all.

3 And, in fact, this -- so this is the way
4 that I function as a scientist, just to explain. If
5 there's -- so any time there's a legitimate scientific
6 question and we have no data, the best we can do is
7 speculate based on the best historical data that's
8 available.

9 But it's pure speculation. We can't state
10 with any confidence whether the answer to that
11 particular question is yes or no. Then that -- so the
12 proper thing is, and the scientific method, is once a
13 valid question has been posed, before making any firm
14 decisions and acting on those decisions -- because the
15 potential danger of acting on decisions that are based
16 on assumptions, is those assumptions may be wrong.

17 So the proper scientific method, then, is
18 once the question is posed, is to conduct properly-
19 designed scientific experiments to generate answers to
20 those questions. Now, the reality is, when research
21 is done, I mean, the ideal outcome is then anybody
22 conducting research to address that question, always
23 comes up with the same answer.

24 If that's the case, then it's very easy to
25 come to agreement among scientists, because there is

1 only one consistent answer coming up within the
2 research studies that are being conducted. However,
3 sometimes you get research studies -- and, obviously,
4 it depends on the design of the study, and there's
5 many different reasons why people might get differing
6 outcomes.

7 And in that case, for example, if you have
8 one study that says yes and one study that says no,
9 then a scientist who's being objective about that
10 would look at it and say there's some legitimate
11 scientific evidence on both sides.

12 So then what you do as a scientist and as a
13 scientific community is we then need to conduct
14 further experiments to try and clarify this emerging
15 scientific debate. And then the proper thing to do
16 within the -- as a scientist, would be to go with the
17 weight of the evidence. So now it's sort of like a
18 teeter-totter, a balance.

19 And so, for example, if you eventually
20 accumulate twenty-five studies that have been done to
21 address that question, right, and let's say just say
22 for the sake of argument, you know, twenty-three are
23 in favour of one answer and two of the other answer,
24 then as a scientist you have to follow the weight of
25 the evidence that has accumulated.

1 And so these scientific colleagues, I mean,
2 when it comes to the science alone, these are the kind
3 of dialogues that we have, and we can come to complete
4 agreement. We can disagree as individuals on things,
5 we can potentially disagree on certain viewpoints, but
6 it would not be -- a scientist would not be objective
7 -- and these two individuals are objective scientists,
8 right?

9 So we don't -- it's not that we disagree on
10 the specific science. If I put -- if I show them the
11 scientific evidence to support my side of scientific
12 debate, they will accept it, unless they can present
13 to me overwhelming scientific evidence that outweighs
14 it.

15 And if that's the case, as a scientist, I
16 have to, you know, objectively follow that. If
17 somebody can show me overwhelming scientific evidence
18 contrary to the scientific data that I have been
19 looking at, I'm willing to change my position.

20 41. Q. Sir, this is a legal proceeding, you
21 understand that?

22 A. Yes, I do.

23 42. Q. So everything you say today is your
24 evidence, in the lawyers' use of the term, do you
25 understand that?

1 A. Yes, I do.

2 43. Q. So you're concerned that if you
3 answered the question about who was the senior
4 colleague who told you to be careful, you're concerned
5 that that evidence would have a negative impact on
6 your career, is that what you're telling us?

7 A. Not that evidence, if I were to
8 publicly release their information, their name.

9 44. Q. So the reason you provide citations to
10 publications when you're talking about scientific
11 evidence, is because you like to provide the details
12 to your audience?

13 A. Both the details of the science, but
14 also to show them -- when I'm speaking, my job as a
15 scientist is not nec -- is to try and remove my
16 personal opinions, as much as possible, from the
17 answers, and instead focus on the objective scientific
18 evidence underlying those answers.

19 So that's my job as a scientist, so that's
20 where I go, is to try -- the reason why I provide the
21 scientific citations is to, again, make sure that --
22 you know, if people are seeking information to try and
23 make the most informed decisions that they possibly
24 can.

25 My belief as a scientist is that: Whenever

1 possible, it is always in people's best interests to
2 make decisions based on sound scientific data that's
3 gone through the rigorous scientific peer-review
4 process, which is designed to be as objective as
5 possible, so that they are making decisions based on
6 objective scientific data rather than people's
7 opinions, or speculations, or assumptions based on
8 historical scientific data.

9 45. Q. One of the benefits of providing
10 citations is that the reader can go find that article
11 independently and validate what you've said, is that
12 right?

13 A. That is correct.

14 46. Q. We can't validate that the events in
15 incident 1 and 2 in this page happened, because we
16 can't go ask the person who was at those meetings,
17 because you won't provide their identities, is that
18 right?

19 A. That is correct. And I have admitted
20 in here that that could, therefore, be viewed as
21 circumstantial evidence. I -- this is the situation
22 that we're in. That's the reality. I can't help
23 that. I recognize that, I -- if I could have, I would
24 have loved to have provided the names.

25 However, that is also why I was able to

1 identify two colleagues, albeit at very short notice,
2 because remember I was asked to -- I only -- I was
3 only given the weekend and had to take time away from
4 my family, in order to put this together.

5 But at short notice, I was able to find, as
6 you can see here, additional individuals to share
7 their stories. You also see -- for example, in the
8 letter that immediately follows this section here,
9 that individual also wanted their letter to be
10 anonymized, and I do hope that I did that properly.
11 For their sake, I was careful about that.

12 But you also see that there were two
13 colleagues -- scientific colleagues who were willing
14 to have their names stand. And I feel that that was
15 important, because you're correct. I recognize that
16 without naming the people here, that aspect of my
17 story could be deemed circumstantial.

18 But these other two letters from colleagues,
19 they -- they were willing to have their names stand,
20 so that they -- they are -- they are happy for you, or
21 the court, or anybody else who wants to, to contact
22 them about the information that's here.

23 They're aware that it's in here, they gave
24 me permission to put it in here. I specifically asked
25 if they're okay with having their names associated

1 with it; they stated that they are. Those two
2 individuals -- and so that would be Dr. Bonnie Mellard
3 and Dr. Stephen Pelech, they -- they are both happy to
4 talk to anybody about the content of their letters
5 here.

6 47. Q. You refer on this page to the "fear of
7 reprisal", do you see that?

8 A. Yes, I do.

9 48. Q. And who would bring about this reprisal
10 against these people, scientists, physicians, and
11 other regulated professionals?

12 A. Well, so, again, using myself as an
13 example, as I've stated, the potential fear of
14 reprisal is the fact that -- so when it comes to a
15 member of the administration in my university, there's
16 -- there's many -- many activities that I need to do
17 as a scientist that require sign-off by administrators
18 of my institution.

19 A good example would be often there are
20 competitions. There might be even -- you know, if
21 we're putting together a grant application, often
22 there'll be internal ranking -- rankings of grant
23 applications that take place by committees that are
24 put together, that will rank these applications
25 outside of my purview, right?

1 And so an individual, in theory, could have
2 influence over decisions that are made, therefore,
3 that are relevant to my career. So that's kind of --
4 that's the example. That's the kind of fear of
5 reprisal that I have. What has been stated to me by
6 several of my physician colleagues, what they're
7 particularly fearful of in terms of reprisal is being
8 called into a potential disciplinary hearing by the
9 Ontario College of Physicians and Surgeons.

10 49. Q. So your concern is that the reprisal
11 against you would be losing support for funding
12 applications, because you are telling the scientific
13 truth about COVID-19 in this proceeding and in media
14 appearances?

15 A. That's -- that's one -- one potential
16 way where reprisal could occur. And, yes, that that's
17 one potential outcome.

18 50. Q. What are the others?

19 A. Oh, the -- so I guess another example
20 -- so as a scientist, you know, peer review is one of
21 the processes that I mentioned and we -- our work has
22 to be reviewed by others. And if a scientist chose
23 not to use the objective approach -- now, typically,
24 that's why the peer-review process involves multiple
25 independent peer reviewers.

1 But that's another example where an
2 individual, should they wish to, could (inaudible) any
3 type of report, based on the, you know, peer review of
4 a report. So in science, the way science works is we
5 are -- we have to answer a lot -- we have to answer a
6 lot -- you know, to our colleagues.

7 And our colleagues keep us in check quite --
8 quite a lot, right, in terms of making sure that we're
9 adhering to strict scientific principles. But, you
10 know, they're individuals, as well, so should they,
11 for some reason, not take an objective approach, there
12 are ways that they could use that non-objectivity to
13 potentially have an influence on some of our
14 scientific activities.

15 One example -- one example -- a theoretical
16 example that I'll give you, is I serve on grant review
17 panels. So an example, I'm asked -- I've been asked
18 to serve a three-year term for our national scientific
19 granting agency, the CHR, the Canadian Institutes of
20 Health Research.

21 Because of my expertise, I serve in a couple
22 capacities, actually. I've done some service on the
23 Cancer Biology and Therapeutics Panel, but most of my
24 service has been on the Virology and Viral
25 Pathogenesis Panel.

1 And the competition for funding is -- is
2 very fierce. And there is -- the success rate now for
3 CHR grants is probably in the ballpark -- it averages
4 somewhere between 8 and 12 percent, depending on the
5 competition and on the exact amount of funding
6 available.

7 And so what I can tell you is that the way
8 the peer-review process works there is if -- unless
9 there is essentially universal agreement from all of
10 the reviewers that have been responsible for reviewing
11 a grant application, a grant application will not be
12 funded.

13 All it takes is being knocked down even --
14 even -- so we had to use a scoring system between 0.1
15 and 0.5, with increments of 0.1. So having one
16 dissenter, even if -- even if it's just a weak
17 dissenter for a particular application, it's certainly
18 enough to knock a score down out of the fundable
19 range.

20 And so that's the type -- that's the
21 theoretical situation, but it's one of these things
22 that, you know, scientists -- that we're aware of.
23 And so, you know, if some -- if a scientist were to
24 take that kind of approach, then they can, in theory,
25 have some negative influence on another scientist's

1 career.

2 51. Q. So you're not talking about submitting
3 research for peer review about COVID-19? The example
4 you're thinking of is where you submit unrelated
5 research and the reviewers hold it against you that
6 you've expressed objective scientific truth about
7 COVID-19, is that right?

8 A. What I'm giving are theoretical
9 examples, right? I mean, "fear of reprisal", that's
10 exactly what it is. It's fear of something happening
11 in the future. I can't comment specifically on what
12 those incidents might be nor what the content of the
13 research may be.

14 I have no evidence at this point in time
15 that any of the research that I have submitted or
16 grant applications, you know, have been treated
17 unfairly in any way, shape, or form. This fear that I
18 mention here, a fear of reprisal, this is -- this is a
19 fear of what could happen in the future.

20 So what I've given you is a couple
21 theoretical examples of what could happen in the
22 future. That's the best I can do. Because we're
23 talking about potential future incidents and not real
24 incidents that have happened historically, I can't
25 give any more specific details than that. Simply

1 theoretical examples.

2 52. Q. On this page, you mention your
3 "Department Chair", do you see that?

4 A. Yes.

5 53. Q. And that's the Department of
6 Pathobiology?

7 A. That is correct. And that's Dr.
8 Brandon Lillie, yes.

9 THE REPORTER: Sorry, Mr. Bridle -- Dr.
10 Bridle, can I just have the doctor's name one more
11 time? You're just -- can you just slow down when
12 you're speaking just a little for me while I take
13 notes?

14 THE DEPONENT: Yes, I will.

15 THE REPORTER: Thank you.

16 THE DEPONENT: Yes, so my ---

17 THE REPORTER: Thank you.

18 THE DEPONENT: Yes, so my Department Chair
19 is Dr. Brandon Lillie, L-I-L-L-I-E.

20 THE REPORTER: Great. Thank you.

21 THE DEPONENT: You're welcome.

22 THE REPORTER: And is it "Brandon" with an
23 "n"?

24 THE DEPONENT: Yes, B-R-A-N-D-O-N.

25 THE REPORTER: O-N. Great. Thank you.

1 THE DEPONENT: You're welcome.

2 BY MR. RYAN:

3 54. Q. And does your Department Chair agree
4 with your views on COVID-19?

5 A. We have not discussed that. We
6 recognize -- so what I -- what I say here is -- so my
7 Department Chair, Dr. Brandon Lillie; my college Dean,
8 and that is Dr. Jeffrey Wichtel; and our university
9 President, Charlotte Yates; and the Provost, as well,
10 of our university, have all -- I have met with them
11 all, you know, one-on-one -- well, I met with the
12 university President and Provost together.

13 And as I mentioned here, it's not to talk
14 about the science. What I'm -- what -- what they have
15 stated to me very clearly is that I -- they -- our
16 institution values freedom of speech, it values
17 academic freedom. These are -- these are pillars for
18 our institution.

19 And we have not talked about science per se.
20 But what they have stated very clear to me is that I
21 have every right to answer questions coming from the
22 public in the best way I see fit, and specifically
23 based on -- you know, based on if I'm providing
24 objective scientific answers to members of the public,
25 they've given me that blessing. It has nothing to do

1 with whether or not we agree on science.

2 55. Q. You haven't suffered any reprisals from
3 the people mentioned in this sentence?

4 A. No. In fact, like I said, that's what
5 I want to highlight here. One of the things that I
6 want to make sure, because of the preceding
7 statements, one of the reasons why I put this in here,
8 is I want to make sure, yes, that this isn't -- this
9 is not the -- it's not that the University of Guelph
10 in any way aims to silence any of their academic
11 members.

12 The university -- what I want to point out
13 here is that the, you know, key members of the -- of
14 our administration fully support and encourage the
15 valued tenets of academic freedom and freedom of
16 speech.

17 56. Q. And you haven't suffered any reprisals
18 from anyone else?

19 A. I -- I -- I have from members of the
20 public. So, for example, often when -- you know, I
21 mean, this is well established. So whenever anybody
22 is providing any information to the media, a good
23 example would be when information is published,
24 especially in the context of written stories, there's
25 often comment sections.

1 And in those comment sections, members of
2 the public are free to say whatever they like. And
3 you'll see when it comes to COVID-19, often very
4 quickly these comment sections get into these heated
5 debates between members of the public. But sometimes
6 the comments -- there are negative comments directed
7 at people quoted in these articles.

8 And so I have had cases of people making --
9 even though I don't know these individuals personally
10 and these comments are often anonymous, certainly
11 there have been comments that I have read that I would
12 consider to be negative comments and even potential
13 personal attacks, even though we don't know one
14 another personally.

15 You know, I would call them -- in some
16 cases, the comments are -- the comments are
17 inappropriate, they're unprofessional, and they're
18 disrespectful. So that would be another example.
19 But, yes, that's outside of the context of my academic
20 institution.

21 57. Q. You consider comments on a media
22 article concerning a tenured public academic to be a
23 reprisal?

24 A. Not necessarily a reprisal, but, again,
25 it's -- they're disrespectful and unprofessional.

1 58. Q. So the reference in this paragraph is
2 to "fear of reprisal", do you see that?

3 A. Yes.

4 59. Q. And none of the university officials
5 that you mention on this page have enacted any
6 reprisals against you?

7 A. That is correct.

8 60. Q. And no one else has enacted any
9 reprisals against you?

10 A. I can't comment on that, actually.
11 Again, because there are -- in academia, as with the
12 examples that I have given you, there are examples
13 where people could potentially enact reprisals without
14 my knowledge. And so I can't comment on that, right?

15 Again, when there's meetings held where I'm
16 not present, when there's decisions being made when
17 I'm not present, I have no idea how those decisions
18 are being made. I have no idea what the rationale is
19 that's being provided for those.

20 So I actually -- I honestly cannot answer
21 your question, because I'm not privy to many of the
22 decisions that these individuals that -- from whom I
23 do feel reprisal, I am not privy to the vast majority
24 of the work that they do here on campus.

25 61. Q. You don't have any evidence of any

1 reprisals against you professionally?

2 A. At this point, I have no evidence
3 whatsoever, no. Just the fear of potential reprisals.

4 62. Q. A fear that's based on no evidence to
5 date?

6 A. A fear that has no -- yes, no objective
7 evidence to date, yes. It's a fear of potential
8 future reprisal.

9 63. Q. You've referred a few times to a notice
10 from the Ontario College of Physicians and Surgeons.
11 Did you receive that as a member?

12 A. I'm not a -- I'm not a member of that
13 organization. I -- I do not hold an MD, I'm not a
14 physician, nor am I a surgeon. I actually saw that on
15 my own. Again, because I do daily research on
16 document -- you know, on trustworthy documents that
17 are issued regarding COVID-19, I actually saw this as
18 part of my own daily search. This came up and I read
19 that.

20 But certainly I've received numerous copies
21 of it from physician colleagues and I've been in many
22 meetings where this has been the subject of many
23 discussions.

24 64. Q. Your daily research includes statements
25 by professional regulators?

1 A. In terms of my literature search, yes,
2 I keep apprised of this. In terms of regulator --
3 again, my -- my job is not directly related to
4 regulation, development of regulatory policies. But
5 because I'm involved in medical research, yes, a lot
6 of the decisions made -- my research focuses primarily
7 on the pre-clinical and translational stages of
8 research.

9 And as a consequence, you know, my vision is
10 to have my research eventually translated into
11 clinical practice for the benefit of, you know, people
12 in Ontario and beyond. And so as a consequence, I do
13 have a keen interest for sure in medical regulatory
14 policies, yes, because they could potentially have
15 impact on the future outcome of my research program.

16 65. Q. Do you check the College's website
17 every day?

18 A. No, I do not.

19 66. Q. Did you first see the notice on the
20 College's website or somewhere else?

21 A. The first one I saw on the website and
22 then there was an update made to it where they added
23 some text, you know, prior to the original comment
24 that they made. And so I've seen both of those
25 versions on their website.

1 67. Q. How did you end up on that website, if
2 it's not part of your daily research?

3 A. Oh, I mentioned it is -- I do
4 literature searches. And as I mentioned, I -- I am
5 keen on knowing what regulatory policies are within
6 the context of medicine, because again that's the
7 ultimate future, you know, goal for my research, is to
8 get it into clinical practice.

9 So, yes, when I do my literature searches, I
10 -- yes, this came up on that literature search that I
11 did.

12 68. Q. What service was the literature search
13 run on that included a notice from the College of
14 Physicians?

15 A. It was a -- a Google search. I can't
16 remember the exact search terms, but it was just a
17 basic Google search.

18 69. Q. And that's Google Scholar?

19 A. Give me one moment, I'll see what ---

20 70. Q. Sir, you can limit your answers to
21 what's in your memory. We're not going to do research
22 on the fly during this cross-examination. Do you
23 recall whether that was a Google search or whether
24 that was Google.com?

25 A. Okay, it's whatever the default search

1 engine is for Google Chrome.

2 71. Q. And so when you say your "daily
3 literature search", that's not limited to peer-
4 reviewed articles?

5 A. No.

6 72. Q. That includes anything that's been
7 indexed by Google?

8 A. Yes.

9 73. Q. And that's how you conduct your daily
10 scientific research to make sure you're well-informed
11 of new important facts related to COVID-19?

12 A. That is not the sole way, no,
13 absolutely not. I -- for example, I would say, you
14 know, the dominant search engine that I would use for
15 much of my research would be PubMed, because I'm
16 wanting to acquire, again, solid, validated,
17 scientific information. So Google search ---

18 THE REPORTER: Sorry, sir, can I just have
19 the name of the website?

20 THE DEPONENT: Yes, PubMed, P-U-B-M-E-D.

21 And that's a ---

22 THE REPORTER: Thank you.

23 THE DEPONENT: That's a search engine of
24 peer-reviewed scientific and medical literature that's
25 run by the National Institutes of Health in the United

1 States.

2 THE REPORTER: Thank you.

3 BY MR. RYAN:

4 74. Q. And was the College's notice published
5 in PubMed?

6 A. No. It's not an indexed publication,
7 no.

8 75. Q. Now, what search terms do you use when
9 you're doing a daily Google search on COVID-19?

10 A. Oh, I could not give you a -- an
11 accurate, detailed list. It's huge. I mean, it's
12 enormous. It's anything to do with science that I'm
13 interested in. I think -- I can give you an example
14 of some of the search terms, but it would be a very
15 partial list.

16 So that would include "COVID-19", it would
17 include the full written term. That's the
18 abbreviation, so the "novel coronavirus disease that
19 emerged in 2019". Another search term would be "SARS
20 CoV-2". Another one would be "severe acute
21 respiratory syndrome coronavirus 2". Another one
22 would be "immunology". Another one would be
23 "vaccines". Another one would be "virology",
24 "viruses".

25 I mean, as an immunologist, I search all

1 kinds of things. So I would search on -- do searches
2 on, you know, a combination of terms, I'd be searching
3 on -- I mean, I have interest in every aspect of the
4 immune system, so it would include chondritic cells,
5 neutrophils, T cells, B cells, antibodies.

6 I mean, I could go on and on. I have no
7 idea. But as a scientist, I'm not limited to a
8 certain set of search terms. I would use, over time,
9 especially over the past sixteen months -- my
10 goodness, I would hazard a guess -- and this is only a
11 guess -- that I probably used hundreds, if not
12 thousands, of search terms.

13 76. Q. Do you see in this passage where you
14 refer to "physicians and surgeons feeling
15 uncomfortable relaying information about vaccine
16 safety concerns"?

17 A. Yes, that's -- that is what my
18 physician colleagues have expressed to me as their
19 primary concern. And the reason being, for exactly
20 what's stated there, is that although -- this is where
21 they're conflicted.

22 Because they recognize that if they are to
23 administer anything that's experimental, they
24 recognize the incredible importance of fully-informed
25 consent. I mean, the emphasis there is on the

1 "fully".

2 They want to be sure -- if they are to
3 adhere to their credo as physicians and surgeons, they
4 need to be able to provide fully, meaning
5 comprehensive information. And so they are -- many of
6 them are fully aware of the scientific literature
7 documenting issues with these vaccines, but they --
8 there is this -- I mean, if you want to read the
9 statement here, it's been implied that if they are
10 issuing information that could be construed as going
11 against Public Health messaging regarding vaccination,
12 which is that, you know, the goal is to get everybody,
13 now down to the age of 12, in Ontario vaccinated,
14 then, you know, they're worried that can be construed
15 as -- you know, the word -- the wording is vague
16 enough that they feel -- they're worried that it can
17 be construed as providing messaging that goes against
18 the Public Health messaging.

19 And so their concern, therefore, is they
20 feel conflicted in how well they can fulfill their
21 commitment to providing fully-informed consent. They
22 have no problem providing all of the cons on the
23 vaccination side, right?

24 I'm very much pro-vaccine, in general, when
25 they are well-vetted vaccines. I'm a vaccinologist.

1 And they, as well, know the incredible value of well-
2 validated, well-studied vaccines with a long -- an
3 appropriately long track record of safety, safety data
4 collected for, you know, multiple years prior to being
5 used in people.

6 So they have no problem sharing the pros.
7 The issue here is with -- the messaging that they
8 receive is -- the question is: How comprehensively
9 can they provide the cons without this organization,
10 the Ontario College of Physicians and Surgeons, making
11 a decision that they have crossed the line of
12 contradicting current Public Health messaging too
13 much.

14 And I'd like to point out that there's a
15 very valid reason for this. And I hope you'll let me
16 follow through with the science, because I need a bit
17 of time. And I just want to double-check, I am -- my
18 understanding is I am allowed to show scientific
19 documents to back up what I'm saying, is that true?
20 Can I share my screen and show the scientific
21 documents that I'm referring to?

22 77. Q. The way this works, sir, is that if I
23 ask you for any documents, then you can provide them
24 afterwards. We don't do research on the fly. And the
25 question ---

1 A. It's not research --

2 78. Q. The question --

3 A. -- on the fly.

4 79. Q. -- was about a statement in your Reply
5 Affidavit. So you see that statement in your Reply
6 Affidavit about "feeling uncomfortable"?

7 A. Yes. And I'm trying to answer that
8 question, because it ends with anti -- they're worried
9 about promoting anti-vaxxer sentiments and their in --
10 and they're worried about their ability to provide all
11 of the cons, which is founded based on scientific
12 literature.

13 So my answer will not be complete until I
14 can -- I can explain to you what those cons are, and
15 then I think it'll be fully appreciated why they want
16 to be able to share this information. So ---

17 80. Q. Sir, the question was about a statement
18 in your Reply Affidavit. You don't need any other
19 documents to answer a question about what's in the
20 document in front of you. Do you understand that?

21 A. Yes, I do, because I've been asked to
22 comment on this, and it's ---

23 81. Q. You haven't been asked to comment.
24 You've been asked whether that statement is in your
25 Reply Affidavit?

1 A. Yes, it's in the -- it's in this. Yes,
2 it's in this Reply Affidavit.

3 82. Q. And the discomfort being expressed in
4 this sentence is physicians who are worried that the
5 College will discipline them for speaking true facts
6 about the COVID-19 vaccine, is that right?

7 A. The messaging was vague enough that,
8 yes, they are concerned that -- they are uncertain of
9 where -- how much of the cons with respect to
10 vaccination they can express before it is deemed that
11 they have crossed a line and have shared too much
12 information contradictory -- that would be viewed
13 potentially as contradictory to current Public Health
14 messaging.

15 83. Q. Too much accurate messaging
16 information, not misinformation? They're worried that
17 the College will punish them for providing too much
18 accurate information to their patients, is that right?

19 A. Yes.

20 84. Q. And physicians have told you this?

21 A. Yes.

22 85. Q. And which physicians told you that?

23 A. I'm definitely not going to name these
24 physicians. They definitely want to remain anonymous.
25 The only physicians that I have spoken to that -- that

1 would potentially feel comfortable are retired
2 physicians. But as retired physicians, they're not
3 actively engaged in this messaging to patients.

4 86. Q. And did they use the words in this
5 sentence that you have conveyed, those exact words
6 when they communicated that to you, the anonymous
7 physicians?

8 A. Yes.

9 87. Q. And how many physicians echoed those
10 exact words?

11 A. So with the group that I meet with on a
12 weekly basis, it's approximately twenty. Twenty
13 physicians.

14 88. Q. And they each said these exact words to
15 you orally in turn?

16 A. They actually have one physician who
17 generally likes to represent the group, and that
18 physician stated this and the rest affirmed their
19 statement.

20 89. Q. How did they affirm it?

21 A. By agreeing, nodding their heads, or
22 stating yes, that they agreed with this statement
23 during our weekly online Zoom meeting.

24 90. Q. And how many people attend those weekly
25 meetings?

1 A. Our group has grown to over sixty now.
2 They're -- they're not all physicians, I should point
3 out. It's a group that's largely composed of -- the
4 majority membership is -- are physicians; the second-
5 largest group would be scientists; and then there are
6 a whole bunch of other health professionals; and some
7 other professionals that we have meeting with us, as
8 well.

9 But I would say probably two-thirds of the
10 group are -- are made up of physicians and scientists
11 from across Canada.

12 91. Q. And are minutes taken of the meetings?

13 A. There are minutes that are taken, but
14 our group is not official yet.

15 92. Q. And is this exact statement in the
16 minutes of a meeting of that group, that I've
17 highlighted on the screen?

18 A. No, it would not appear in the minutes,
19 no.

20 93. Q. So the lead physician said that and his
21 colleagues affirmed it, but it wasn't included in the
22 minutes?

23 A. That is correct.

24 94. Q. And do you know why it was omitted from
25 the minutes?

1 A. Yes, physicians and -- these physicians
2 and surgeons fear for their jobs. And unfortunately
3 they will not go public with these statements. I'll
4 acknowledge that. So we have to take it at face
5 value. We have to take it as what it is.

6 And they'll not -- they will not put their
7 names to this, out of fear. So within this group, I
8 think it should be pointed out that, as I just
9 mentioned, out of sixty-three members, there are two
10 of us -- two of us who have volunteered.

11 The entire group was asked, "When this group
12 does go public" -- you know, we're getting organized
13 right now, the question was posed to all of the
14 members, "Who within the membership would be
15 comfortable to, in essence, front this group, be open
16 to publicly answering questions -- many questions that
17 will come from the public?"

18 And only two of us, you know, were willing
19 to put our names forward. One of the reasons why this
20 group has formed is to provide a safe haven for
21 scientists and physicians to have open discussions
22 about the science underlying the -- underlying COVID-
23 19, and without, as I stated here, this fear of
24 reprisal.

25 And we will respect that and we will honour

1 that, and I acknowledge that in the context of a
2 statement like this and my (inaudible), it could be
3 construed as hearsay. But it is what it is. I -- I
4 can't put people's names to this, when they do not
5 feel comfortable having that done.

6 95. Q. Who takes the minutes?

7 A. Well, we have a person assigned to do
8 that task, one of our members.

9 96. Q. And how do they -- they're the person
10 who decides what is omitted from the minutes that's
11 discussed?

12 A. They record -- I mean, they record
13 their minutes and provide it to the -- they provide
14 these minutes to the Steering Committee.

15 97. Q. So how do you know the basis for
16 omitting this statement from the minutes, if you're
17 not the person who takes them?

18 A. Because I'm a member of the Steering
19 Committee, and I see the minutes, and it was not
20 recorded in the minutes. And it is a general
21 agreement among the entire group that we will not name
22 people, because we understand that once we become a
23 formal organization, that things like minutes can be
24 obtained.

25 And I -- like I said, the whole purpose of

1 this group is to provide a safe haven for open,
2 honest, objective, scientific, and medical discussions
3 about COVID-19, without putting anybody's jobs at
4 risk.

5 And as I mentioned, we have identified only
6 two people in our group who are willing to have their
7 names stand alongside any official documentation
8 associated with this group and our meetings. And so
9 that is a uniform group decision, and so there is no,
10 you know, thinking about whether or not this will be
11 done.

12 If people have not explicitly stated that
13 they would like their names recorded and identified
14 for potential release to the public, then that --
15 their names will never be recorded in documents or
16 notes that we take.

17 98. Q. Did a physician say out loud: `Do not
18 include my previous statement in the minutes, because
19 I fear College discipline'?

20 A. I'm sorry, which -- which statement are
21 you referring to exactly?

22 99. Q. The highlighted statement on the
23 screen, sir.

24 A. This, again, was stated by the
25 physician and surgeon who tends to take the lead for

1 the others, and as I said, it received broad agreement
2 based on nods or verbal affirmations after that
3 individual making the statement.

4 100. Q. Sir, you told us you knew why this
5 statement was omitted from the minutes, do you
6 remember that?

7 A. No, I -- what I stated was that the
8 names of these physicians and surgeons were omitted.
9 Sorry, yes, the names of the physicians and surgeons.
10 And, yes, this statement itself did not -- was not in
11 the minutes, yes. That is correct, it was not
12 recorded in the minutes. This is my statement. This
13 is me relaying the information.

14 101. Q. So this statement about "feeling
15 uncomfortable relaying information about emerging
16 safety concerns surrounding the vaccines, for fear
17 that it may be misconstrued by the Ontario College of
18 Physicians and Surgeons as promoting anti-vaxxer
19 sentiments", that statement was not in the minutes at
20 the meeting at which that sentiment was expressed, do
21 I have that right?

22 A. That is correct. But this -- this
23 information that I'm relaying here is also not limited
24 just to that meeting. This is -- there are many ---

25 102. Q. Sir, the question was about the

1 minutes. That statement wasn't in the minutes, do you
2 agree?

3 A. Yes, I agree.

4 103. Q. Do you know why it was omitted from the
5 minutes?

6 A. It wasn't specifically omitted. It was
7 not included in the minutes.

8 104. Q. Why was it not included in the minutes?
9 Do you know the answer to that?

10 A. Yeah, because the minutes would have
11 been focusing on the scientific discussions that we
12 were having. The science. This is a -- or this
13 weekly meeting is a roundtable scientific discussion.
14 And so in that case, the minutes focus on the science
15 that's being discussed.

16 105. Q. So this statement in your Reply
17 Affidavit is based entirely on your recollection of
18 that meeting?

19 A. No. It's based in ---

20 106. Q. What else is it --

21 A. It's based ---

22 107. Q. -- based on?

23 A. It's based in part on the recollection
24 from that meeting as well as many media releases.
25 There have -- there have been many stories that are --

1 that you can find, again, through these searches on
2 the Internet, that the media has highlighted.

3 It's not just -- because, of course, it's
4 not just limited to the relatively few physicians and
5 surgeons in this group that I meet with. There has
6 been broad-based blowback from physicians and
7 surgeons, not only in -- throughout Ontario, but well
8 beyond Ontario, going well beyond Canada.

9 This has caused a ripple effect through the
10 whole world, because this is recognized that this kind
11 of messaging is not appropriate to give to physicians
12 and surgeons. They need to feel 100 percent free to
13 provide fully-informed consent.

14 So there are many media articles quoting
15 many physicians and surgeons. So it goes well beyond
16 this group and even well beyond Ontario, that speak
17 against this statement that was made. And also from
18 this -- these media releases that I have been seeing,
19 it is my understanding that, if needed, this -- this
20 will go to court, because this is not appropriate for
21 physicians and surgeons.

22 I can tell you that as a researcher. I'm a
23 researcher who has some experience conducting some
24 clinical research, and the -- this whole concept of
25 informed consent is absolutely imperative and there

1 can be no hesitation on the part of a professional to
2 provide all of the potential cons along with all of
3 the potential pros. This is for the safety of anybody
4 who agrees to enter an experimental trial.

5 108. Q. What's the name of the weekly group you
6 participate in?

7 A. We're called the "Canadian COVID Care
8 Alliance".

9 109. Q. And how did you get invited to the
10 group?

11 A. Okay, that's actually an interesting
12 question. It has an interesting history. So this is
13 the -- how I got invited to the group. I received
14 funding early on in the pandemic to -- by the Ontario
15 Government and the Federal Government -- actually,
16 early on in the pandemic from the Ontario Government,
17 later from the Federal Government, to -- to make and
18 test novel COVID-19 vaccines.

19 As I mentioned, as a researcher -- so this
20 is from the ground up, so this is starting at the pre-
21 clinical research phase. So as a researcher, right, I
22 was working in -- and especially when you're
23 conducting pre-clinical studies, you don't want to
24 waste the time, energy, and resources, especially of
25 your research team, to, you know, invest in research

1 that has no clinical outcome, no potential clinical
2 use.

3 So you always want to see a potential avenue
4 into clinical use. And as a reason -- so as a
5 consequence, I mean, I understood that the -- the only
6 way the COVID-19 vaccines could be used clinically at
7 this point in time, without undergoing the proper
8 scientific process, right -- so, typically, it takes,
9 on average, about ten years for a vaccine to navigate
10 the clinical trial process, let alone the pre-clinical
11 and translational research phases.

12 It was well recognized that the only chance
13 these vaccines had of having a clinical application
14 now, during the pandemic, would be through emergency
15 use authorization. And emergency use authorization is
16 -- this is not the same as licensing of a vaccine,
17 right?

18 Emergency use authorization is taking a
19 vaccine and -- that's experimental, and then
20 authorizing it on the basis of there being a declared
21 emergency. And this can only be done if there are no
22 legitimate treatment strategies that can be
23 implemented for the disease.

24 So specifically in this case, we're talking
25 about COVID-19, which is caused by the virus, SARS

1 CoronaVirus-2. So having received funding and
2 intending to develop vaccines for COVID-19, I knew
3 that there had to be no suitable early treatment
4 strategies.

5 So as a consequence, I have kept close tabs
6 on some of the key, you know, early treatment
7 strategies that were proposed early -- very early on
8 in the pandemic. And those included
9 hydroxychloroquine, Ivermectin, and as an
10 immunologist, certainly vitamin D3 is high up on that
11 list.

12 And what I focused on mainly, out of those
13 three, was Ivermectin and vitamin D. And that's
14 simply because, you know, I have to limit it. I have
15 a limitation in time and resources, so I focused on
16 those as great examples. And the Ivermectin story is
17 kind of interesting.

18 So the reason why I focused on those is
19 because if these were legitimate, good intervention
20 strategies, then there would be no emergency use
21 authorization for the vaccines. So that's why I
22 wanted to keep an eye on this, right, is because I
23 wanted to make sure that there wasn't going to be a
24 potential outlet for COVID-19 vaccines.

25 So I followed the science. Early on, there

1 were a couple of key randomized control trials done
2 with Ivermectin. And like I mentioned, I'm a
3 scientist who goes with the evidence -- the scientific
4 evidence that's available. These -- these initial
5 couple of trials had negative outcomes, that they
6 didn't show a statistically significant benefit for
7 Ivermectin.

8 So there were a couple things that I noted
9 from that. One is, as a scientist I noted that there
10 were key flaws in these -- in these early randomized
11 control trials. And what those flaws were is any time
12 you conduct an experiment, you want a -- you have a
13 treatment group and you're comparing that treatment
14 group always to a control group.

15 The problem was, in the control group, these
16 -- these studies were done in countries where
17 Ivermectin is readily available, unlike Canada. In
18 these countries where these experiments were done,
19 Ivermectin is readily available over-the-counter, and
20 so anybody can readily get a hold of Ivermectin. And
21 in many of these countries, people are self-treating
22 with Ivermectin.

23 And so the problem was, in the control
24 groups, there was no control for how many of those
25 people were taking Ivermectin. So essentially what we

1 had was a comparison in the treatment group of people
2 being treated with Ivermectin, and a control group for
3 which there was an unknown number of people being
4 treated with Ivermectin.

5 So it was essentially comparing the benefit
6 of Ivermectin to the benefit of Ivermectin. So it
7 wasn't -- it wasn't surprising that they then show a
8 benefit in those early studies. But as a
9 vaccinologist, I was happy enough with that outcome,
10 right? Because I now had a couple of peer-reviewed
11 scientific papers showing here's a key, you know, drug
12 that people are claiming is an effective treatment
13 strategy.

14 These papers would suggest that, yeah,
15 there's going to be -- in the context of Ivermectin,
16 there's going to be a valid reason why vaccines could
17 get emergency use approval. So that's why I was
18 following that literature. However, again, I have to
19 follow the bulk of the literature, and if you look at
20 my first report, you'll see the results of my, you
21 know, research in this.

22 And what I did, just to be very open about
23 this, is I included an appendix of all of the, you
24 know, massive number -- you know, very large number of
25 scientific publications now that have amassed in the

1 area of Ivermectin.

2 And again to relay honestly the information
3 to the court, I highlighted where -- which papers
4 provided a negative outcome, meaning they did not show
5 a benefit of Ivermectin, and those that did. And now
6 if you look at that list, it is -- again, as I
7 mentioned, as a scientist, right, you have to go with
8 the weight of the evidence.

9 The weight of the evidence now is vastly in
10 favour of showing that Ivermectin is an effective
11 treatment strategy, to the point where I was then
12 shocked when we provided -- as a vaccinologist
13 developing COVID-19 vaccines and wanting to see, you
14 know, a clinical application for these in the future,
15 I was shocked to see that we issued emergency use
16 application, because as a scientist, I couldn't help
17 but see that Ivermectin clearly, based on the weight
18 of the scientific data, is an effective early
19 treatment strategy.

20 And so this as well as the vitamin D story.
21 So the other -- this is the other aspect. So that was
22 the other one that I was following. So when it comes
23 to vitamin D, I included, actually, in this most
24 recent report that you have up on the screen here,
25 some information about vitamin D, including

1 ElectroSlide.

2 So I teach my students about the importance
3 of vitamin D. All immunologists know vitamin D is a
4 critical, critical component to the proper functioning
5 of the immune system. So even this example of a slide
6 that I use when I teach immunology to my students,
7 there's a great example.

8 They love this, because it has a real
9 historical context. Many people have heard through
10 history lessons about the specialized institutions,
11 the sanitoriums that we had for people who were
12 suffering from tuberculosis, which is caused,
13 interestingly, by an intracellular bacteria.

14 So it's an intracellular pathogen, just like
15 SARS CoronaVirus-2 is. So this is a mechanism that's
16 relevant also to SARS CoronaVirus-2. What was
17 interesting was these observations that people in
18 these sanitoriums did better than those who were not
19 in the sanitoriums. And there were three observations
20 that were made as to why this was.

21 One is that the -- it was noted that one of
22 the correlates was exposure to fresh air, the other
23 one was exposure to sunlight, and the other one was
24 the provision of nutritious food. Now, interestingly,
25 the exposure to fresh air was irrelevant. The reason

1 why they were exposed to fresh air is simply because
2 they were exposed to the sunlight, and the actual
3 scientific mechanism underlying this was the vitamin
4 D.

5 And, you know, the important thing to know
6 about vitamin D is when we are exposed to strong
7 sunlight, our skin is able to manufacture vitamin D.
8 So that's why in the northern climates during the
9 summertime, we get intensive enough sunlight that if
10 we go outside for at least fifteen minutes and get
11 exposure to the sunlight for at least fifteen minutes
12 every day, our bodies will manufacture a sufficient
13 quantity of vitamin D.

14 And this vitamin D -- and this is in a slide
15 that I included here in this report -- is critical.
16 So, for example, in this case, one of the things it
17 does is it's critical for a mechanism of action used
18 by macrophages to kill intracellular pathogens, such
19 as microbacterium, which cause -- microbacterium
20 tuberculosis, which causes tuberculosis, and also
21 viruses like SARS CoronaVirus-2.

22 So it's a critical component. Without
23 sufficient vitamin D, people's immune systems cannot
24 function properly. And I also provided in here -- I
25 mean, there are thousands of references. Vitamin D

1 has been studied in the context of basic fundamental
2 immunology for decades.

3 So there are thousands of references showing
4 how important vitamin D is to the functioning of the
5 immune system. However, I limited the -- I think it
6 was about seventy-five -- I'd have to actually look at
7 it. It was about seventy-five references, I believe,
8 to vitamin D, specifically in the context of COVID-19.

9 So the point is: It's absolutely critical
10 to the proper functioning of the immune system, it's
11 very -- when we have sufficient vitamin D in our
12 bodies, our immune systems are much better able to
13 deal with SARS CoronaVirus-2.

14 So, for example, in these publications are
15 included this concept that more northern countries --
16 so, for example, Canada compared to the United States,
17 where we get weaker sunlight because of the angle of
18 the sun, therefore we get less natural production of
19 vitamin D.

20 The more -- the more northern you go in
21 latitude, the higher -- in general, the higher the
22 incidence of cases of severe -- of COVID-19 and
23 especially severe COVID-19. And we also see this
24 seasonally, right?

25 And this is well-known and established, for

1 example, in the context of influenza infections. So
2 we often refer to the "cold and flu season", right?
3 The reality is: Yes, there are some physical changes
4 that do make us more prone to infection with viruses
5 in the cold.

6 So, for example, the dry air can reduce the
7 thickness of our mucus that line our respiratory
8 system. But the key component, the dominant
9 component, is this is not that it's necessarily cold
10 and flu season, but that it's a low vitamin D season,
11 right, where we don't get enough exposure to the
12 sunlight, and so we don't manufacture enough vitamin
13 D.

14 So supplementation with vitamin D -- vitamin
15 D is very cheap and inexpensive, and it is a very
16 effective strategy for reducing the incidence of
17 respiratory infections, including COVID-19 caused by
18 SARS CoronaVirus-2. It's also very good at dampening
19 the severity of disease caused by respiratory
20 pathogens, including SARS CoronaVirus-2.

21 So this -- this -- I have been surprised, as
22 an immunologist, that this has not been widely
23 promoted in Canada. So, again, this represents a very
24 cheap and effective strategy. And as an expert, I can
25 tell you unequivocally, based on the overwhelming --

1 like I said, thousands of publications on vitamin D
2 and its importance to a functioning immune system --
3 had we in Canada actively promoted early on in the
4 pandemic, the proper supplementation, especially from
5 mid fall to mid spring, there's -- there's no question
6 in my mind that we almost certainly would have had a
7 lower incidence of cases of COVID-19 and fewer cases
8 of severe COVID-19.

9 So these are the two things that I was
10 following, right? And this is actually why -- and the
11 reason why I say this, this is why I was invited to
12 the group, because this group of physicians, one of
13 their primary interests, actually, is in using
14 effective early treatment strategies for the treatment
15 of COVID-19.

16 And so what they saw in me was a scientist
17 who, early on in the pandemic, based on scientific
18 evidence, right, these -- this very limited early
19 scientific evidence suggesting that -- although the
20 studies were flawed, did suggest that maybe there was
21 not a benefit of Ivermectin.

22 They saw me go from that and saw me as
23 someone who was willing to follow the weight of the
24 evidence to the point where, even though I would like
25 to see a clinical outcome for the vaccines that my

1 research team is working on, I can't deny the benefit,
2 the overwhelming science in favour of the fact that
3 Ivermectin is an effective treatment. And certainly
4 vitamin D3 is, as well.

5 And that's why they recruited me, because,
6 again, they saw: Here's a scientist who actually, you
7 know, in quotes, was "our enemy" at the beginning,
8 right, was using the limited scientific literature
9 early on to actually make the argument that Ivermectin
10 may not be an effective treatment and, therefore, we
11 need emergency use authorization of vaccines to follow
12 the weight of the science, and now stating clearly
13 that I have to admit, on the weight of the science,
14 that Ivermectin is an effective treatment strategy,
15 right?

16 So they viewed me, again, as somebody who
17 was willing to follow the science and change my
18 scientific opinions, based on the weight of the
19 science. That's why they invited me to be part of
20 this group. And the other -- and the other key reason
21 is -- again, these two things interface. It wasn't
22 even just that they saw that I'm willing to follow the
23 science and I was going to change my opinion on the
24 validity of Ivermectin -- and I never questioned the
25 validity of vitamin D3, because an immunologist, as I

1 said, that's just to me, as an immunologist, common
2 sense.

3 But the other reason is as I mentioned: The
4 two are at loggerheads. You can't have emergency use
5 authorization of vaccines without having -- you can't
6 have that and simultaneously have acknowledgment of
7 the fact that there are effective early treatment
8 strategies present.

9 And so the other aspect to why they invited
10 me was on the vaccination side. And on the
11 vaccination side, when I see that there are effective
12 early treatment strategies, the other thing that
13 becomes very important -- and this is the second
14 reason why they invited me -- is there are major
15 concerns that have developed scientifically with the
16 -- with the vaccines.

17 And what I mean by this is -- and this is
18 also kind of interesting, because this stems,
19 actually, from pathogenesis studies. So solid
20 scientific literature looking at how SARS CoronaVirus-
21 2 causes damage to the body in cases of severe COVID-
22 19.

23 So when severe COVID-19 develops, one of the
24 things that has been noted is that there is a lot of
25 damage to the cardiovascular system. So it's now

1 known that when affected with SARS CoronaVirus-2, if
2 people develop -- you know, are prone -- the
3 relatively few people who are prone to developing
4 severe COVID-19, these individuals can have the spike
5 protein from the virus enter into blood circulation.

6 And if the spike protein gets into
7 circulation, it can cause damage to the cardiovascular
8 system. And the reason for this is we know that the
9 receptor for the spike proteins is -- I should
10 explain.

11 The spike protein is this protein, it sticks
12 up on the surface of the virus. It's the protein that
13 binds to a receptor on the cells that we have lying in
14 our respiratory system. And when that happens, the
15 virus can then infect ourselves. That's how infection
16 occurs.

17 This spike protein, however, was also
18 discovered it's not just responsible for the virus
19 getting into cells. When that spike protein on its
20 own gets into blood circulation in these infected
21 individuals, we've discovered that this receptor it
22 uses is also expressed on the cells that line our
23 blood vessels and it's also expressed at high
24 concentrations on our platelets.

25 And so this is why the virus can cause a lot

1 of cardiovascular damage. It can cause heart
2 problems, it can cause bleeding, it can cause
3 clotting, and this is the reason. And so as
4 scientists, therefore, we were suspecting that the
5 spike protein itself was responsible for these
6 cardiovascular events.

7 So, indeed, a pivotal study was done in
8 monkeys where they were injected with a purified spike
9 protein and all of this cardiovascular damage was
10 recapitulated. It was found that if the spike protein
11 on its own can get into circulation in the blood, it
12 can bind to the endothelial cells, or these cells
13 lining the blood vessels, and/or platelets.

14 They can also cross the blood-brain barrier
15 and cause neurological damage, as well, including
16 damage to the blood vessels in the brain. And when
17 this happens, the reason why we get damage is --
18 there's a couple mechanisms that have been shown.

19 One is when this protein binds to this
20 receptor on these cells and activates a protein that
21 we have in circulation called "C5" -- this is a part
22 of our innate immune system. It's called the
23 "complement system". And when that happens, it
24 activates what we call a "complement cascade", and the
25 end result of this cascade is damage to a cell. This

1 can result in cell death.

2 The other thing that can happen is if this
3 protein binds to the receptor on platelets, it can
4 actually signalling through the receptor on platelets,
5 and it can cause these platelets to become activated.
6 Activated platelets tend to clump, they aggregate.

7 And so you can see here there's two --
8 that's why there's two possible outcomes. If, when
9 that binds, the complement kills a platelet, then you
10 get loss of platelets. We call it "thrombocytopenia",
11 and somebody can end up with a decrease in their
12 platelet count. But if it leads to activation of the
13 platelet through signalling through that receptor,
14 then it can cause aggregation of the platelets, and
15 that can promote what we call "thrombosis" or "blood
16 clotting". And so that's how the virus causes these
17 cardiovascular problems, right? And so it's been
18 shown that this -- this key aspect of the disease
19 pathogenesis is mediated almost entirely by the spike
20 protein on its own.

21 And so this -- this is the key, then, is --
22 so when we were designing these vaccines, all of the
23 current vaccines, or the vaccines that have been
24 approved for use in Canada, right, we have to be aware
25 of, are all targeting the spike protein.

1 So the way a vaccine works is you want to
2 show the immune system a piece of the virus, tell the
3 immune system that that piece of the virus is
4 dangerous, and, therefore, worth responding to. And
5 at the beginning, it was logical to choose the spike
6 protein, right?

7 Because as I mentioned, the spike protein is
8 responsible entirely for allowing that virus to infect
9 our body. So if we can get the immune system to
10 respond to that spike protein, the idea is we will get
11 antibodies.

12 And, ideally, if the antibodies end up in
13 the right location -- or where we want them is in the
14 airways, because that's where we get infected -- those
15 antibodies will bind to the spike protein and prevent
16 the virus from being able to infect ourselves. And
17 that is what would protect us from infection. That's
18 the theory.

19 What we didn't know at the time -- so that
20 was all logical in terms of the vaccine design.
21 That's why all of our vaccines are targeting the spike
22 protein, and only the spike protein. What we did not
23 appreciate at that time is that the spike protein, as
24 we now know, is a pathogenic protein and it can cause
25 serious harm to our cardiovascular system and possibly

1 other tissues, including, as I mentioned, once it's in
2 the blood, it can get past the blood-brain barrier.

3 Now here's the issue: The assumption --
4 again, too much of the science -- so a lot of the
5 decisions that were made early on in the pandemic were
6 legitimate, they were based -- I mean, we had no
7 choice without -- in the absence of science
8 specifically about SARS CoronaVirus-2 and COVID-19
9 vaccines, we had to go based on assumptions.

10 So the historical assumption with vaccines
11 -- remember, historical vaccines were dominated by
12 vaccines that we call -- they're either inactivated
13 viral viruses where you take the virus, you inactivate
14 it so it can't cause disease anymore, and you mix it
15 with what we call an "adjuvant", and you inject it, or
16 you take pieces of the virus and mix it with an
17 adjuvant and inject it. These are what we call "sub-
18 unit vaccines".

19 What happens with these vaccines is you
20 inject them into the shoulder, right, like we are the
21 COVID-19 vaccines, the vaccine will stay in the
22 shoulder, it has a dipal (ph) effect, it doesn't go
23 anywhere else in the body, it just stays in the
24 shoulder.

25 The only other place where you will find any

1 components of that vaccine is in the local draining
2 lymph nodes, and that's because the immune system
3 comes and picks up the pieces of the virus, takes them
4 to the local draining lymph nodes, and it's in the
5 lymph nodes that we've got -- that the immune system
6 gets activated.

7 That's why whenever we get sick or
8 vaccinated, it's not unusual to be able to palpate --
9 like, for example, we get a throat infection,
10 physicians will often palpate behind the jaw and feel
11 for -- to see if there's swelling of the lymph nodes.
12 That shows that an active immune response is being
13 mounted.

14 So the reason why that happens is because
15 pieces of the virus are taken to the local draining
16 lymph node and you get this massive expansion of B
17 cells and T cells, which are these cells that we want
18 to protect us from the virus. That's why the lymph
19 node swells. And then these leave the lymph nodes and
20 go throughout the body.

21 This was the assumption. However, this is
22 -- these are novel vaccine platforms, and what we have
23 now discovered is -- this is the problem: That was
24 the assumption. But as scientists, we've been trying
25 -- we've been demanding to see what we call

1 "biodistribution data". What "biodistribution data"
2 is, is it tells us where exactly the vaccine is going
3 in the body.

4 And with these novel vaccines, there's two
5 things that we're interested in. So now -- I just
6 focused on the mRNA vaccines, because of the fiasco we
7 had with AstraZeneca, and the safety issues, and the
8 -- you know, all the issues with the Public Health
9 messaging around that.

10 We have scrapped the AstraZeneca vaccine, so
11 I'm not even going to focus on that. So what we have
12 left right now at the moment that we're using are the
13 Messenger RNA vaccines. So in that context ---

14 THE REPORTER: Could you spell that?

15 THE DEPONENT: (inaudible) little "m" --
16 yeah, little "m" -- little "m", capital R-N-A. So
17 that -- that stands for "Messenger ribonucleic acid".
18 And thank you for bringing that up. What that is, is
19 that is a piece of genetic material, and specifically
20 the Messenger RNA or the piece of the genetic material
21 that is used in the Pfizer/Moderna vaccines provides
22 the genetic blueprint for the spike protein from the
23 SARS CoronaVirus-2.

24 So the way it's -- so the way it's intended
25 to work is once that vaccine is administered, it's

1 delivered in what we call "lipid nanoparticles", so
2 these are coated in basically a layer of fat. Our
3 cells, interestingly, are coated in a layer of fat.
4 The cell membrane is made of fat.

5 So when the lipid nanoparticle comes into
6 contact with a cell at the injection site, the lipid
7 nanoparticle will fuse with the lipid membrane of the
8 cell, and the Messenger RNA will be essentially
9 injected or fused into the cell into what we call an
10 endosome, be taken up by the cell, and then it'll use
11 the cell's own machinery, right?

12 It provides, then, the genetic blueprint for
13 the spike protein, and it uses the cell's own protein
14 manufacturing apparatus to manufacture the spike
15 protein. So these vaccines get -- get a person's own
16 body, their own cells, to manufacture the spike
17 protein. How much spike protein will be highly
18 variable, because it'll depend on the individual,
19 it'll depend on the metabolic activity of the cells
20 that get -- that receive this payload from these lipid
21 nanoparticles.

22 And so the idea is that the cells produce
23 the spike protein. And, again, in theory, if this
24 worked like the traditional vaccines, the only place
25 that spike protein would go would be the draining

1 lymph node, and it would get presented to B and T
2 cells, they'd be activated, right, and then go
3 throughout the body and look for the SARS CoronaVirus-
4 2.

5 And if it saw the spike protein anywhere, it
6 would then, you know, attack it. And the only source
7 of the spike protein should, in theory, be, therefore,
8 the virus. And that's how we would be protected from
9 infection of the SARS CoronaVirus-2.

10 However, with these new -- novel vaccines,
11 it's absolutely essential with any novel therapeutic
12 agent, that you do what we call a "biodistribution
13 study". And so what a "biodistribution study" is, is
14 it says: `Okay, based historically -- on history,
15 we're assuming that the vaccine is only present at the
16 injection site and the local draining lymph nodes'.

17 But what you do is you look throughout the
18 body. It's an anatomical study, you look throughout
19 the body, and in the context of these mRNA vaccines,
20 there's two relevant questions. One is: Where
21 exactly do the lipid nanoparticles go? Are they
22 limited only to the shoulder and lymph node --
23 draining lymph node?

24 The other question is: These lipid
25 nanoparticles are carrying a Messenger RNA payload

1 that's designed to cause cells to produce the spike
2 protein. So the second component of a properly-
3 conducted biodistribution study would be to then say:
4 Where does that spike protein go in the body, right?
5 Is it also limited to the injection site and the
6 draining lymph nodes?

7 Now, this is the key. This should have been
8 done --- (dinging sound)

9 MR. RYAN: I believe that's one of the
10 parties. Perhaps the other counsel could confirm
11 that?

12 MR. CHAND: Yes. Perhaps we could -- I'm
13 wondering if we could take our morning break at this
14 point? I know that Dr. Bridle was in the midst of
15 completing his answer. I think we can hold off on
16 admitting Mr. Skelly for the time being.

17 But once Dr. Bridle has completed his
18 answer, Counsel, I'm wondering if now would be an
19 appropriate time to take a break?

20 MR. RYAN: That's fine with me. Whenever
21 Dr. Bridle's finished.

22 THE DEPONENT: Sure, yeah, I understand.
23 Sorry, I get a bit passionate when I'm talking about
24 science. I'll (inaudible). No problem. Don't
25 hesitate to interrupt me. And if there's any term

1 that you want me to define, or anything, please.
2 Because I also don't -- I want it to be accessible
3 (inaudible). Sure, okay, so I'll try and wrap up the
4 question so we can get to the break.

5 So I was at the point of the biodistribution
6 study. And so the key here is Health Canada and --
7 there's been no public release of what the
8 biodistribution data looked like. So through a -- you
9 know, an access to information request, it turns out
10 that the Japanese government, interestingly, requires
11 some pre-clinical data to be submitted alongside the
12 clinical data.

13 So for Health Canada and the USFDA, for
14 example, they usually just require clinical data to be
15 submitted. And a company's never going to submit data
16 that they aren't -- that they haven't been asked to
17 submit. So this was the first time.

18 So through the -- so a report from Pfizer to
19 the Public Health agency in Japan did provide detailed
20 biodistribution data. It was an improperly-conducted
21 study because one of the issues with it is it never
22 captured the peak of accumulation of the lipid
23 nanoparticles that Pfizer uses in their vaccine.

24 Nevertheless, it was very revealing
25 information, and what it showed is these lipid

1 nanoparticles that carry the Messenger RNA -- and the
2 way it worked is, what they did is they used these
3 lipid nanoparticles, but instead of the mRNA
4 (inaudible) the spike protein, they put into it an
5 mRNA encoding a protein that can be used for imaging
6 studies, so they could see where the Messenger --
7 where the lipid nanoparticles were going.

8 And so that means, by definition, what they
9 were seeing in the tissue was a protein that was being
10 expressed from this vaccination platform. And so what
11 -- and so they knew, then, that the Messenger RNA was
12 being expressed in the tissues.

13 Interestingly, as you expect, a lot of the
14 lipid nanoparticles were found at the injection site,
15 right? That's what you expect. But, surprisingly,
16 after forty-eight hours, only approximately 25 -- I
17 think the exact number was 25.8, but don't quote me on
18 that. It was about 25 or 26 percent of the vaccine
19 dose remained at the injection site.

20 That's troubling, because then the question
21 is: What happened to the other, you know,
22 approximately three-quarters of the dose? Well, when
23 you look at this biodistribution data, it's very clear
24 that over time -- so they monitored it at fifteen
25 minutes post-administration, one hour, two hours, and

1 up to -- at multiple time points up to forty-eight
2 hours.

3 And what they found is that there was clear
4 evidence that the vaccine platform, right, these lipid
5 nanoparticles, were being distributed systemically.
6 They were clearly detectible in the blood from the
7 circulation.

8 When you see that something is circulating
9 in the blood, a tissue that you naturally look at is
10 the spleen, because the spleen is designed to filter
11 the blood. And so what they found there is that these
12 lipid nanoparticles were accumulating in the spleen,
13 they found there was distribution of the vaccine into
14 the bone marrow, they found there was distribution of
15 the vaccine into the adrenal glands.

16 Remarkably, after forty-eight hours, 16
17 percent of the vaccine dose had accumulated in the
18 liver. They found evidence of a lot of accumulation
19 in the ovaries. That, I have a concern about because
20 vaccines are quite pro-inflammatory. They call them
21 "reactogenic".

22 That's why a lot of people, when they
23 receive the -- after they receive the injection, some
24 of them can't even lift their shoulder afterwards,
25 because of the amount of inflammation. So if you

1 cause inflammation, for example, in the ovaries, that
2 could cause damage, right?

3 A female, when born, that's -- they have a
4 fixed number of eggs, right, for potential fertility,
5 right? That's it. They're programmed, they're set
6 with that number of eggs. So if there's any damage to
7 the ovaries and any kind of inflammation in the
8 ovaries, there can be potential damage to the gametes.

9 If there were to be inflammation in the
10 ovaries, that's something you never want because one
11 of the issues there is that our immune systems learn
12 what to become tolerant to in our bodies by about the
13 age of 6. And the problem is, therefore, during
14 adolescence, there's a lot of changes in the ovaries
15 and the testes, and so there's a lot of proteins that
16 are present that the body has never seen before. We
17 call these "immunoprivileged tissues".

18 And what happens then is that if there is
19 damage and -- inflammation in a tissue like that and
20 there's damage caused, it can cause release of
21 antigens (inaudible) we've never seen before, and it
22 can cause induction of autoimmune reactions.

23 So you can see there's no scientific proof
24 for this, but there's a legitimate scientific question
25 when you see this kind of biodistribution data. In

1 terms of could this result, for example, in
2 infertility and people that get vaccinated? And that
3 would reveal itself, potentially, (inaudible) if
4 somebody tries to get pregnant.

5 There's other tissues. I won't go through
6 all the tissues, but the net result is that there's
7 wide distribution of this, evidence -- evidence of it
8 getting into the blood and getting into many different
9 tissues.

10 Now, the other key component here is there
11 was a scientific study that was just accepted for
12 publication last week. And again in a very well-
13 respected scientific journal. This is very important,
14 because it took thirteen healthcare workers, they were
15 young -- relatively young healthcare workers, many of
16 them were in their 20s, thirteen of them, and it asked
17 a simple question, right?

18 A lot of these scientific questions can be
19 asked if we just pause with these vaccines and take
20 the time to run the studies. So they asked this
21 question: "Does the spike protein" -- because this
22 biodistribution study was looking for the Messenger
23 RNA encoding this imaging protein, a protein that
24 could be used to identify where the lipid
25 nanoparticles are.

1 So they specifically asked about the spike
2 protein with the actual vaccine itself. So after
3 receiving, in this case, the Moderna vaccine, they
4 looked in the circulation -- the blood circulation of
5 these thirteen individuals, healthcare workers, and
6 what they found, remarkably, was that in eleven of the
7 thirteen, they had the spike protein circulating in
8 their blood at various concentrations.

9 And also it was detectible as early as one
10 day post-vaccination in the blood, and in one
11 individual, as long as twenty-nine days later, it was
12 still detectible in the blood. And then it seemed to
13 disappear -- wane and disappear from the body as the
14 antibody -- as an antibody response was mounted. Now,
15 typically, it takes -- for us to generate any
16 substantial number of antibodies post-vaccination,
17 usually it takes in the ballpark of about ten or so
18 days.

19 So that's why most individuals, they could
20 no longer detect the spike protein after about two
21 weeks. But in one person, they could still detect it
22 up to twenty-nine days after vaccination. So this is
23 important because this shows now -- now that we know
24 what the science is, the spike protein itself, if it
25 gets into the blood, causes damage.

1 It can cause damage to the brain, it can
2 cause damage to our cardiovascular system, and now
3 what we understand is that we are inadvertently,
4 unfortunately, through using these vaccines,
5 inoculating people with a pathogenic protein. This is
6 something that we never appreciated when we first
7 started designing our vaccines.

8 And this is a dangerous scenario. So this
9 explains a lot of what we've been seeing. So, for
10 example, with the AstraZeneca vaccine, right, we've
11 been seeing that. So with all the vaccines now, it's
12 acknowledged that there can be these blood-clotting
13 disorders, and this is why.

14 Because if an individual produces a
15 sufficient quantity of spike protein that gets into
16 the blood at a high enough concentration, this is why
17 you can see for the reasons I cited earlier, combined
18 with the platelets, potentially activate them, cause
19 damage to the -- to the blood vessels, and promote
20 clotting.

21 The other thing it can do is there's an
22 equal number of -- I've been doing a lot of research
23 with collaborators into the adverse event databases
24 through the CDC, so in the United States, and we're
25 seeing an equal number of bleeding disorders.

1 We're also seeing a lot of emerging reports
2 of vaccinated individuals -- for example, one just
3 came out a few days ago that got a lot of press, where
4 fourteen soldiers in the United States who were being
5 investigated because they suffered heart problems
6 post-vaccination.

7 And this is all explained. This is all
8 explained from the basic pathogenesis. So when we
9 understand that the spike protein is a pathogenic
10 protein that causes damage to the body, and now we
11 know that we were wrong with the assumption that the
12 vaccine limits that spike protein to the injection
13 site and draining lymph nodes, but rather allows it to
14 get systemically distributed through the blood, now we
15 realize we're inadvertently inoculating people with
16 this pathogenic protein that causes damage.

17 And so this is, I appreciate, a long story,
18 but this comes back again to why these people
19 recruited me, because now that I, you know, understand
20 the full scope in terms of the benefits of the early
21 treatments and the incredibly, you know, concerning
22 safety implications now that we have this full under
23 -- full scientific understanding of the vaccines, I'm
24 very much of the mindset that these vaccines have a
25 lot of legitimate safety questions surrounding them.

1 Like I said, I gave you one example of one
2 that we may not appreciate at the moment. We may be
3 inadvertently, in some people, causing damage to the
4 ovaries. And we're never going to know that until
5 somebody attempts to get pregnant later in life.

6 And this is, of course, a serious concern
7 when it comes to children for whom the SARS
8 CoronaVirus-2 itself is no more dangerous than the
9 average annual flu. In fact, arguably, the average
10 annual flu is likely more dangerous to young people,
11 because it can cause severe disease in some of the
12 very young Canadians.

13 But, nevertheless, this is where we're at.
14 So I come to this conclusion as a scientist following
15 all this science, that there's serious concerns --
16 safety concerns with these experimental vaccines. And
17 as a scientist, I would like to see the proper
18 scientific process followed, right? I recognize that
19 that can't happen.

20 Now, so once I saw the legitimate treatment
21 strategies and now this emergence of legitimate safety
22 questions around the vaccines, I now, with a great
23 confidence, right, feel that, in my professional
24 opinion, we could safely stop the use of these
25 vaccines.

1 They're no longer the be-all and end-all in
2 terms of ending this pandemic because -- and the
3 reason why we can safely stop that to conduct the
4 proper safety studies and proper biodistribution
5 studies is because there are effective early
6 treatments available.

7 And so that is the sum total of the story as
8 to why I was invited to this group that wants to focus
9 on promoting effective early treatment strategies in
10 Canada.

11 BY MR. RYAN:

12 110. Q. Are you done?

13 A. I am.

14 111. Q. Do you remember what the question was I
15 asked you about half-an-hour ago that led to that
16 answer?

17 A. Yes, why I was invited to the group,
18 yes.

19 112. Q. And in your view, everything that
20 you've said over the previous half-hour was relevant
21 to that question?

22 MR. CHAND: Don't answer that question.

23 It's already been answered.

24 --- REFUSAL NO. 4

25 MR. CHAND: Can we have our break now?

1 MR. RYAN: We can have a break. I'm going
2 to ask when we resume that Dr. Bridle listens to the
3 question being asked and responds directly. And that
4 way, we will all be here a lot less time than in the
5 alternative where we might not even finish today, if
6 every answer is going to be like that. But I'm happy
7 to resume in fifteen minutes/12:05.

8 --- OFF THE RECORD (11:49 A.M.) ---

9 --- UPON RESUMING (12:05 P.M.) ---

10 BY MR. RYAN:

11 113. Q. Dr. Bridle, the group you meet with on
12 a weekly basis is the Canadian COVID Care Alliance?

13 A. Yes, that is correct.

14 114. Q. And Karen Levins is a member of that
15 group?

16 A. Yes, that is correct.

17 115. Q. And Stephen Pelech is a member of that
18 group?

19 A. Sorry, can you repeat that last name?
20 Did you say "Steve Pelech"?

21 116. Q. P-E-L-E-C-H.

22 A. Yes. He's from the University of
23 British Columbia. Yes, I can confirm he is part of
24 that group.

25 117. Q. And David Ross is a member?

1 A. Yes, that is correct. He's one of the
2 two founding members, yes.

3 118. Q. Who's the other founding member?

4 A. I'm not going to name individuals that
5 have not given me permission. You know, I'm sorry, I
6 would have to -- I would have to be given an
7 opportunity to ask them if they're okay with me
8 stating that.

9 119. Q. And did the three people whose names I
10 asked you about give you permission?

11 A. The -- Steve Pelech did. The other
12 two, technically, no, you're right, I -- I probably
13 should have requested their permission before
14 answering that question.

15 120. Q. How many members did the alliance have
16 when you were invited to join?

17 A. Approximately eight. And they were
18 physicians and other health professionals, and so I
19 was the first scientist invited to join the group. And
20 for the reasons that we just discussed before the
21 break.

22 121. Q. And when was that?

23 A. I'd have to check my records. I don't
24 know how to do that right now, so I can't give you a
25 specific date, but, you know, ballpark, we started to

1 form as a group, sort of a grassroots movement, maybe,
2 ballpark, a couple months ago. But, again, I can't
3 say with accuracy without checking my notes.

4 122. Q. In 2021?

5 A. In 2021, that's correct.

6 123. Q. And you described in your previous
7 answer, the group having enemies. Do you remember
8 that?

9 A. No, I don't recall the term "enemies"
10 being used.

11 124. Q. You don't recall using that word,
12 "enemy"?

13 A. The -- oh, sorry, I was using that --
14 yeah, and I made the quotation marks, right? So
15 that's a -- that's a colloquial term, right? A
16 colloquial phrase, referring, in fact, to myself, when
17 giving that story.

18 And that's because -- I won't rehash the
19 story, but, again, as I highlighted at the very
20 beginning, it's the idea that -- again, I follow the
21 science, scientific studies, you know, the randomized
22 trials for Ivermectin did yield outcomes, right,
23 conclusions that could be cited as scientific purview,
24 scientific literature, saying Ivermectin didn't seem
25 to be effective in those trials.

1 And so, as a consequence, that put me, as a
2 scientist, on the scientific foundation that would, in
3 theory, be at odds, therefore, with those who -- who
4 did know at that time or were confident at that time,
5 because of their experience with Ivermectin, that it
6 was an effective treatment. That's what I was
7 referring to. And, again, I remember giving the
8 quotation marks. So, yes, the term "enemy" was used,
9 referring to myself, as a colloquial term.

10 125. Q. And is there anyone else that that
11 colloquial term would apply to, an "enemy" of the
12 alliance?

13 A. Not that I'm aware of, no. I would
14 have no idea, no.

15 126. Q. There's no one who is out there
16 expressing the views that you expressed that led you
17 to describe yourself as a, quote, "enemy", unquote?

18 A. Oh, there are many that express those
19 views. But, again, I wouldn't rely on the people
20 expressing those views. I would refer to people to my
21 first report, where I detailed quite extensively the
22 scientific basis for this transition that I had from,
23 you know, initially relying on a very limited amount
24 of scientific evidence to what is now an overwhelming
25 amount of scientific evidence clearly showing that

1 Ivermectin is an effective treatment strategy.

2 And so, yeah, again, I don't rely on what
3 other people are saying or their opinions. I like to
4 follow the science. But the reality is that many
5 other people looking at that -- there's many others
6 who have looked at that same science, and, again,
7 because they -- if they're showing objectivity and go
8 with the weight of the science that has accumulated,
9 they would share those views.

10 Yeah, there are many people -- many people
11 in the world. I mean, there's countries that have
12 actively promoted the use of Ivermectin for the
13 effective treatment of COVID-19. So I -- yeah, I -- I
14 mean, I'm certainly not alone in those viewpoints.

15 And when it comes to the other -- the other
16 viewpoint that I mentioned is the vitamin D3. I mean,
17 again, I can't comment. You'd have to, you know, ask
18 specific immunologists, but, in general, I mean, it's
19 just basic fundamental immunology. Again, like I
20 said, it's why I included this lecture from my Basic
21 Immunology course.

22 Vitamin D is just understood, based on
23 thousands of published studies, to be a critical
24 component of the immune system and something that we
25 should have been actively promoting on that basis.

1 So, again, many, many experts who understand that
2 science, would share that viewpoint of mine.

3 When it comes to the vaccines, that -- that
4 is specifically something that -- you know, I have
5 shown you the literature that's been put together.
6 That messaging may not even be known by a lot of
7 people.

8 So scientists have known, like I said, the
9 science that's -- the reason why these vaccines are
10 potentially dangerous, and we realize now that we are
11 probably -- you know, we're inadvertently inoculating
12 people with what could essentially be defined as a
13 toxin in the circulation, remember that was well
14 established in the literature based on the
15 pathogenesis studies.

16 So we already knew that if that spike
17 protein on its own got into the blood, we knew it
18 could cause lots of damage. That's one of the reasons
19 why we argued we needed the vaccines, because you want
20 to prevent severe COVID-19 from happening, so you
21 avoid all of that damage when the spike protein gets
22 into the -- into circulation.

23 But we did not realize, like I said, because
24 we were going based on assumptions -- because the
25 thing is, we have to -- we have to move away -- with

1 the change of policies, we have to change the way that
2 we're approaching COVID-19 when the science tells us
3 it's time to move away.

4 And so, again, the original assumption was
5 that the vaccine was remaining -- the spike protein
6 was not getting into the blood, but rather remaining
7 at the injection site and/or going to the draining
8 lymph node.

9 So this literature that I mentioned to you
10 is -- is, you know, quite recent. So I can't say as
11 many people are -- would be aware now of this complete
12 connection that the science has made, because, like I
13 said, this particular report from the Japanese
14 government, I didn't -- I saw last week, and this
15 paper that was kind of the final link to this whole
16 cyclic chain was accepted for publication last week,
17 as well.

18 So there hasn't been as much of an
19 opportunity -- and, again, it's been accepted for
20 publication, so it's been fully peer-reviewed, but
21 actually hasn't appeared in its final version post-
22 proof in the -- in the scientific journal. So there
23 might not be as many people who are aware of the
24 dangers of the -- of the vaccine.

25 But that's the way I would answer the

1 question in terms of, you know, how many others may
2 share my -- my opinions.

3 127. Q. How does the alliance meet every week?

4 A. We meet online.

5 128. Q. And you receive an invite every week?

6 A. Yes, a Zoom invitation.

7 129. Q. And does the invite indicate who else
8 is invited?

9 A. No, it does not. The invitation --
10 well, to a certain extent. So the invitation that I
11 receive is given to the Steering Committee, and I'm a
12 member of the Steering Committee. But I don't see the
13 invitation that is sent to the broader membership.

14 130. Q. Does the Steering Committee vet
15 potential new members?

16 A. At the moment, the only, quote,
17 "vetting" that's done, because we're a developing
18 organization, is we would like to limit ourselves --
19 we welcome any -- any physicians, surgeons,
20 scientists, other health professionals, to join the
21 group right now.

22 We would like to restrict the current
23 members who are joining to those -- to that
24 demographic, largely. We haven't opened it up to
25 general membership -- so, for example, from the

1 general lay public -- because at this point we're
2 still, you know, establishing ourselves as a group and
3 we are, you know, discussing the science around COVID-
4 19, and we'd like that to do -- to be done largely
5 within the context of experts, you know, in the area
6 of COVID-19, before we get the general lay public
7 involved.

8 131. Q. Who decides who gets invited as a new
9 member?

10 A. Well, I mean, it's just been
11 traditional. The two co-founders of this group are
12 the -- are the people right from the beginning, right,
13 that have had a say over -- over who gets enrolled.
14 So I can't say exactly what the process is, but
15 exactly what -- but what we've agreed to is, you know,
16 simply bringing on-board people right now who have --
17 who appear to have deep expertise and objectivity when
18 it comes to the science underlying COVID-19. But in
19 terms of specifically how they do that recruitment,
20 that's out of my hands.

21 132. Q. There's no public application process
22 someone with the relevant credentials can use to apply
23 to your group?

24 A. Not at this point, no. We have --
25 we're in the process right now of designing a website.

1 We hope to go public in the -- you know, the
2 relatively near future. But as you can probably
3 appreciate, it's new, and for many of us this process
4 is new, because for many of us, we're scientists and
5 physicians, so we're -- you know, it's taking us some
6 time to navigate the process.

7 But, yeah, so we have -- we have no formal
8 mechanism that way, and that will come, hopefully,
9 once we have a website that can go live.

10 MR. RYAN: I'm going to pause, because we
11 appear to have lost Madam Reporter on the call, so I'm
12 just going to --

13 THE DEPONENT: Oh, okay.

14 MR. RYAN: -- allow her to rejoin.

15 THE DEPONENT: Okay, sure.

16 --- OFF THE RECORD (12:15 P.M.) ---

17 --- UPON RESUMING (12:20 P.M.) ---

18 BY MR. RYAN:

19 133. Q. The question I'll repeat is: There's
20 no way for -- there's no public process for an
21 academic or a physician with the relevant expertise to
22 apply to join the alliance, is that right?

23 A. That's correct. At this point in time,
24 we do hope to have a website go live at some point in
25 the future, and that'll formalize the process. But up

1 until now, it's been a grassroots movement, and so
2 it's just word-of-mouth that we're working with at
3 this point.

4 134. Q. A grassroots movement that doesn't
5 include any lay people from the public?

6 A. That's correct. Again, because we want
7 to stay focused at the moment at discussing and
8 organizing thoughts around the objective science
9 around COVID-19, and that's best done in a more
10 limited group of experts. But we do hope, once we're
11 formalized and have a website presence, we do hope to
12 be able to recruit anybody who's interested from the
13 public.

14 135. Q. And are you aware of the full
15 membership list or is that restricted to the two co-
16 founders you mentioned?

17 A. No, they, on a regular basis, update us
18 with the current e-mail list. So, yeah, so I'm aware
19 of, you know, the general numbers of people that are
20 part of the group.

21 136. Q. I take it you won't share that
22 membership list with us?

23 A. No. Again, without permission, I -- I
24 need to try and adhere to that for exactly the reasons
25 that have been cited in my most recent report, that I

1 want to honour the fact that many people feel
2 intimidated. And I already, admittedly, made a
3 mistake with two people already, that I shouldn't have
4 allowed to happen.

5 --- REFUSAL NO. 5

6 BY MR. RYAN:

7 137. Q. Are you a member of any other academic
8 groups like this, where the membership lists can't be
9 shared?

10 A. No.

11 138. Q. Is the alliance how you received the
12 letter from the College of Physicians and Surgeons of
13 Alberta, that you include in your Affidavit?

14 A. No. So typically what happens -- no,
15 absolutely not. That was not the source. I do not
16 use this group as a substantial source for my
17 research. That's done separately. As a researcher --
18 in fact, it's quite the opposite.

19 I am also -- also, I'm a member of the
20 Scientific Committee for this organization. And, in
21 fact, one of the things that I lean upon is to -- I'm
22 one of the people that helps to promote the scientific
23 roundtable discussions that occur.

24 139. Q. You told us earlier that you did the
25 redactions yourself from this letter from Alberta, is

1 that right?

2 A. Sorry, which letter specifically are
3 you referring to?

4 140. Q. So the letter at page 6 of your Reply
5 Affidavit, using the numbers in the lower bottom
6 corner, is dated April 20th of this year, it's from
7 the College of Physicians and Surgeons of Alberta. Do
8 you want me to put it on the screen?

9 A. Yes, please.

10 141. Q. Do you see it now?

11 A. Yes, now it has come up. Yes, so this
12 is correct. I was the one who, at the request of this
13 individual -- this was e-mailed to me, and in that e-
14 mail they requested that I anonymize the letter.

15 142. Q. So you have the original without
16 redactions in your e-mail?

17 A. That is correct.

18 143. Q. And you won't produce it as part of
19 this proceeding?

20 A. I can't. I mean, I have to honour, you
21 know, a fellow professional's request. I mean, not
22 even just a fellow professional, I would honour
23 anybody's request for anonymity, if that's the basis
24 on which they'd be providing information to me.

25 --- REFUSAL NO. 6

1 BY MR. RYAN:

2 144. Q. So we'll have to take your word for its
3 authenticity?

4 A. Yes, that is correct.

5 145. Q. And the letter refers to the College
6 speaking with the recipient on April 14th, 2021, do
7 you see that?

8 A. Yes, I do.

9 146. Q. And you were part of that discussion?

10 A. No, I was not.

11 147. Q. So you don't know if the bullets below
12 accurately reflect the conversation that was had
13 between the College and the recipient on that date?

14 A. This was reported on the College --
15 this is a letter from the College ---

16 THE REPORTER: Sorry, Mr. Bridle, I'm sorry.
17 Mr. Adamson's microphone came on and it sounds like he
18 may be in a vehicle, so I'm getting some feedback.
19 So, Mr. Adamson, if you're there, if you could put
20 yourself on mute, please?

21 MR. CHAND: I apologize on his behalf, Madam
22 Reporter.

23 THE REPORTER: That's okay, I ---

24 MR. CHAND: I'll send him a message
25 accordingly. Thank you.

1 THE REPORTER: No problem. Thank you.

2 THE DEPONENT: So to pick up -- may I
3 resume, Jody?

4 THE REPORTER: Yes, yes. Thank you.

5 THE DEPONENT: Okay, so, yeah, this is a
6 letter from the College of Physicians and Surgeons of
7 Alberta. So for myself personally, I have to take it
8 at face value that this is -- that they're relaying
9 accurate information in this letter.

10 BY MR. RYAN:

11 148. Q. And how do you know the licensee who
12 provided it to you?

13 A. This was -- when I was asked -- you
14 know, in thinking about this issue of -- you know, to
15 opine on the issue of potential intimidation that
16 people have experienced, I -- I reached out to some of
17 my physician colleagues and asked them if they or any
18 of their colleagues would be willing to share their
19 experiences and stories.

20 And I indicated that it obviously would
21 carry more weight if they were willing to have their
22 names associated with this, but I was also willing to
23 anonymize the letters, if required, so that's how I
24 received this particular letter.

25 149. Q. When you say "colleague", that's a

1 colleague in the Department of Pathobiology?

2 A. No. So specifically for this letter,
3 this would have been -- this would be a colleague in
4 Toronto, actually.

5 150. Q. In your Affidavit, you indicate you've
6 been invited to two conferences about COVID-19, is
7 that correct?

8 A. That is correct.

9 151. Q. And these were organized by
10 universities?

11 A. They -- I can't comment specifically on
12 which organizations were actively involved. They're
13 certainly academic members of university. At least
14 the majority of the Organizing Committee, is my
15 understanding. These -- I was contacted and invited
16 by academics that are located in New Zealand, and they
17 all have university affiliations, but I don't know if
18 it was formally organized through their -- through
19 their institutions.

20 All I can say with certainty is that they
21 are -- you know, they're academic scientists who
22 invited me.

23 152. Q. Is that common that you attend a
24 conference and you don't know who's organizing it?

25 A. Oh, I know who's organizing it. I

1 thought your question was: 'Was this organized
2 through a university there?' That, I can't comment
3 on. I can say they're academics all affiliated with
4 universities, but I don't know if it was a formal
5 university-sanctioned event.

6 153. Q. Was there a name for the conferences, a
7 title?

8 A. Yes, they were the International -- I
9 think the first one is International COVID-19
10 Symposium. I think they were both titled that,
11 actually. I believe they had subtitles, but I can't,
12 you know, recall exactly. If you want the exact
13 title, I'd have to look in my records.

14 154. Q. And was there any named group that
15 hosted both conferences?

16 A. Any named -- yes. It was sponsored by
17 -- I believe that they're called "Plan B" in New
18 Zealand.

19 155. Q. And what does "Plan B" refer to?

20 A. My understanding of their mandate is
21 that it -- so first of all, having talked to -- so,
22 again, this is based on conversations that I had with
23 the organizers and understanding what -- you know,
24 what exactly their mandate was.

25 And it is that -- so just so you have some

1 history, in New Zealand, they went into very strict
2 lockdown and isolation policy, where they strictly
3 locked down their borders and restricted international
4 travel.

5 And so it -- much along the lines of what we
6 had, right? Our original plan in Ontario made perfect
7 sense. We didn't know what we were dealing with at
8 the beginning of the pandemic, and so going into
9 lockdown like we did, right -- we had planned to go
10 into a lockdown -- a temporary lockdown for two to
11 three weeks to, quote, "flatten the curve", and that
12 refers to the daily number of cases that were being
13 tracked.

14 And then once our medical, you know,
15 community felt that we were able to handle the
16 stresses that may be imposed upon them, we were going
17 to learn to live with this virus, so... But since then,
18 you know, that never happened, and we have lacked --
19 like, at the moment, I still don't know.

20 It would be great if you or somebody else
21 could tell me what our current plan is, like what the
22 end goal is. Well, that's the same philosophy that
23 they -- that they have, right, is that, again, the
24 science has progressed a lot and these endless ongoing
25 lockdowns no longer are validated by the accumulation

1 of the massive amount of scientific literature that's
2 been generated in the last sixteen months.

3 And so this idea, this name "Plan B" is
4 literally that there needs to be a clearly defined way
5 out of this pandemic. And, you know, I share, as an
6 expert, many of the same philosophies that they have,
7 right, is that if we look historically, we -- we
8 should have -- the science told us that we're dealing
9 with a pathogen that, by all rights, we needed to take
10 very carefully at the beginning, because it was a
11 novel pathogen.

12 It was thought this could be something akin
13 to the Spanish Flu pandemic, right, that occurred in
14 1918. But it hasn't turned out to be that way. And
15 the reason why we actually declared the pandemic, if
16 we remember and go back to the beginning, was that --
17 the fear was that the -- what we're calling the
18 "infection fatality rate" with the SARS CoronaVirus-2
19 could be as high as between 1 percent up to 10
20 percent, which is -- which would be phenomenal. Like,
21 a phenomenally dangerous virus.

22 So what I mean by "infection fatality rate",
23 it's an equation. We have a numerator and a
24 denominator, and the denominator is the number of
25 people who get infected with the virus and the

1 numerator is the number of people who die once they're
2 infected with the virus. So it's called "infection
3 fatality rate".

4 So when you're talking about 1 percent, a 1
5 percent infection fatality rate, that means if you
6 have 100 people infected, one would die. And so
7 that's obviously, you know, a completely inappropriate
8 level to not respond to -- you know, with very strict
9 measures.

10 So our initial lockdown measures seemed very
11 appropriate. However, the science has changed
12 dramatically and we now recognize that the infection
13 fatality rate is nowhere near 1 percent. So just to
14 put this into a perspective, for a bad influenza
15 season, the infection fatality rate would be in the
16 ballpark of 0.1 percent.

17 So if we're talking about an infection
18 fatality rate of 1 to 10 percent, we're talking about
19 one to two orders of magnitude greater. So that was
20 the initial justification for declaring a pandemic,
21 because that's an unacceptable infection fatality
22 rate.

23 However, there have been several issues,
24 right, when calculating this infection fatality rate.
25 And unfortunately we've done a very poor job of

1 accurately being able to determine what the infection
2 fatality rate is in Canada. So we've had to rely
3 largely on other countries that have done a better job
4 of surveillance.

5 And what I mean by that is: Again, for
6 infection fatality rate, you have to know how many
7 people have been infected. And for that, we've been
8 relying on almost exclusively a PCR test, a polymerase
9 chain reaction test. And this -- and that tells us
10 how many, quote, "cases" we have, right, of infection
11 with SARS CoronaVirus-2. And then -- and the on the
12 other side, we don't even know how many die.

13 So, you know, we can do it -- we can get a
14 pretty accurate -- we've had a pretty accurate
15 assessment of the number of people dying from COVID-
16 19. The problem is we now know that at the beginning
17 of the pandemic, we had an incredibly inaccurate
18 denominator, because we had no appreciation at the
19 time for how many people were actually being infected.

20 So, in fact, if you remember at the
21 beginning of the pandemic, we were even limiting
22 testing of individuals for this PCR test, and that's
23 just because we didn't have the testing facilities
24 available. So early on, just, you know, people like
25 frontline workers were allowed to get the test. Many

1 other people were getting sick, but weren't allowed to
2 be tested, so we didn't capture that data. We don't
3 know how many early on were actually being infected.

4 And then we made some inaccurate
5 assumptions. So there was a government-run study -- a
6 government-sponsored study through Canadian Blood
7 Services that was -- and, of course, and it was
8 flawed, in that it was looking at blood donors for an
9 evidence of antibodies against the SARS coronavirus
10 and blood donors.

11 So this is important, because one of the
12 ways you can assess whether somebody's been infected
13 is whether they -- if they've been infected, they will
14 mount an immune response. And as part of that immune
15 response, antibodies will be produced, and these
16 antibodies will be in circulation in the blood. And
17 so this allows -- so this testing for antibodies
18 allows you to determine if somebody was exposed to the
19 virus.

20 So this study was done by Canadian Blood
21 Services and blood donors. But of course blood donors
22 are highly screened, and so these are incredibly
23 healthy individuals. These are actually individuals
24 who would, on average, be at relatively low risk of
25 infection of the SARS CoronaVirus-2.

1 Nevertheless, the assumption was that the
2 number of people that had been actually exposed to the
3 virus, therefore infected, was relatively low.
4 However, a landmark study was published out of -- in
5 British Columbia. Now, this is very important,
6 because what they did is they developed a very
7 comprehensive antibody test.

8 So the current -- the antibody test that was
9 used in the study for screening blood donors is one
10 that looks for antibodies against a spike protein.
11 Now, there's a couple of issues with that. A lot of
12 the antibodies against a spike protein will be
13 relatively short-lived and they disappear fairly
14 quickly.

15 So that actually led to an erroneous
16 conclusion early on, as well, in the pandemic, that
17 naturally-acquired immunity was short-lived. That's
18 not true. Immunity is confirmed by memory cells,
19 which are very long-lived. And it's been shown in
20 publications that memory cells of SARS CoronaVirus-2
21 are very long-lived. There was a paper published by
22 -- Asteti (ph) and Parrotti (ph) are the senior
23 authors -- co-senior authors. It clearly demonstrates
24 this.

25 Nevertheless, because those antibodies wane,

1 when there's no antibodies present, it doesn't mean
2 that somebody isn't immune. If they have these memory
3 cells, they can be protected against the virus. The
4 other thing is, the test tends to lack a lot of
5 sensitivity. The other thing it does is you can't
6 differentiate between naturally-infected and
7 vaccinated individuals, because in both cases, you'll
8 have responses against the spike protein.

9 So this test that was developed in British
10 Columbia assesses antibody responses against all of
11 the components of the virus. And when they used this
12 test, they randomly tested several hundred adults --
13 healthy adults in British Columbia, and remarkably
14 found -- in the Greater Vancouver Area, and remarkably
15 found that 90 percent of them had evidence of
16 naturally-acquired immunities against SARS
17 CoronaVirus-2.

18 And this is very important, because -- now,
19 admittedly, the percentage of people who are naturally
20 infected and acquired -- naturally acquired immunity
21 to SARS CoronaVirus-2, likely would be lower elsewhere
22 in Canada, because the Greater Vancouver Area is
23 considered to be, quote, "ground zero" for Canada.
24 Likely the entry point for SARS CoronaVirus-2, because
25 they have a very large Chinese-Canadian population,

1 that simultaneously have businesses in Canada and
2 China.

3 So it was thought due to the international
4 travel, that was likely -- you know, one of the most
5 likely places where the virus entered Canada. And,
6 nevertheless, if you think about that for a moment, so
7 if we're thinking, you know, and the assumption is
8 being made that -- so based on this Canadian Blood
9 Services study, right, the thinking was that fewer
10 than 2 percent of Canadians had evidence of having
11 been infected to SARS CoronaVirus-2.

12 But now if you look and we appreciate, at
13 least in the Greater Vancouver Area, as many as 90
14 percent may have been infected already, that
15 dramatically alters the denominator in this equation
16 for infection fatality rate.

17 And so, again, we haven't been good at
18 tracking this. Again, we've had to rely on
19 researchers who've been willing and able to find
20 funding to conduct these studies. But other countries
21 have tracked it, and so I cited this in my first
22 report.

23 That's where you'll find the paper. A very
24 important study was conducted, a meta analysis of
25 data, and this has updated the infection fatality

1 rate. So in other words, the current -- most current
2 and most accurate number that we have now suggests
3 that the true infection fatality rate is 0.15 percent.
4 So we're getting down to the ballpark of what you'd
5 expect for a bad flu season.

6 And also within that 0.15 percent, we know
7 very well with this pandemic and we've known for a
8 long time who the high-risk individuals are. They
9 are, for example, the frail elderly and those who are
10 immunocompromised. So if you go outside of those
11 well-defined demographics for the rest of the people,
12 the infection fatality rate drops to within the realm
13 of a typical annual influenza outbreak that we would
14 experience.

15 So had we known this at the beginning, a
16 pandemic would not have been declared, because that is
17 not an infection fatality rate that would be -- for
18 which one would deem a pandemic -- the declaration of
19 a pandemic would be necessary. But, again, we haven't
20 followed the science, so we're still -- we're still --
21 and it was declared a pandemic, but the data no longer
22 supports this definition of a pandemic.

23 And it's not like the infection fatality
24 rate has fundamentally changed. That infection
25 fatality rate was valid at the beginning, but it's

1 just we didn't -- we had inaccurately estimated what
2 the true infection fatality rate is.

3 It would still be an under-estimate because,
4 again, this study came out -- from British Columbia
5 came out after this. So it still suggests that we
6 probably don't know the full scope of people that were
7 infected, because we haven't tested everybody.

8 So children are a great example. Children
9 are often asymptomatic. They're very good at clearing
10 this virus from their bodies, right? And so if
11 somebody's asymptomatic, they're not going to be
12 tested. And so we're not capturing the full extent of
13 people who have been infected, so almost certainly the
14 infection fatality rate is even -- overall, is even
15 lower than 0.15 percent.

16 The other error in our calculation is --
17 with this, remember, is the testing, this PCR testing.
18 And this comes directly to what I was just talking
19 about with the children, who are asymptomatic, right?
20 One of the reasons again, you know, for example, why
21 we want to use these experimental vaccines is we're
22 declaring that asymptomatic individuals are at risk of
23 being super-spreaders of the virus.

24 And the problem with this is -- I guess it
25 doesn't make sense from an immunological perspective,

1 right? We're talking about a highly pathogenic virus.
2 And to have an individual who has so much of this
3 highly pathogenic virus in their body, that they're
4 shedding substantial quantities and they could put
5 others at risk of being infected, it makes no sense
6 that they wouldn't be experiencing any damage from
7 such a highly pathogenic virus.

8 And we know that these individuals who are
9 -- that clear the virus are -- develop immunity. And,
10 again, so it wouldn't be consistent for a person to
11 have a virus that they're shedding in substantial
12 quantities, if they're immune to the virus. And again
13 that's based on scientific literature showing that
14 immunity develops.

15 And the other key thing is that this relates
16 to the PCR test, right? So when it comes to the
17 asymptomatic -- this implication that asymptomatic
18 individuals can be substantial spreaders of the virus,
19 it comes from the PCR test, right? And this is very,
20 very important for us to discuss in the context of
21 this case, because what's missing in this is the PCR
22 test has been used, unfortunately, as a gold standard
23 test.

24 It's largely taken the responsibility of
25 diagnoses of cases of COVID-19 out of the hands of

1 medical practitioners, who would normally be using
2 that simply as one tool in their arsenal, one piece of
3 information in the arsenal they would use for
4 diagnosis. And also never -- never historically would
5 a PCR test on its own be used as the gold standard
6 test.

7 The PCR technology in and of itself is
8 accurate, but it has to be -- the interpretation has
9 to be made very carefully. So the gold standard test
10 for -- the gold standard virology test is a very
11 different test. It's a functional test, as you would
12 expect.

13 And what that is, is you take a sample --
14 so, for example, these nasopharyngeal swabs that we're
15 using to run these PCR tests, those samples could be
16 taken and half the sample could be used to run the PCR
17 test.

18 The other half could be used to run what we
19 call a gold -- the true gold standard test, which is
20 you take cells that have been stripped of all their
21 antiviral defence mechanisms, and it means these cells
22 are very permissive. We call them "permissive to
23 viruses". They get readily infected. And under a
24 microscope, if there is replication-competent virus,
25 or a virus that could potentially be infectious to

1 somebody else, it will replicate in these cells and
2 kill them. We call it "sadopathic effect".

3 And our own national microbiology
4 laboratory, early on in the pandemic, did run this,
5 and there's many other laboratories around the world
6 -- and, again, I've put in citations in my first
7 report about this -- and what they found is that there
8 was no evidence of -- and, again, this procedure, the
9 method varies from lab to lab. They even use
10 different sets of what we call "primers" that
11 recognize different pieces of genetic material from
12 the virus.

13 So what you have to do when you're running
14 this gold standard test, is what we should have been
15 doing is running this gold standard test alongside
16 every unique PCR method that's being employed. So,
17 for example, Public Health Ontario has their specific
18 method that they employ for the PCR test. So we'll
19 talk about that.

20 So the proper thing that Public Health
21 Ontario should have done is they should have run that
22 PCR test head-to-head with the gold standard virology
23 test to determine what their cut-off is going to be
24 for designating somebody as having been positively
25 identified as being truly infected with SARS

1 CoronaVirus-2 that could potentially be spread to
2 other people.

3 And what you do -- and what has been found
4 with these tests is that the -- this test is based on
5 cycles. It amplifies pieces of the genetic material
6 in the virus, and so with each cycle, if that genetic
7 material is there, you amplify the amount of that
8 piece of genetic material. And if it's there after a
9 certain number of cycles, you'll get enough of it that
10 you can detect it with this test method.

11 And so what has to -- what you have to do,
12 is you have to set off a cut-off. How many -- what
13 are the maximum number of cycles at which you detect
14 this piece of genetic material, right, would represent
15 a true positive test result. Meaning that sample has
16 a high risk of passing on transmissible SARS
17 CoronaVirus-2 for somebody else.

18 What the scientific literature tells us is
19 that cut-off, depending on the lab that's run it,
20 ranges anywhere from twenty-two to thirty cycles,
21 meaning that -- so, for example, if a laboratory has
22 defined that the cut-off is twenty-five cycles, that
23 means any -- if they detect any of that genetic
24 material at cycle numbers above twenty-five, there is
25 no evidence that that sample has potentially

1 infectious bioparticles in it, right? And so that
2 would not be somebody -- a person who would be at risk
3 of transferring the virus to others.

4 Now, this is very important, because in that
5 context -- so the cut-off, like I said, ranges from
6 twenty-two to thirty. If you -- now, if you line that
7 up, in Public Health Ontario -- so for Ontario, we've
8 been finding a case of somebody infected with SARS
9 CoV-2 -- worse, we often define them -- we're actually
10 defining them as cases of COVID-19.

11 That's a misnomer with medical technology.
12 COVID-19 is the disease that's caused in some people
13 by SARS CoronaVirus-2. So the actual thing is these
14 people were declaring them positive for the presence
15 of a piece of genetic material from this virus. And
16 the issue here is that, as you imagine, if we're
17 having the cut-off at thirty-eight, but the labs
18 around the world have told us that for sure above
19 thirty cycles, and maybe above as few as twenty
20 cycles, there's no replication-competent virus.

21 All of these cases we're declaring are of
22 people that have no risk whatsoever of passing on
23 potentially infectious viral particles to other
24 individuals. And what you find is that most of these
25 -- most of the individuals who test positive,

1 especially asymptomatic individuals -- and I put an
2 example of this.

3 I put an example of data from a paper that
4 was used to justify why we need to vaccinate
5 asymptomatic carriers, right, to try and justify this
6 idea that they put everybody else at risk of getting
7 potentially lethal COVID-19. And what you'll see is,
8 when you actually look at that, they actually have the
9 cut-off at thirty-eight cycles.

10 And then you see all these dots on these
11 graphs -- like, there's three graphs there -- and
12 that's because they look at three different -- they
13 ran three different PCR tests looking at three
14 different pieces of the genetic material from the
15 virus. Each of those dots represents a positive test
16 result.

17 But what I put on there, is I put on the
18 cut-off. If we go at the high end, that's thirty
19 cycles, and on the low end, twenty-two cycles. And
20 when you look, if you put it at thirty cycles, the
21 vast majority of positive results you see are not true
22 positives. If you actually have the cut-off at
23 twenty-two, you have zero. Remarkably, zero that are
24 positive.

25 There's one -- one test result that would

1 come up as positive, but in the other two PCR assays,
2 it's actually negative, so you would maybe call that a
3 "suspect" case of an individual that might have some
4 potentially transmissible virus.

5 So that's kind of the problem that we've
6 had, and this is why it's led to this incorrect
7 assumption that asymptomatic individuals can
8 potentially cause, you know, transfer or be a
9 substantial source of transmission to other people.

10 I mean, there's a case study that was done,
11 actually, in China that was published in a very
12 reputable journal -- and I cited that in the report,
13 as well -- where they were unable to detect any
14 substantial -- very, very few cases where they had
15 evidence of asymptomatic transmission in this large
16 study they did in China.

17 So that's important because that's part of
18 this -- of this Plan B. It shows that we can safely
19 migrate to another area to get out of these constant
20 lockdowns, right? Because we -- we don't have all
21 these individuals that we thought were spreading the
22 virus and putting everyone else at risk, right?
23 That's a key reason why -- you know, why we've
24 justified our lockdowns and isolation of individuals.
25 And again, like I said, so it relates to this -- you

1 know, to this -- to this PCR testing.

2 The other one that we have concerns about
3 right now, right, in terms of this -- again, defining
4 what this Plan B is, or an alternative way out, is the
5 other reason why, you know, we've been afraid to move
6 out of these lockdowns more recently is because of the
7 SARS CoV-2 variants, right, and this argument that
8 they're more dangerous.

9 So there's no question the variants -- some
10 of these variants have modified their spike protein in
11 a way that does allow them to bind with higher
12 affinity to this receptor that allows them to infect.
13 So they can potentially be more transmissible, but
14 there's no evidence so far -- no scientific data to
15 suggest that they are more dangerous, that they cause
16 more lethal COVID-19.

17 And I would argue all the more reason to
18 allow the people for which they are -- for which they
19 are at low risk of COVID-19 to acquire the natural
20 immunity. The reason being is the benefit of natural
21 immunity is very broad-based. When somebody mounts a
22 natural immune response to this virus, they're going
23 to mount immune responses to all the components of
24 this virus, and they get a very balanced response.

25 The vaccines -- the Messenger RNA vaccines

1 we're now limited to here in Canada are very good at
2 inducing antibodies, but they don't induce
3 particularly robust T cell responses. That's a
4 critical component to the immunity against this virus.

5 The other thing is, is the vaccine induces
6 very limited -- a very narrow scope of immunity
7 focused on the spike protein. And a good example --
8 and so what that requires is -- with these novel
9 variants, as we've been seeing, is when they mutate
10 their spike protein.

11 Because all it's going to take is a novel
12 variant that can sufficiently alter its spike protein,
13 such that it can evade vaccine-induced immunity, and
14 all the vaccinated individuals in Canada will be at
15 risk. Whereas those who have acquired natural
16 immunity will have these very broad-based and balanced
17 immune responses that will be highly cross-reactive,
18 because these novel variants are not going to be able
19 to change all of their components without affecting
20 their own fitness for survival.

21 And so the people who have acquired natural
22 immunity, which is long-lasting, will certainly be
23 protected from -- to a certain degree from these novel
24 variants, if not from infection altogether, at least
25 from severe and potentially lethal disease by novel

1 variants.

2 So if we keep -- stay in these lockdowns,
3 the concern is we are applying with these -- so I have
4 concerns on the safety side, as I already pointed out.
5 But also with these vaccines, as a vaccinologist, I'm
6 concerned by whenever you apply narrowly-focused
7 immunity, immunological pressure, on a biological
8 entity that is prone to mutation like the SARS
9 CoronaVirus-2 is, you help select for variants that
10 can evade that pressure.

11 We've seen this in the context of bacteria,
12 where if we inappropriately use antibiotics,
13 antibiotics that haven't been shown to be lethal
14 against the virus, or we don't administer the
15 antibiotics at a high enough dose, or for a long
16 enough duration, we promote antibiotic resistance.

17 In cancers which are very prone to mutation,
18 if we don't kill them upfront with a chemotherapy or
19 radiation therapy, what we end up doing is we drive
20 the emergence of recurring tumours that are highly
21 resistant to radiation and/or chemotherapy.

22 And the same thing can happen here. So we
23 have to be very careful. My concern is if we keep in
24 these lockdowns and rely entirely on these vaccines
25 that have key safety issues and that are overly

1 narrowly focused in the immunity that they confer,
2 that we're going to leave people very open to -- we
3 may have the emergence of more dangerous variants.

4 So right now, the variants are not more
5 dangerous in the context of disease severity. But
6 there's a possibility of them emerging, so all the
7 more reason for us to abandon this method that may
8 promote such a thing occurring. We don't want to be
9 exposed to -- you know, I would not then want to be
10 naturally exposed to a future highly pathogenic
11 version of SARS CoV-2, one that might genuinely have
12 an infection fatality rate of between 1 to 10 percent,
13 because then we'll have no choice but to go into very
14 strict lockdowns.

15 And so these are the kind of aspects, right,
16 that lead to this Plan B. And so we're like-minded in
17 that sense. And that's what they're seeing, as well,
18 that there are a lot of shortcomings the science no
19 longer justifies. There was full justification --
20 full justification, like I said, for lockdowns at the
21 beginning, because we didn't know what we were dealing
22 with.

23 But the science has progressed so far, we
24 know what we're dealing with, we could safely let --
25 for all those for whom the SARS CoronaVirus-2 is

1 really no more dangerous than your annual flu virus,
2 and we know who these individuals are, we could remain
3 -- keep the high-risk individuals isolated, right.

4 And so really we focus the isolated
5 quarantine on the high-risk -- the few high-risk
6 individuals, let the rest of us learn to live with
7 this virus. Like I said, based on the study out of
8 British Columbia, we are -- we already may be very
9 close to herd immunity.

10 Once we have achieved herd immunity, then
11 these high-risk individuals would no longer be at
12 risk, because we will -- we will have achieved our
13 goal of herd immunity and the virus will no longer be
14 a risk to these other individuals.

15 Honestly, in my -- in my professional
16 opinion, had we -- we had the information and the
17 knowledge to do this quite some time ago, and had we
18 done that, it's my honest professional opinion that
19 there -- that we would have saved a lot of Canadian
20 lives.

21 We have had much -- we would have reduced to
22 an unknown extent mortalities and morbidities
23 associated with severe COVID-19, had we done that
24 quite some time ago. We had the scientific evidence
25 to comfortably back that up. And of course the final

1 link here is none of us want to remove the lockdowns,
2 and so even individuals who -- you know, if we talk
3 about low-risk demographics, I understand that people
4 still don't want to be -- you know, they don't want to
5 take the risk of being one of the few, even though
6 they're a low-risk demographic, that does acquire, you
7 know, a fatal COVID-19.

8 So, you know, even if you look at the amount
9 of children, we've only had three children -- well, we
10 had three Ontarians under the age of 20 die in sixteen
11 months. Just to put that into perspective, that's in
12 the same ballpark with the number of young people in
13 Ontario that would die in that same period of time
14 outside of a lockdown from lightning strikes,
15 remarkably, right? Which is an incredibly low-risk
16 event.

17 But, granted, you know, you still don't want
18 to necessarily be in that low-risk group, but that's
19 the whole point. That's why I've also emphasized, as
20 an expert witness, that we have several great early
21 treatment strategies in our arsenal to ensure that the
22 few people -- the very few people who, if we move away
23 from these lockdowns, who might be at risk of COVID-
24 19, the vast majority of them could be readily treated
25 with these -- these effective early intervention

1 strategies.

2 So we do have a safe way out. I like to
3 view it as if there's a -- if we have a -- we view it
4 like a plane, right? We got into the lockdown, that's
5 fine. But since that time, there's been more harm, I
6 believe, than good caused by the ongoing, you know,
7 cyclical lockdowns that have been occurring. So I
8 kind of view it like a plane in a nosedive, right?
9 And we've had no plan stated to get out of this
10 nosedive.

11 But what I just highlighted, right -- again,
12 I'm not a policymaker, I can just provide you with the
13 science behind this and scientific ideas. But I do
14 believe when equipped with this science, our
15 policymakers could find a way for -- to get us out of
16 this nosedive and make a gentle landing, if I can put
17 it into, you know, sort of a visual representation
18 that way, and through what I just said.

19 And so that really represents the, quotes,
20 "plan B". That's what I have viewed as a logical plan
21 B. And it's my understanding that this group in New
22 Zealand, that's the type of plan B, as well, that they
23 envision, based on following the science. So on that
24 basis, they saw me as an international scientist who,
25 again, has been following the science and come to that

1 same conclusion of a similar plan B. And that's why I
2 was invited to both of these symposia.

3 156. Q. You refer in your Reply Affidavit to
4 the infection fatality rate for the flu, is that
5 right?

6 A. Yes.

7 157. Q. And you don't include in your Affidavit
8 the absolute number of fatalities that that fatality
9 infection rate results in, in Ontario for any years?

10 A. No, actually, yeah, I haven't been able
11 to actually find good reliable data on that.

12 158. Q. You didn't include the number of days
13 of work lost due to the flu annually in Ontario in
14 your Reply Affidavit?

15 A. No. In terms of days of work lost,
16 that's not the kind of data that's in my area of
17 expertise.

18 159. Q. And you didn't include an absolute
19 number of fatalities for North America from the flu?

20 A. No.

21 160. Q. And you don't favour any interventions
22 that would reduce transmission of influenza?

23 A. I absolutely do. I'm glad that you
24 raised that. One of the things that I'm hoping that
25 comes from this pandemic is a general understanding

1 from the public of what I would call "basic hygiene"
2 or "health" -- oh, what's the term I'm looking for?
3 So I can't think of the term offhand that I'm thinking
4 of. But I guess general respect to others in the
5 context of Public Health.

6 So, I mean, I, for a long time -- for a long
7 time, have -- so I have -- I mean, I have children.
8 And so when they -- when they were in elementary
9 school -- and my youngest is still in elementary
10 school -- I did some volunteer time, right, helping --
11 helping get -- one of the things I did, as an example,
12 as a volunteer activity as a parent, was going into
13 the school.

14 I'd arrive just before recess and help --
15 help the teacher and the teacher's assistants get some
16 of the kids ready, dressed in their winter clothes so
17 that they could out to recess. Because without a lot
18 of adults there, by the time a few adults -- you know,
19 a couple of adults get them all dressed, it's time for
20 them to come in from recess.

21 And, you know, so I can tell you, any person
22 who's been in elementary schools, again during --
23 whether you call it "cold and flu season" or "low-
24 vitamin-D-level season", right, is there's a lot of
25 illness that travels through the schools. And

1 workplaces, right? If we put a high -- if we put a
2 spotlight on those like we have with SARS CoronaVirus-
3 2, right, like I said, the infection fatality rate
4 tells us that we're getting into that ballpark,
5 especially when you get out of the high-risk
6 demographics.

7 And sure enough, if we put the spotlight, it
8 would seem very scary at any institution. You can
9 imagine in a school, if we reported: Okay, here's a
10 child in a classroom that has tested positive for the
11 influenza virus', right? Then the next day, three
12 have tested positive. Now the next day, it's ten,
13 plus there's two children in another classroom. Then
14 the next day, there's four classrooms involved.

15 This happens year after year, right, in our
16 schools, and we don't really think a whole lot about
17 it. And the issue here is, you know, people who are
18 working -- you know, if you have both parents working
19 or it's a single-parent family, like, it's just not
20 uncommon for people to send children who clearly are
21 sick -- clearly are sick with a respiratory pathogen
22 to school.

23 And there is no question that, for example,
24 strict lockdown measures prevent that. We have to
25 look no further than the current lockdown measures.

1 We have had a reduction in the cases of the annual
2 flu. So I'm not promoting this, but, again, I'm just
3 trying to put it into a risk/benefit analysis
4 perspective, right, so people can properly assess the
5 risks.

6 So if it's true that these kind of lockdowns
7 would help prevent the spread of influenza virus, then
8 the question as a society is: Are we going to start
9 implementing this every cold and flu season, you know,
10 for -- I don't know, four to six months of every year,
11 every year moving forward?

12 It would be a partially effective strategy
13 for reducing the incidence of severe influenza and
14 potentially fatal influenza. And what is different
15 about influenza as compared to SARS CoronaVirus-2,
16 right, which is very unique, is that SARS CoronaVirus-
17 2, okay, is almost exclusively a very high-risk
18 pathogen in the very elderly.

19 The older a person is, the more at risk they
20 are. And those that are at particularly high risk are
21 what we call the "frail elderly". So very elderly
22 individuals with other health conditions. Children.
23 The younger we go with SARS CoronaVirus-2, the less
24 dangerous it is.

25 But this is not true for the influenza

1 virus. The influenza virus kills not a lot, but some
2 Canadian children every year. And this I can
3 certainly attest to, because within my own school
4 district a few years ago, we had, unfortunately, a
5 case in one school of two young children dying from
6 the influenza virus.

7 So, you know, I've seen this. I've
8 witnessed this with my own eyes in our school
9 district. And that's kind of unusual, because there's
10 not a lot of deaths. But the reality is there's more
11 deaths on an annual basis from the annual influenza
12 virus than -- than we've seen from -- from the SARS
13 CoronaVirus-2. And so this is the issue with
14 influenza.

15 So then we ask, you know: Do we want to be
16 in these type of lockdowns? Well, when we look
17 historically, we've agreed as a society: No, we're
18 not going to compromise. We're not going to destroy
19 our economy, and we are not going to compromise
20 people's mental health, we're not going to shut down
21 businesses, you know, to prevent the spread of the
22 influenza virus, again because the infection fatality
23 rate is not of pandemic proportions. We've accepted
24 that as an acceptable risk for the trade-off of our
25 quality of life.

1 Now, the one thing that I want to point out
2 is -- because it's great that, you know, you've got,
3 for example, the influenza. I want to point out
4 there's actually something -- so in other words, what
5 I'm getting at -- one of the things that I'm getting
6 at here is: What I hope people have learned is, you
7 know, if -- in the future, once we get out of this
8 lockdown, right, when somebody does have an infectious
9 disease, especially when it's infectious diseases that
10 can put our young at risk of death and severe illness,
11 like the influenza virus, you know, please don't send
12 your child to school.

13 I hope we've learned that as a society.
14 Please do not send your child to school when they are
15 coughing and sneezing. I think I mentioned, when I
16 was putting on this clothing -- you know, like, winter
17 clothing, I couldn't believe it, I was tying up one
18 boy's shoe, and, I mean, I looked up just at that last
19 second just to kind of smile at him as I was finished
20 tying up -- or his winter boot, and he sneezed all
21 over my face. All over my face. You know, I'm
22 thinking: My goodness, you know, right in the middle
23 of cold and flu season/low-vitamin-D season.

24 So these -- so I hope that's one thing that
25 we learn is: Please do not send your children if

1 they're actively coughing, and hacking, and sneezing
2 to school to spread these infectious diseases, right?
3 And if that -- if that is the case, maybe keep them at
4 a little bit of a distance.

5 Now, I mean, the other thing is, we never
6 apply masks to the influenza virus, but this -- this
7 is a very important distinction. Masks actually might
8 -- could, in theory -- I'm not promoting this. Again,
9 as a society, we've decided that this is not something
10 we're going to do for influenza virus. But this is
11 the whole thing: Masks can do a reasonable job at
12 preventing the spread of the influenza virus.

13 But it is -- we now know -- and that is
14 exactly why. And I had no problem with the masking
15 policy at the beginning of the pandemic. Again,
16 because we didn't know, we didn't have the science
17 specifically for SARS CoronaVirus-2. So we had to go
18 based on historical scientific evidence and make
19 assumptions. And the assumption was that this virus
20 was going to be like the influenza virus.

21 And a majority of infectious respiratory
22 pathogens are passed from our respiratory system on
23 large water droplets. And what's interesting -- or
24 what's important to note is these large water
25 droplets, right, because they're large, and these

1 droplets -- I mean, scientifically, we define these
2 large water droplets as being up to what we call 500
3 microns in diameter.

4 But the point is, under the force of
5 gravity, these large water droplets typically fall to
6 the ground within 1 metre or, interestingly, maximum 2
7 metres away from us. That's where we came up with
8 this 2-metre distancing -- physically-distancing
9 policy.

10 Also, at 500 microns, you know, are larger
11 -- these larger water droplets are large enough that
12 the pores -- the pores in what we call a "low-cost
13 mask", right, whether they actually be a 3-ply
14 surgical mask like this one, which we consider a
15 higher-quality mask, or the cloth masks that many
16 people are using, right -- again, I cited this
17 scientific study. Again, it's published science.

18 So the pore sizes in these masks, right,
19 range -- in these low-cost masks range -- and there's
20 usually a variety of pore sizes within a mask, because
21 they're not strict quality control measures making
22 sure that every pore in the masking material is
23 exactly the same size. So they range from usually 80
24 to 500 microns in diameter, the pores, right?

25 Now, this is where it's important.

1 "droplet nuclei". These are very tiny water particles
2 that are 10 microns in diameter or smaller. And now
3 this is -- so this is the important thing here, right,
4 is as I mentioned -- so if we go with the largest
5 possible water droplet, right, in an aerosol, then
6 what you come to understand is 60 microns.

7 And then the other thing you need to know is
8 the virus, the SARS CoronaVirus-2 particles is
9 approximately 1 micron in diameter. Well, if you have
10 the largest droplet that's present in a -- an aerosol
11 at 60 microns, then you coat it -- it's coated with
12 the virus particles, that means it's a diameter now --
13 it's going to have one virus particle on either side,
14 so it's -- so the maximum diameter is 62 microns.

15 The maximum size of a virus-laden small
16 droplet. And as I mentioned, that the smallest pore
17 size in our low-cost masks is 80 microns. So once you
18 realize that, what you realize is that for this virus,
19 the way it gets out of our respiratory system, with
20 these masks, it doesn't respect these masks
21 whatsoever, for it -- it is akin to us being placed in
22 a barn, and then somebody leaving the massive barn
23 doors open, and then trying to be confident that we
24 are now locked into that barn. There's no way we can
25 possibly get out of that barn.

1 The reality is, the virus, because it's --
2 because it's coming out on these particles that are so
3 small, in most cases way smaller -- because, remember,
4 the maximum pore size in these masks is 500 microns,
5 but we could be dealing with the virus coming out on
6 particles that are smaller than 10 microns.

7 I just want to show you something very
8 quickly, because I actually have this for teaching
9 purposes. So this is representative of the largest
10 pore size in a low-cost mask. So this would be
11 representative, if we're doing it on scale, of a 500-
12 micron pore size in a low-cost mask.

13 This is the size -- and I've added the
14 diameter that would be equivalent to adding -- if this
15 was coated entirely with the virus, this, by scale,
16 would be the size of the largest water nuclei laden
17 with the virus. So I think, you know, you can
18 appreciate that low-cost masks are not going to stop
19 this transmission.

20 And so the reason why this is important, of
21 course, is when we're talking about the masking, is
22 this means that all this masking that we're enforcing
23 -- and I have -- I have honoured it, because I'm, you
24 know, a law- and rule-abiding citizen and I have made
25 sure my -- you know, I'm teaching my kids that you

1 don't disobey the rules just because -- even when you
2 know they're wrong. Rather, you try and effect
3 change. Which is one of the reasons why I'm talking
4 here today.

5 So these -- and I've done -- and I've done
6 demonstrations. As a matter of fact, as part of my
7 second report, I submitted a short video that
8 documents exactly what I've shown you, right? And the
9 other thing with the masks and even beyond -- and
10 that's assuming your breath is going through -- is
11 being forced through these pores.

12 And also in my first report, I showed -- I
13 showed pictures. And in the video for my most recent
14 report, I actually went to the point of saying, "Okay,
15 I'm going to put on five masks. We've been told we
16 can put on more". I actually have my right ear
17 pinned. I don't know if you noticed, but it actually
18 sticks out more from my head now than my left one, and
19 that's from the masking, actually, informing this.

20 And so I, in that video, actually put five
21 of these masks on, my ear pin wouldn't support it.
22 But the point is, when I put the five masks on and
23 sealed it around my lips so there was no leakage,
24 right, I was able to fog up my glasses. When we fog
25 up our glasses, like I just have, right, that fogging

1 that's happened, that's the aerosols coming out of my
2 lungs.

3 And I was able to fog up my glasses through
4 fifteen layers of these higher-quality, you know, 3-
5 ply surgical masks. And so this shows the futility of
6 masking, now that we know that the primary mode of
7 transmission is through these aerosols. But still,
8 the other issue that I wanted to point out is: That's
9 if, you know, you have a properly -- a properly-fitted
10 mask.

11 A properly-fitted mask is actually one that
12 would be sealed around the skin. None of us would be
13 allowed to have a beard like I have, because that
14 provides, you know, a filtering material that keeps my
15 mask actually away from the skin, that obviously has
16 massive pore sizes.

17 And so what happens when we put on these
18 masks, is we're actually blasting air -- air is always
19 going to primarily take the easiest route out, so
20 rather than going through the mask, we know the leak
21 points are around the nose and at the back, you know,
22 going past our ears. So there's these leaks.

23 So we simply breathe out these aerosols,
24 these clouds of aerosols, and if we are -- if somebody
25 does have a really well-fitting mask, the aerosols is

1 going to pass through them anyways. So this is what
2 I'm trying to point out, right, is that the -- the
3 masks clearly -- now that we know that they are --
4 that this virus is being spread by aerosols, again we
5 need to follow the science. It just doesn't make
6 sense, masking.

7 So when I see our children -- for example,
8 when they were in school in person in Ontario, and all
9 the places we were going to, I mean, I know as a
10 scientist, this is crazy. If anybody was okay being 2
11 metres from me in any public location, I knew, as a
12 scientist, that there was no valid reason why we
13 couldn't be standing there without our masks on.
14 That's just the reality.

15 Because I know as a scientist, I'm looking
16 at them and saying: If this person is really infected
17 with SARS Co-V-2, if I really thought they were
18 infected and I was scared of this virus, there's no
19 way I'm going to be standing 2 metres away with their
20 mask on, because it's doing nothing with the aerosols
21 that they're firing my way. That's just the reality,
22 right?

23 And so anywhere that we've been comfortable
24 now with the masking, we should -- knowing the science
25 behind this now, we should be equally comfortable

1 being in those same social scenarios without the
2 masks, because that's what the science tells us.

3 And then, of course, what you say to that
4 is: But, you know, we were told that these masks are
5 an effective -- and is physical distancing, which was
6 based, again, on the science behind the large water
7 droplets and that mode of transmission, right? We
8 were told, thinking -- people were thinking that they
9 were protected. And so when they actually thought
10 they were being protected, they weren't.

11 We were actually putting people in
12 potentially dangerous scenarios, because if you really
13 thought somebody has SARS CoronaVirus-2, and you know
14 it's being spread primarily in aerosols, and you're
15 really afraid of the virus, and you really want to
16 stop transmission, you are not going to go near
17 anybody with a mask or within 2 metres. That's just
18 how it is. That's what the science tells us.

19 And so then people would say `Well, if
20 that's true, what you're saying as a scientist is that
21 when we've been out thinking -- we've been told we've
22 been protected, what you're telling me is the science
23 now understands that this is not like influenza virus,
24 that this virus actually travels rather than on large
25 water droplets primarily, these tiny aerosols, that

1 would suggest that many of us have probably
2 unknowingly been exposed to this virus'.

3 And then I go back to this study, this
4 hallmark study done in British Columbia, which again
5 showed that when they randomly test 90 percent of
6 people -- of adults in the Greater Vancouver Area,
7 they found evidence of pre-existing immunity in 90
8 percent of them. And which is exactly what you would
9 predict if people are artificially walking around
10 thinking that they're restricting the transmission of
11 the virus.

12 And so that's a key difference. So in other
13 words, yes, I hope that people will take this into
14 account, will realize that there are certain
15 protective -- so knowing this as a scientist, if I get
16 sick in the wintertime and I have to come into work,
17 because I have to -- I'll be honest, my preference is
18 that we show respect to our fellow citizens, and if
19 we're sick, we should not be going out into public
20 spaces.

21 But I'll admit, I sometimes break my own
22 goal that way, because my job is just so demanding.
23 There are certain things that, unless I feel too ill
24 to perform my job, I feel I do have to come in. And
25 what I do is, because I don't know if it's the

1 influenza virus, I will wear a mask. And that is
2 because masking is partially effective in the context
3 of influenza viruses, okay?

4 And I try and stay away from people. And I
5 forewarn them that I'm sick. And so if I have to go
6 into a room -- if it's a meeting, I will sit off at a
7 distance, because it makes sense for influenza virus
8 that travels largely on these large water droplets.
9 But for SARS CoronaVirus-2, the science tells us that
10 that -- we know that is false now.

11 And, again, we need to follow the science
12 out of these policies that are harming people.
13 There's no question that these masks can be harmful.
14 Children, when they're in a school setting -- and a
15 lot of our communication is based on reading facial
16 expressions, and, you know, we're removing that from
17 them.

18 We're also -- this -- this will affect -- I
19 mean, when any of us put it on, especially if you're
20 wearing a mask and you go outside, and you're
21 breathing, and you take the mask off, it's amazing how
22 fresh that air feels. That air, you know, when you
23 inhale it.

24 And that's because, of course, you are
25 slowing down the escape of the air through these leak

1 points, and what we're doing is we're actually slowing
2 down the air exchange. We're allowing some build-up
3 of carbon dioxide behind these face coverings, right?
4 So it's not stopping the aerosols, but it is slowing
5 down the removal of carbon dioxide from our lungs. So
6 we are actually having some measurable impact on
7 oxygen level, right, that we're breathing in.

8 And the other thing, of course, is -- so
9 there's a number of harms, and I'm not going to go
10 into all the details, because that was in my report,
11 all the potential harms, as well. But just recognize
12 that there are harms.

13 So if there's harms associated with this and
14 its benefit now is -- it's established scientifically
15 as being absolutely minimal at best, right, again, as
16 a scientist -- as scientists, we have to do this
17 risk/benefit analysis. If the whole idea always,
18 always, always, always in medicine, right, is 'do no
19 harm', you can also view it as 'do as little harm as
20 you need to'.

21 And so what that means is: Any time you're
22 dealing about medicine, you evaluate the problem
23 you're trying to deal with and you look at the
24 solution you're applying. And any time the solution,
25 you know, is deemed to be more harmful than the

1 disease, you never apply the solution, okay?

2 So scientifically now, the data shows us
3 that the potential harms of masking outweigh the
4 potential benefit of masking in terms of restricting
5 the transmission of SARS CoronaVirus-2. So, yes, the
6 annual influenza virus is a great example of how,
7 hopefully, people will have learned a lot about jus
8 basic social hygiene when it comes to respiratory
9 infectious diseases.

10 But we also, by using that as an example,
11 now know that we can't -- we no longer can apply the
12 assumptions from all of our experience with influenza
13 virus to dealing with the SARS CoronaVirus-2. It's a
14 completely different pathogen, it behaves differently,
15 spreads differently, and we have to move away from
16 using the traditional strategies that would have been
17 effective against viruses like influenza virus.

18 161. Q. You received provincial funding to
19 develop a vaccine for COVID-19?

20 A. That is correct. Both provincial
21 funding and federal funding.

22 162. Q. And is the vaccine you developed being
23 administered in Ontario today?

24 A. No. Again, like I said, I was
25 commissioned to start developing a vaccine at the pre-

1 clinical level. So what I actually have, is I have a
2 number of vaccine platforms that we were developing,
3 actually, for use in the context of cancers, and we --
4 but we were able to -- a vaccine platform is quite a
5 -- modern vaccine platforms are quite flexible in that
6 once the technology is -- once we have the technology,
7 we simply have to insert into that vaccine technology
8 a target -- what we call a "target antigen".

9 Something that's dangerous to the immune system.

10 So what these vaccines were originally were
11 designed for was to put in a piece of -- like, a
12 protein from cancers -- or multiple proteins from
13 cancers to educate our immune systems that these
14 cancer cells are dangerous and, therefore, to go and
15 kill them. So it was quite easy to switch these over
16 to COVID-19 vaccine platforms.

17 And, again, as I mentioned, because -- you
18 know, at the beginning of the pandemic, the very
19 logical target was the spike protein, because that's
20 the first target you look for. You always ask
21 yourself -- when it's a novel virus, the first thing
22 you want to know is: What protein on that virus is
23 responsible for allowing that virus to get into cells?

24 Because if you -- the ultimate goal of a
25 vaccine is to achieve what we call "sterilizing

1 immunity". "Sterilizing immunity" means the virus
2 cannot replicate in your body. Our T cells are very
3 good at getting rid of the virus after they've
4 infected cells, so you want those T cells for when the
5 virus can bypass the antibody response.

6 But the reason why there's been such an
7 emphasis on the antibody response is that if you can
8 get neutralizing antibodies -- and these have to be
9 the appropriate antibodies and the appropriate
10 location.

11 Ideally, what we want is what we call
12 "secretory IGA" type of antibodies in our upper
13 airways. And we want that because these antibodies,
14 when they bind to a virus, they don't cause much
15 inflammation, and you don't want inflammation in the
16 lungs, right? The whole -- the whole problem with
17 severe COVID-19 is severe inflammation occurring in
18 the lungs, right? That's why it's called "severe
19 acute respiratory syndrome".

20 So this is the goal. So that's the logical
21 target. So we also picked the spike protein, because
22 if you can get antibodies that neutralize that spike
23 protein, the virus can't infect any cells and you
24 achieve this ultimate goal of a vaccine of sterilizing
25 immunity.

1 Now, the vaccines that have been generated,
2 we now know, do not come anywhere close to generating
3 sterilizing immunity. In fact, there is incredibly --
4 you know, an incredible amount of data mounting that,
5 at best, there's a non-peer-reviewed, you know,
6 article -- a pre-print article that was submitted, and
7 this is probably the best I've seen, and it does
8 suggest that the risk of transmission may be reduced
9 up to 50 percent post-vaccination.

10 And we do know that the vaccines are pretty
11 good at dampening the severity of the disease. But
12 people are -- there's all kind of breakthrough
13 infection -- called "breakthrough infections" that are
14 occurring. What a "breakthrough infection" is, is
15 after somebody's been fully vaccinated, they -- they
16 get infected with the SARS CoronaVirus-2.

17 This is not what we wanted to see with these
18 vaccines, right? And these breakthrough infections --
19 and we are seeing some cases where they're fatal. We
20 were being told they were stopped, because in the
21 clinical trials -- because you always have to remember
22 with these manufacturers, you know, rushing these
23 vaccines so quickly, that we have not -- these
24 companies have not finished full-scale clinical
25 trials.

1 So in their limited datasets, it suggests
2 that there was 100 percent effectiveness against -- in
3 the context of preventing severe COVID-19. However,
4 we now, in the real-world rollout, you know, have
5 clear evidence of people dying from severe COVID-19
6 after being fully vaccinated. So we call these
7 "breakthrough infections".

8 And one of the concerns, actually,
9 interestingly, and it's really relevant to
10 interpreting the data that we've been talking about,
11 is the -- in the United States, the Centers for
12 Disease Control, interestingly, were -- were starting
13 to report the number of breakthrough infections.

14 But if you actually go to the CDC's website,
15 you'll see that it was hitting quite a high number,
16 and it was alarming to people, so they actually posted
17 -- if you go to their website -- and I would think
18 it's still there. I can't guarantee you, but it was
19 there as of, you know, a week ago.

20 They have a posted notice that they were no
21 longer going to report breakthrough infections for
22 anybody -- for any cases that were deemed mild or
23 moderate, only for severe, or potentially lethal, or
24 confirmed lethal cases of COVID-19 after being
25 vaccinated. So that, of course, is going to skew the

1 numbers, so we're not going to have a real
2 appreciation for the true number of breakthroughs.

3 The other thing related to this PCR testing
4 that I mentioned to you, which is interesting and I'm
5 bringing this up because as a -- just as a
6 forewarning, right, that hopefully Ontario -- Public
7 Health Ontario will not adopt this strategy in terms
8 of -- in terms of looking at the numbers, is the CDC
9 now has advised, when testing for evidence of the SARS
10 CoronaVirus in suspected cases of breakthrough
11 infections, they are dropping their cut-off for
12 positive -- positive test results from thirty-eight,
13 which is the same we currently have and for Public
14 Health Ontario, down ten cycles to twenty-eight.

15 Interestingly, that puts them in that range
16 of what I was telling you about, where you start
17 having a reasonable confidence that positive test
18 results at twenty-eight cycles or lower do have a
19 reasonable chance of being indicative of the presence
20 of potentially infectious viruses.

21 Whereas, you can imagine if you're dropping
22 that now, that bar down ten cycles to define
23 breakthrough infections, the number's going to look
24 completely -- it's between apples and oranges, because
25 prior to the vaccinations, we were defining cases

1 based on thirty-eight cycles being positive.

2 So now we're just going to artificially make
3 the vaccines look like they're performing far better
4 than they are. So this is the issue with the
5 breakthrough infections with these vaccines, and this
6 is a concern. And so that's why we have to be very
7 careful.

8 So when -- when designing these vaccines,
9 then, that's why we want ideally -- we wanted ideally
10 the sterilizing immunities. Another thing I should
11 point out as an issue with these vaccines that's come
12 up, is they're being administered parenterally,
13 meaning -- so what that term means is they're being
14 administered into the body, right? So they're
15 bypassing the surfaces of the body. It's a way to get
16 something past the physical barriers of our body.

17 So an example of another type of vaccine --
18 and this is why I bring this up. So, actually, the
19 vaccines we've been developing, based on our
20 understanding of immunology, is this is an infectious
21 pathogen, right, that enters through the respiratory
22 system.

23 So we're actually looking at -- in our
24 vaccination development, we're looking at
25 administering these vaccines through either intranasal

1 -- installation intranasally to target the lymphoid
2 tissue, what we call the "nasal-associated lymphoid
3 tissue" to activate immunoresponse, or through
4 aerosols, so it would be inhaled and it would go
5 through, then, the nasal passages and down into the
6 lungs, and that would target both the nasal-associated
7 lymphoid tissue and the lymphoid tissues that are
8 throughout the lungs.

9 And what that does, the immune system
10 typically will send effector mechanisms predominantly
11 to the areas that are being drained by the lymph nodes
12 and which -- or the immune system has been activated.
13 So in other words, if you vaccinate in the lungs, you
14 tend -- the effector cells that get induced by that
15 vaccine tend to home back to the lungs, so it will
16 potentially give you better -- give you better
17 protection in the lungs.

18 And again the idea behind this is, why this
19 is important is, if you generate a mucosal -- we call
20 it a "mucosal immune response" in the lungs, it's
21 going to be dominated by IgA, and IgA is this antibody
22 that you want, and it will be in the upper airways.
23 And then if you want maximum protection from this
24 virus, you want to stop it in the upper airways,
25 because once it gets into the lower airways, that's

1 where you're at risk of getting pneumonia and then the
2 severe COVID.

3 Now, what you have to understand is, in the
4 lower airways, the types of antibodies that dominate
5 there are what we call "IgG". All you need to know
6 about IgG-type antibodies is that they have -- they're
7 more powerful antibodies. They're equipped with more
8 effector mechanisms. And what that means is they're
9 also much more pro-inflammatory.

10 And the idea being that if you're dealing
11 with a dangerous pathogen -- and a pathogen that gets
12 in the airways is not as dangerous when it's in the
13 upper airways. But once you get down into the lower
14 airways where all the air exchange happens, that
15 becomes a very -- a potentially very dangerous
16 infection.

17 And our immune system pulls out all stops.
18 Once you hit, like, that kind of really dangerous
19 level of an infection, our immune pulls out all stops,
20 because at that point you're potentially -- your life
21 is potentially at risk. And so the -- what the immune
22 system does, is it pulls out all stops and brings all
23 of its weapons to bear. So it uses its best weapons
24 in its arsenal, which in the lower respiratory tract
25 would be the IgG antibodies.

1 But the consequence of using very potent
2 effector mechanisms is that you get a lot of
3 inflammation, and that inflammation can cause
4 bystander damage to normal tissue, right, which is not
5 ideal in sensitive tissue like the lungs. But that's
6 exactly why, for example, athletes, if they get a
7 physical injury, they're often told to ice the site.

8 The reason is, is if you have a lot of
9 physical damage, they're going to be a lot of
10 inflammation present, and that inflammation is going
11 to cause a lot of off-target damage to normal tissues,
12 right, and which you don't want. So by icing it, you
13 minimize the inflammation, you minimize the bystander
14 damage, and then after a while you stop doing that, so
15 the immune system -- the components of the immune
16 system that get called in can start the healing
17 process.

18 So it's the same thing. So what we have to
19 understand is with these vaccines -- so the ones we're
20 developing, the idea was that we're going to try and
21 maximize these IgA antibodies, to neutralize the virus
22 in the upper airways, to try and get closer to that
23 strategy of sterilizing immunity.

24 These parenteral vaccines -- so this is the
25 -- another issue that's of interest -- they're very

1 good at producing antibodies systemically, and these
2 are the IgG antibodies. If you're getting enough
3 antibodies, they will get into the respiratory tract,
4 but primarily the lower respiratory tract, right?

5 And again that's not ideal, because in the
6 lower respiratory tract, these viruses -- these
7 antibodies can be somewhat pro-inflammatory. And also
8 it means if your antibodies are primarily lower
9 airways, it means you -- your effector mechanisms
10 don't engage that virus until it gets into the lower
11 airways.

12 And so that's probably the scientific reason
13 why the current parenterally-administered COVID-19
14 vaccines are not good and are not coming anywhere
15 close to achieving sterilizing immunity, okay? So
16 that's what we've been doing in terms of our vaccine
17 that we've been developing and funded to do, is we're
18 also targeting the spike protein -- and I have serious
19 concerns about that now, as I mentioned to you.

20 Because the information -- the scientific
21 information that I showed you is clearly not of
22 advantage to me. The vaccines that I currently have
23 sitting in my lab are targeting the spike protein, and
24 I have considerable -- now that I know that this is a
25 pathogenic protein, just so you know, I have actually

1 had to sit down with one of my graduate students who's
2 taking the lead on this work, right, and to make sure
3 that -- because I don't want to -- I don't want to be
4 responsible for inoculating people with a toxin, a
5 known toxin, a known pathogenic protein.

6 But knowing the science -- this is the
7 thing, it can guide -- it can guide us. There is --
8 there is a way out. So the way forward with these
9 vaccines, to me, is we can modify -- there's a
10 potential to modify the spike protein, so it still can
11 be a target for the immune system, so that we generate
12 neutralizing antibodies, which we need if we're going
13 to achieve sterilizing immunity.

14 But I've asked him: Can he alter the spike
15 protein so it no longer activates complement, right,
16 and no longer causes -- so can we figure out what is
17 the active portion of this protein that's causing
18 signalling through the platelets, right, to cause them
19 to aggregate.

20 And if we can modify just those two regions,
21 maybe we can come up with a non-pathogenic version of
22 the spike protein, right, that could then -- that we
23 could then use as a legitimate antigen. And of course
24 what we also want to do, is we want to better simulate
25 the natural immunity, which, like I said, is broader

1 immunity and is going to be more resistant to novel
2 strains that might emerge in the future. So we also
3 want to target additional components of the virus, so
4 that a virus will have a very difficult time to change
5 sufficiently to evade immunity conferred by our
6 vaccines.

7 So, yes, I received funding, and that's the
8 backbone and rationale on our vaccine development
9 program.

10 MR. RYAN: It's 1:30, so I'm going to
11 suggest we take a thirty-minute break for lunch and
12 resume at 2:00. Is everyone okay with that?

13 THE DEPONENT: That's good with me. Thank
14 you.

15 MR. CHAND: Thank you.

16 THE REPORTER: Thank you.

17 --- OFF THE RECORD (1:30 P.M.) ---

18 --- UPON RESUMING (2:00 P.M.) ---

19 MR. RYAN: Dr. Bridle, I'll have you unmute
20 yourself before I get back to questions. Thank you.

21 BY MR. RYAN:

22 163. Q. Did you apply for the provincial
23 funding you received to work on a vaccine for COVID-
24 19?

25 A. Yes, I did.

1 164. Q. And did you write that application
2 yourself?

3 A. For that application, I -- I think I
4 drafted the bulk of it, but it wasn't written entirely
5 by myself. I have two collaborators that I -- that we
6 work closely together on this project.

7 165. Q. And did that application express your
8 view that the goal should not be to get everyone
9 vaccinated per se, as you indicate in your Reply
10 Affidavit?

11 A. Well, at that time, we were focusing on
12 the -- I can't comment exactly. I mean, I have to
13 pull up the exact application. And a lot of the
14 introductory material was not my text, but rather my
15 colleagues'. Usually, when we're writing these things
16 as a team, right, we have different components that we
17 write.

18 So as I recall, for a lot of the rationale,
19 I wasn't involved with a lot of that writing, but
20 rather focusing more on, you know, as an expert, more
21 on the technical side with the vaccine, and so on.
22 So, again, in terms of that -- so that document really
23 represents the views and opinions that we, as a team
24 of three scientists, could come to agreement on for
25 the submission.

1 Again, at that time, my personal opinion --
2 I mean, as an immunologist, I fully recognize that
3 there are two ways -- when there's an outbreak of an
4 infectious agent, the ideal goal -- and, I mean, the
5 way you stop the spread of an infectious agent, you
6 know, as we -- like we all know, is through herd --
7 acquisition of herd immunity.

8 And herd immunity is a scenario where you
9 need the majority, but not all, of the individuals
10 within a population to become immune. Once you have a
11 sufficient -- a sufficient number of people immune,
12 chances are anybody who's susceptible would be
13 physically separated from anybody who could
14 potentially transmit the disease. And that's why the
15 concept of herd immunity requires that a majority, but
16 not everybody, become immune.

17 And that immunity can be acquired in two
18 ways. I mean, that's just sort of, you know, a basic
19 -- basic immunology. One is through the natural
20 acquisition of immunity and one is through
21 vaccination. And clearly what we now know, which we
22 didn't know at the time with SARS CoronaVirus-2, we
23 didn't know how prone it would be to mutations and the
24 emergence of variants.

25 So an argument based on that that, that I

1 would add, is ideally you also want maximum breadth of
2 immunity when targeting a virus that can mutate,
3 especially when it's capable of showing -- has the
4 capability of mutating a key target antigen, right?

5 So an example is with this current SARS
6 CoronaVirus-2, there's, for example, a South African
7 variant, which proved to be a major issue for the
8 AstraZeneca vaccine. The cut-off for emergency use
9 authorization for the vaccines was that they had to
10 show at least a 50 percent, you know, ability to
11 reduce the instance of COVID-19 by 50 percent in a
12 critical phase 3 clinical trial in South Africa, where
13 the South African variant was dominant. The
14 AstraZeneca vaccine failed in that context and only
15 showed approximately 10 percent effectiveness.

16 So, yes, those are the two ways that a
17 population can potentially achieve herd immunity.

18 166. Q. In the portion of the funding
19 application that you, yourself, wrote, did you
20 indicate your view that it is imperative that we learn
21 to live with SARS CoV-2?

22 A. The -- in that application, I -- again,
23 without having that application -- the text in front
24 of me, I can't make any specific comments. I -- I
25 don't think I -- I can't recall that text being there.

1 And again in the context of my co-applicants -- yeah,
2 I -- honestly, I would need -- I would need to be able
3 to look at the text exactly.

4 I mean, I can't -- I can't -- that
5 application was written -- you have to appreciate that
6 that application was written, you know, approximately
7 one year ago. I think it was even March, 2020
8 approximately. And I've written many more grant
9 applications, manuscripts, so many things, I simply
10 can't recall the exact text that was in there.

11 But if -- if you could show me the text, I
12 mean, I'm happy to comment. But otherwise I can't
13 with accuracy recall exactly what was in that
14 application that was written over a year -- one year
15 ago.

16 167. Q. And do you still have a copy of that
17 application in your records?

18 A. Yes, I do.

19 MR. RYAN: I'll ask Counsel for an
20 undertaking that you produce it?

21 MR. CHAND: We'll take that under
22 advisement, sir.

23 --- UNDER ADVISEMENT NO. 1

24 MR. RYAN: And I'll ask for the same
25 undertaking with regard to the application for federal

1 funding, assuming that was a separate application?

2 MR. CHAND: We'll take that under
3 advisement, as well.

4 --- UNDER ADVISEMENT NO. 2

5 BY MR. RYAN:

6 168. Q. Dr. Bridle, you've referred in media
7 interviews to a study where 50 percent of pregnant
8 women who received a COVID-19 vaccine experienced
9 spontaneous abortions?

10 A. Yeah, that was not a study, that was --
11 like a published study, that was data from the VAERS,
12 which is the Vaccine Adverse Event Reporting System
13 from the UK. And so that was early information that
14 had been reported there, where at that point in time
15 when I had seen the data -- observed the data, they
16 had received reports of eight individuals who were
17 pregnant, who had received the vaccine, and, yes,
18 there were four of those eight that experienced
19 spontaneous abortions following the vaccination.

20 169. Q. And is eight a big sample size in your
21 field?

22 A. Eight is not, no.

23 170. Q. It's not a significant ---

24 A. Now, sorry, with that said, it's all in
25 context, right? But, no, eight, when you're dealing

1 with a complex issue like that in a human population,
2 no. But the fact that there were four out of eight
3 is, I guess -- so this is a very important -- this is
4 something we need to understand, I guess, is how we
5 can use data from these what we'll call "VAERS"
6 databases, right?

7 So the way these VAERS databases work is
8 they are -- in the UK and in the United States, they
9 are -- they're always going to be leaders in
10 identifying vaccine-related adverse events. Canada --
11 Canada will not -- never be, just because of how our
12 system works.

13 So even though we have mandatory reporting,
14 we actually have a bias built into the system where
15 there's screening done by, in fact, remarkably
16 different individuals, because it's done on a health-
17 unit-by-health-unit basis, where a physician can
18 submit a report of a suspected adverse event, but then
19 the Public Health Officers will then determine, on a
20 case-by-case basis, whether they felt it was related
21 to an adverse event.

22 Whereas these other adverse-event databases,
23 what they do, is they -- they're unbiased, and anybody
24 can voluntarily submit an adverse event. So that
25 could mean it could be the person who received the

1 vaccine, it could be the person who administered the
2 vaccine or somebody who was involved with the
3 administration, it could be a friend, it could be a
4 family member. And so it's an unbiased base.

5 And so what -- so why that is important, is
6 because often, especially early on when vaccines are
7 first being used, what you need in order to start
8 really looking for or potentially making a possible
9 link between a vaccine and an adverse event, is you
10 need strong correlative data.

11 And so the best way to obtain that
12 correlative data is you look at these unbiased
13 databases and see if there's an accumulation of a
14 particular problem appearing, you know, that's
15 occurring within relatively the same proximity to
16 vaccination, and so on. And that will then be a
17 potential safety signal that can -- that a person can
18 then focus on.

19 So if you look at our database in Canada,
20 for example, a lot of the adverse-event reports
21 submitted get screened and get actually -- they do not
22 receive approval to go into our adverse-event
23 reporting system. But what's -- interestingly, right,
24 once other countries had identified a potential link,
25 for example, between the AstraZeneca vaccine and blood

1 clots, right, then -- you know, remarkably, a lot more
2 of those types of reports were allowed to be submitted
3 to the Canadian adverse-event database, right, because
4 others had made that link.

5 So, I mean, if you see that -- so the
6 problem is, if you deal with it on a case-by-case
7 basis, the first time you see somebody who has a blood
8 clot, because it doesn't fit with the scientific
9 assumptions that surround that vaccine, there is no
10 reason why you would necessarily suspect it's related
11 to the vaccine, and so that's easy to screen out and
12 say 'I see no scientific reason', right. 'I see no
13 accomplished scientific data that would -- that would
14 suggest this is related to the vaccine', so it gets --
15 it gets removed.

16 But once there's a publication available of
17 scientific data showing that, yes, there is a strong
18 link, you know, from this growing number of countries,
19 and so on, then you draw potentially different
20 conclusions.

21 But because these databases like the one in
22 the UK are voluntary, what it also means is there's --
23 there tends to be a lot of under-reporting, because
24 they're only -- people are only going to report this
25 (a) if they know about the -- that the database is

1 available, and so they tend to be -- they under-report
2 adverse events. And that's well established.

3 There's been estimates from anywhere from
4 under -- the actual adverse events that get reported
5 in these systems might be as low as 1 percent, maybe
6 it's 10 percent. I can't say. Nobody can say with
7 accuracy. All we know is that there's a certain
8 degree of under-reporting. And so, therefore, these
9 databases are not good for accurate quantifications of
10 adverse events.

11 Instead, what these databases are good for
12 -- because any number you come up with is almost
13 certainly going to be an under-estimate of the true
14 number of adverse events. So what these are good for
15 is driving hypotheses, for coming up with legitimate
16 scientific questions.

17 So when one looks at -- even though it's --
18 so you're right. In the context -- when I said that a
19 number -- an N of eight is not particularly large -- a
20 particularly large sample size in the context of a
21 well-controlled scientific study where you're trying
22 to apply statistical analyses and you want accurate
23 quantification, no.

24 But remember, this -- these databases are
25 not for that purpose. They are designed to help us

1 identify potential safety issues and identify them as
2 legitimate questions that then should be followed up
3 with prior scientific testing.

4 So when one sees eight individuals that have
5 been vaccinated, and four of them had spontaneous
6 abortions, there is no -- there's no proof of a cause-
7 and-effect relationship there. That could be a
8 natural -- now, a 50 percent spontaneous abortion rate
9 is remarkably high. Well above the average that you
10 would expect. But when you're dealing with four
11 individuals, there's no way to prove cause and effect,
12 and so they can be completely unrelated to the
13 vaccine. We have no idea.

14 But when you see that, when you see that you
15 have four out of eight, even though it's a small
16 sample size, so you say: 'Yes, we don't know for sure
17 if there's a cause-and-effect relationship here, nor
18 can we tell anybody that there's going to be a 50
19 percent risk with great confidence, right, of a
20 spontaneous abortion'.

21 Instead, as scientists, what we say is:
22 'This is an eye-catching number. This is a potential
23 concern and this is worthy of scientific follow-up'.
24 And this is what's been missing largely from this
25 pandemic. Again, at the beginning of the pandemic, we

1 had no choice but to make lots of assumptions.

2 But once the scientific data starts to
3 accumulate, right, we need to follow that. But that
4 doesn't mean that we lose sight of the fact that
5 there's new questions that emerge, as well, right? As
6 these are being answered, new questions emerge,
7 especially on the safety side.

8 So the proper scientific method, right, as a
9 scientist, I cannot condone -- I just cannot condone
10 the use of vaccines until they've undergone proper
11 testing. So, again, these received emergency use
12 authorization on the basis of what we now know is
13 faulty data based on an original assumption of
14 infection fatality rate and many other things, and on
15 the basis now that we know that there were effective
16 early treatments available.

17 And so there's no reason why we can't be
18 pulling the proper scientific method with these. And
19 so just at face value, I mean, look at what happened.
20 These vaccines, the clinical trials that were run, at
21 face value, one might say -- so for the Pfizer
22 vaccine, right, the first one to be -- to receive
23 emergency use approval in Canada, they had 48,000
24 volunteers involved. At face value, that sounds like
25 a lot.

1 But then when you consider, right -- we have
2 cancelled the AstraZeneca vaccine program in Canada,
3 so originally -- I mean, there's a lot of flip-
4 flopping. So, originally, the first safety indication
5 that was reported to us, we were -- we were told that
6 probably it's only 1 in 250,000 Canadians that might
7 be at risk of a potentially serious blood clot. So 1
8 in 250,000. When the program is finally shut down, it
9 was admitted that maybe -- maybe it's as high as 1 in
10 50,000.

11 But, I mean, take your pick. So let's say
12 it's 1 in 50,000. So that was deemed to be too
13 dangerous. And this is very important. Even -- the
14 messaging. A lot of people have mixed the messaging
15 around this, right? So we were told -- even now --
16 even now, because there's people, 3.1 million
17 Canadians, who have been left in a great state of
18 fear.

19 I have been overwhelmed with calls from
20 these individuals about "What do we do now?", right?
21 And that's because they received one dose of the
22 AstraZeneca vaccine, and now they're wondering, you
23 know -- and the messaging that Public Health has put
24 out to them, right -- and we're talking about hundreds
25 of thousands in Ontario, they're sitting with one

1 dose.

2 And the Public Health messaging now is that
3 `This vaccine is too dangerous to be used in Canada,
4 that's why we're phasing it out'. So now these people
5 are also being told -- and this is legitimate, right,
6 it sticks to the approved protocol, is that you don't
7 mix-and-match the vaccines from different
8 manufacturers.

9 So they're left with: Do I remain
10 unprotected, not properly protected by getting my
11 second dose, or do I play a little bit of Russian
12 roulette and hope that I'm not one of these 1 in
13 50,000. So, for example, if you have 250,000
14 Ontarians that are -- that have received one vaccine
15 and the risk of death associated with that vaccine is
16 now being reported in Canada at 1 in 50,000, that
17 would just tell us by simple math that five people, if
18 they were all to receive their second dose, might die
19 from that vaccine. And none of those individuals want
20 to be that person.

21 So this is the messaging. So this is why
22 the safety is so important. So what we have to
23 remember, then -- so let's say it's 1 in 50,000 -- oh,
24 and the thing before I get back to the 1 in 50,000, so
25 we'll come back to that. But the issue here is that

1 this -- even with that 1 in 50,000, the Public Health
2 messaging is that that's a very -- an incredibly rare
3 event.

4 But as I pointed out to you, the way we
5 always evaluate medicine -- always, always, always --
6 is you look at the risk associated with the disease
7 and the risk associated with the treatment. And so
8 what we've done in Ontario is we've said: `Okay, the
9 risk associated with the AstraZeneca vaccine outweigh
10 the risks associated with COVID-19, so we're going to
11 shut down that program, because the risks might be as
12 high as 1 in 50,000', right?

13 But that's also in the context of stating
14 that that is an extremely low risk. We have to
15 remember that language, right, because if you're
16 telling people that your -- that the risk associated
17 with AstraZeneca is an extremely low risk and,
18 therefore -- yet too dangerous relative to the dangers
19 associated with COVID-19, then what you're really
20 telling people is that the dangers associated with
21 COVID-19 are even less than extremely low and are
22 extremely rare, right?

23 So that is a direct message to Ontarians, an
24 admission that this COVID-19 is not a major issue for
25 them. In fact, the risks associated with COVID-19 in

1 Canada clearly are less than the risks associated with
2 this very rare adverse -- potentially serious adverse
3 event with the AstraZeneca vaccine. So that's an
4 important point.

5 But getting back to the 1 in 50,000, the
6 reason why it's important is then when you look at
7 enrolling 40,000 people, if you have an adverse event
8 that is too dangerous for 1 in 50,000, then the
9 question: What are the chances you're capturing that
10 in a population of 48,000? When you're testing less
11 than 50,000 people -- I mean, even if you tested
12 50,000 people, what are the chances that you have that
13 one person that's going to show that serious adverse
14 event?

15 So that's why when it comes to testing these
16 vaccines, the onus is on us to properly vet this. So
17 when we understand that there's good treatments
18 available and we didn't have to provide the emergency
19 use authorization, there's no excuse for skipping on
20 the safety side of these vaccines. I'm very adamant
21 about that as a vaccine developer, myself.

22 My career revolved around vaccines, I preach
23 the value of vaccines that have been properly tested
24 and vetted, and we are at risk right now of causing a
25 lot of people to lose faith in vaccines. And if they

1 start losing faith in other vaccines that are
2 controlling what are otherwise -- that are worth --
3 that are controlling very well serious infectious
4 diseases, we could be -- we could cause a lot of
5 damage if we don't treat these vaccines properly.

6 People have to have faith in the system that
7 we use to develop vaccines, and safety has to be
8 paramount. I've already shown you the biology of what
9 we now know -- to our great dismay, we now realize
10 that not only are these vaccines, but they're actually
11 inoculants of a toxin.

12 And so when we understand that, when it
13 comes to the safety side, 48,000 people is not enough.
14 And we saw this with the rollout. The very first day
15 of the rollout, we saw the first major, serious,
16 potentially life-threatening consequence of
17 vaccination emerge. The very first day. And it was
18 not captured in the clinical trial work.

19 And that was the anaphylactic reaction.
20 This happened in many countries upon the first day of
21 rollout. And these -- and that's why, and people
22 don't realize, the AstraZeneca vaccine could be
23 administered in pharmacies, but not the Pfizer/Moderna
24 vaccines.

25 They have to be administered in clinics

1 where there are professionals present who can revive
2 somebody from the verge of death, should they
3 experience an anaphylactic reaction. And that's
4 because those vaccines, which has now been discovered,
5 right, and people, it's suspected, that have some kind
6 of pre-existing hypersensitivity -- maybe it's to the
7 polyethylene glycol that's present as one of the
8 ingredients in the vaccine.

9 But if they have a pre-existing sensitivity,
10 they may respond with this anaphylactic. It's like a
11 very acute and serious allergic reaction that can be
12 life-threatening. And now we've seen these other ones
13 that have emerged later on, right? Like the blood
14 clotting.

15 And I can tell you from looking at these
16 various databases, as much as there is blood clotting,
17 there's also bleeding disorders. It will just be a
18 matter of time before we'll have to publicly
19 acknowledge that there's also bleeding disorders and
20 heart disorders. Because I already explained the
21 biology and why this is to be expected, when we know
22 that this protein is getting into circulation.

23 And then I even pointed out that there are
24 longer-term safety issues. And we could determine
25 whether there is a high or low risk of those longer-

1 term things. Again, if we would slow down, pause the
2 vaccine rollout, and conduct the proper studies,
3 right? So, again, with a lot of these longer-term
4 things, we have no proof, we have no evidence whether
5 these long-term concerns are legitimate or not.

6 But they are legitimate scientific questions
7 that are dealing with long-term health. I told you a
8 few -- how if we have the spike protein circulation
9 and accumulating in the ovaries, for example, it leads
10 to the legitimate scientific question of whether that
11 could lead to infertility. It wouldn't be seen 'til
12 well down -- down the road, many years later.

13 And so that pregnancy study, that is what
14 that information tells us. Yes, we can't use it to
15 accurately quantify the risk of pregnant females
16 having spontaneous abortions. But what it does tell
17 us is that we should address that question. That is
18 not an acceptable trade-off for vaccinating an
19 individual. So we need to address that and, you know,
20 we have to recognize it, right?

21 Remarkably, our College of Gynecologists and
22 Paediatricians have formally advocated for vaccinating
23 those individuals. The companies themselves, Pfizer
24 and Moderna and Health Canada, have told us they have
25 not tested this in these demographics, right? They

1 have not tested these vaccines in anybody under 16,
2 they have not tested these vaccines adequately in -- I
3 should -- Pfizer now has run a very small-scale
4 clinical trial in young teenagers, so under 16,
5 between 12 and 16.

6 But it's very underpowered. We're talking
7 1,800 vaccinated children only. And again I put that
8 in the context of: If 1 in 50,000 blood clots is
9 deemed too dangerous for Canadians, how are you ever
10 going to find that kind of dangerous adverse event
11 that is not acceptable to Canadians in a cohort (ph)
12 of 1,800 children?

13 So this is what it comes down to, is these
14 are only used to drive hypotheses, to develop
15 scientific questions. And then we need to answer
16 these scientific questions. We need to get a
17 definitive yes or no. Is this a real danger or not?
18 And if it's not a real danger, then we may proceed
19 with confidence.

20 But we can't keep going based on
21 assumptions, especially when we have alternatives,
22 like effective early treatment strategies, and when we
23 recognize that outside of the limited high-risk
24 demographics, this is a pathogen that has -- that has
25 been greatly exaggerated in terms of its

1 pathogenicity, in terms of its deadliness.

2 And so we have to address these issues. And
3 that is why the typical timeline for development of
4 vaccines is usually in the -- is in the ballpark of
5 years. And again, on average, about ten years, maybe
6 longer, sometimes shorter. But even -- what's
7 important is that these companies themselves have --
8 cannot condone and -- nor can Health Canada. Health
9 Canada is supposed to be our overriding agency that
10 dictates -- that's supposed to be responsible for the
11 safety of Canadians.

12 If you ask Health Canada right now: 'Should
13 we be vaccinating people with a four-month interval?',
14 they will say: 'No, the method that we approved was
15 based on a three-week interval for Pfizer and a four-
16 week interval for Moderna. Anything outside of that
17 would require conducting another clinical trial using
18 that new protocol, we'd have to see that data and see
19 if it meets our requirements to do it'.

20 If you ask them right now: 'Would you, as
21 Health Canada, or do the companies condone -- will
22 they -- will they go on record and state definitively
23 that these vaccines should be used in pregnant
24 women?', they will say: 'No, not until we have
25 conducted a proper phase 3 clinical trial in that

1 demographic'.

2 And it's not just about looking at the
3 safety of the pregnant female, it would also have to
4 have longer-term follow-up to look at the safety to
5 the fetus and the development of that infant. And so
6 that's why these trials typically take years.

7 And the promise -- the promise that was made
8 to the public, when these vaccines received emergency
9 use approval, was there would be no cutting corners on
10 the safety testing, in the sense that the companies
11 would be required to continue to conduct safety
12 assessments -- which would include in the context of
13 the public rollout, because everybody's receiving
14 these vaccines as part of, you know, a national-scale
15 experiment -- for another two years. For another two
16 years, before they would consider applications for
17 full licensing. And the FDA, there's already been
18 applications submitted to be considered for full
19 licensing.

20 So this does meet the -- that commitment.
21 And so now knowing that there is not this urgency for
22 the vaccines, also knowing that these vaccines have
23 some very well-defined mechanistic safety issues, and
24 that we haven't properly conducted the duration, right
25 -- when you keep seeing this emergence of novel safety

1 signals, and we're using these vaccines in untested
2 populations, untested demographics, using a
3 methodology in Ontario that was never approved by
4 Health Canada nor the vaccine manufacturers, we can't
5 compromise the safety.

6 We have to look at the mid-term and long-
7 term potential safety implications. So that four of
8 eight, that information, yes, I was using that
9 appropriately as a scientist to highlight that we have
10 to be very careful with pregnant females. I, as a
11 vaccinologist, cannot condone vaccinating anybody in
12 which there has not been a large -- and I'm talking
13 about larger than 50 -- more than 50,000 people.

14 Because if we've defined in Canada that if a
15 serious adverse, potentially lethal adverse, event of
16 1 in 50,000 is too high of a risk compared to SARS
17 CoronaVirus-2, then we need population sizes that
18 exceed 50,000. And because we still have emerging
19 safety issues, we have to look for much longer periods
20 of time. Periods of years.

21 So as a vaccinologist, there is no way I can
22 condone the use of experimental vaccines that I now
23 know are dangerous, I know exactly why they're
24 dangerous, in these populations. So that's where that
25 four of eight came from and that was what my comment

1 was related to.

2 So, in short, no, that -- we can't use that
3 as an accurate number to determine risk, but we can
4 use that as a way to pose a legitimate scientific
5 question that demands a proper scientific
6 investigation.

7 171. Q. Do you recall a presentation where you
8 devoted a slide in a Powerpoint presentation to this
9 "four out of eight" figure?

10 A. Yes, I do.

11 172. Q. And did you include any text on that
12 slide to provide all the important context that you
13 just told us about how to interpret that four out of 8
14 number?

15 A. I don't recall. Yeah, there's text on
16 that slide, I don't recall exactly what that text is.
17 And also keeping in mind that whatever text I have
18 there, it's only -- any time we put text down on
19 slides, right, as instructors, we're using that to
20 trigger key points. But the -- the full story that we
21 tell is based on the -- the words, right, the oral
22 presentation that we provide.

23 173. Q. Is this the slide that you were
24 referring to?

25 A. Well, you're referring to the slide. I

1 mean, is this the one that you were referring to?

2 174. Q. I asked you if you prepared a slide
3 that dealt with this figure, and you indicated you
4 did. So when you answered that you did prepare such a
5 slide, is this the one that you were referring to in
6 your answer?

7 A. Yes. Yes, this is a slide that I
8 prepared, yes.

9 175. Q. And I'm going to ask you a question
10 about the content of this slide. Does it include any
11 discussion of the statistical significance of eight
12 cases anywhere within the four corners of this slide?

13 A. The statistical analysis? No.

14 176. Q. And is statistical significance of this
15 eight-case figure discussed anywhere else in this
16 slide deck?

17 A. Again, without going back and reviewing
18 the slide deck, I can't say with certainty.

19 177. Q. Well, let's just make sure that you
20 recognize the entire deck. I'm going to take you to
21 the beginning.

22 A. Okay.

23 178. Q. Do you recognize this cover slide?

24 A. Yes, I do.

25 179. Q. And this was for a presentation you

1 gave at a Plan B conference?

2 A. Yes, it was hosted by that group,
3 that's correct.

4 MR. RYAN: I'll ask that we mark this
5 presentation as Exhibit 1.

6 --- EXHIBIT NO. 1: Slide deck authored by Dr. Byram
7 Bridle.

8 BY MR. RYAN:

9 180. Q. And you didn't prepare this slide in
10 response to a specific question from the audience at
11 that conference about this eight-case sample, did you?

12 A. Yes, I did. Prior to the presentation,
13 it was a member of the audience who was going to be
14 attending that submitted this table that's inserted
15 here, and they wanted to ask for my opinion on -- on
16 this.

17 181. Q. And your opinion is reflected in the
18 title on this slide, that it's:

19 "One of the risks of using COVID-19
20 vaccines in ways for which they were
21 not approved"?

22 A. Yes. Yes, they have not been approved.
23 They -- they -- they still have not been formally
24 approved by Health Canada for use in pregnant
25 individuals nor children, that's correct.

1 182. Q. And when did pregnant people beginning
2 receiving COVID-19 vaccines in Ontario?

3 A. Again, in terms of a specific date, I
4 don't know. In fact, we can't -- we can't have an
5 accurate indication either, because remember there's
6 the -- even when -- without it being approved, there's
7 the risk of accidental vaccination of pregnant
8 individuals, right? An individual could be vaccinated
9 and not even realize they're pregnant at that point in
10 time.

11 183. Q. You were talking about the announcement
12 about --

13 A. So it's not really possible to get ---

14 184. Q. -- people who know that they're
15 pregnant, became eligible in Ontario. Do you recall
16 that announcement?

17 A. No, I don't.

18 185. Q. Do you know if they're eligible to
19 receive it from the Ontario Government today?

20 A. It's been actively encouraged, yes.
21 It's being promoted by the -- again, the licensing
22 body for gynecologists and pediatricians.

23 186. Q. And they're encouraging people to
24 receive a vaccine that they are eligible for from the
25 Provincial Government, not to mislead or to create

1 fabrications for their eligibility?

2 A. My understanding is -- again, I go with
3 our overriding body of Health Canada, and my
4 understanding is that Health Canada's stance on this
5 is that they do not formally approve of it being used
6 in pregnant individuals until a properly-conducted
7 phase 3 clinical trial has been performed, and they're
8 comfortable in the effectiveness and safety of the
9 vaccine.

10 187. Q. You don't follow who's eligible under
11 the conditions set by the Provincial Government here
12 in Ontario, who was eligible to receive the vaccine?
13 That's not something you follow?

14 A. Oh, I follow -- I'll follow it to a
15 certain degree, but Health Canada's the overriding
16 body. They're the ones that, as a scientist ---

17 188. Q. The question is about whether you
18 follow the provincial rules, so that's what you can
19 address in your answer. Do you follow the ---

20 MR. CHAND: Well, hold on, hold on a second,
21 hold on. Please let the witness finish his answer.

22 THE DEPONENT: Yeah, so as a scientist who
23 wants to see things going into clinical trials, it
24 would be Health Canada that I would be required to
25 develop a phase 3 clinical trial design, and they

1 would be the ones who would be ultimately approving
2 it.

3 So they're the ones that I look to in terms
4 of guidance with respect to the safe approval of
5 vaccines. I would not be going through the Ontario
6 Government. It would be Health Canada that I would be
7 -- that I would need to consult with. They would be
8 the ones who ultimately would approve or disapprove of
9 the use of any, you know, novel clinical strategy that
10 I develop in my research program.

11 BY MR. RYAN:

12 189. Q. Do you know whether the people that the
13 Provincial Government gives COVID-19 vaccines to
14 matches the Health Canada approval? Do you know
15 whether those are the same groups or whether they're
16 different?

17 A. Sorry, can you repeat your questions?

18 190. Q. You've told me you only follow Health
19 Canada approvals for vaccine eligibility. Do you
20 remember that?

21 A. Yes, I -- yes.

22 191. Q. And you ---

23 A. No, no, sorry, I'm going to -- I want
24 to revise that answer. I don't just follow them.
25 They're the ones that I look to for the ultimate

1 guidance. The ultimate guidance regarding the safety
2 of these vaccines and how they should be used, how
3 they should be administered. I don't -- I don't
4 believe that they should be over -- that their
5 protocols and approvals should be overridden by
6 provincial Public Health officials.

7 192. Q. And are they being overridden? Do you
8 know?

9 A. Oh, yes, we know that definitively.
10 Yes. A great example, as I mentioned, is the four-
11 month interval. Health Canada does not approve of
12 that. So one of the things you need to understand
13 with that -- I can give you a great example. This
14 actually had its origin with an epidemiologist in
15 British Columbia who published an editorial -- you
16 know, so an opinion piece -- in the "British Medical
17 Journal", claiming that they had gone through Pfizer's
18 early, you know, partial phase 3 clinical data, and
19 remarkably had found that Pfizer had missed a
20 remarkable discovery.

21 And they did their own epidemiological
22 modelling, which has, you know, data based on a lot of
23 assumptions plugged into it. And, again, they've
24 admitted that, right. Assumptions based on historical
25 vaccination data. And they came up with this idea

1 that a single dose of the Pfizer vaccine was
2 remarkably efficacious. And that was published in the
3 "British Medical Journal".

4 What a lot of -- and that got a lot of press
5 coverage. And that was the primary reason why our
6 National Advisory Committee on Immunization made the
7 recommendation that we could safely go to a four-month
8 interval, although there was no idea at that point --
9 there were many additional questions, as an
10 immunologist, as to why you would question why you
11 would do that.

12 We didn't know anything about the duration
13 of immunity out the four months, etcetera, etcetera.
14 But the point being, that was the initial
15 justification. And so, yes, the National Advisory
16 Committee on Immunization recommended that the Health
17 Canada protocol be overridden and we extend the
18 interval to four months.

19 What a lot of people don't realize is that
20 in that same issue of the "British Medical Journal",
21 and you can look it up, side-by-side with that is a
22 rebuttal published by Pfizer saying that their trial
23 was never designed to address single-dose efficacy, it
24 was underpowered, and they could not formally approve
25 extending the interval beyond the three weeks that

1 they had tested and that was approved.

2 So, yes, this use of a four-month interval
3 in Ontario completely contradicts what has been
4 approved by Health Canada. Health Canada has approved
5 a three-week interval for the Pfizer vaccine and a
6 four-week interval for the Moderna vaccine, but it was
7 left to the provinces to decide whether or not they
8 wanted to override those recommendations. And we
9 have.

10 193. Q. Your view is that COVID-19 isn't a
11 serious issue for young Canadians?

12 A. For those that get serious COVID-19,
13 it's serious. My concern is that we have to put it
14 into a proper perspective. So, again, the number of
15 Ontarians under the age of 20 that have died from
16 COVID-19 is three.

17 We also know that often -- so often with
18 those outside -- what we would call the "classic high-
19 risk demographics", which we know are, again, the
20 frail elderly and those who are immunosuppressed,
21 because they don't have a functioning -- a proper-
22 functioning immune system to protect them from
23 infections.

24 Outside of that, the incidence is quite low.
25 And of those who develop this, develop COVID-19 --

1 severe COVID-19, there's usually also well-defined
2 predisposing factors. So as an example, the most
3 recent teenager to die in Ontario, the third one --
4 sorry, one was a non-teenager, they were under the age
5 of 10. We've had two teenagers and then one under the
6 age of 10 in Ontario.

7 Now, this was a 15-year-old female who died,
8 unfortunately. They were overweight. And adipose
9 tissue is a -- having a lot of adipose tissue or
10 obesity is a strong predisposing factor towards severe
11 COVID-19. This gets back to the biology that I was
12 mentioning, in terms of why we know the spike protein
13 is pathogenic and why the same spike protein that's
14 generated post-vaccination that gets into circulation
15 is also pathogenic.

16 What happened -- so as I mentioned, the
17 cells lining the blood vessels in our bodies express
18 fairly high concentrations of the receptor for the
19 spike protein. As I mentioned, if the spike protein
20 is in the blood and binds to these receptors, then it
21 can cause a lot of damage to the cardiovascular
22 system.

23 Now, it's interesting, there's an anatomical
24 study that was published where they actually looked
25 where -- you know, outside of the respiratory system,

1 is this receptor expressed at the highest levels, the
2 highest concentrations on cells?

3 Interestingly, two places that were
4 highlighted is that it's expressed in particularly
5 high concentrations on the -- in the blood vessels in
6 the brain. And that certainly would help explain why
7 a lot of the fatal blood clots that were occurring
8 post-vaccination and also in the cases of severe
9 COVID-19, have been associated with blood clots in the
10 brain and neurological damage.

11 But, interestingly, the other place that's
12 highly in (inaudible) for expression of this receptor
13 is fat tissue. Now, if you have a clot that forms in
14 fat tissue, that's not going to -- that's not going to
15 be a serious issue, right? We can live without fat
16 tissue. I mean, we can remove fat tissue, right? And
17 some people do, through surgery. But the issue is if
18 those blood clots break free, and lodge and block
19 blood vessels in critical tissues.

20 So that's the biology and that's why there's
21 a strong association. So for many of the individuals,
22 we also know those who are at potentially high risk.
23 And the issue with this is then -- so when you look at
24 that, so that individual, there was -- you know,
25 obesity was there, so it's not necessarily surprising

1 that they might have had -- because they had a
2 predisposing condition that can help promote a
3 propensity towards more serious disease.

4 But, again, that situation is actually quite
5 interesting and it highlights something that I have a
6 concern with just as a citizen, let alone as a
7 scientist, right? A moment of silence was held in the
8 Provincial Parliament for that individual, and I have
9 -- I mean, hey, it's a tragedy. And I -- and full
10 kudos for that.

11 But my concern is: With this pandemic,
12 right, unless we do a proper cost/benefit analysis and
13 look at the weight of the scientific data, my fear is
14 that we are starting to place a much heavier value on
15 lives lost to COVID-19 than to any other cause. Even
16 when we look to what the government did in that
17 situation with that moment of silence, one has to ask:
18 Why haven't they held moments of silence for all the
19 children that have died from cancers during this
20 pandemic?

21 And I am a cancer researcher. There's many
22 chronic, potentially fatal diseases that we are going
23 to see an increase in morbidities and mortalities due
24 to these diseases because of the relative lack of
25 attention to these other diseases, by devoting so many

1 resources to SARS CoronaVirus-2, through all of the
2 lockdown policies that we have imposed.

3 And so as a consequence, we are going to see
4 others -- others can give -- I mean, psychologists --
5 psychology's not my area of expertise, but I certainly
6 have seen reports of psychologists who are concerned
7 about mental health issues, exacerbation of mental
8 health issues during these lockdowns and suicides. So
9 one must wonder: Why aren't these others -- why
10 aren't moments of silence being held for all these
11 others?

12 So we have to be very careful, because it's
13 a tragedy that three young Ontarians have died from
14 COVID-19, but during these past sixteen months, there
15 have been many, many, many more that have died from
16 other causes. And, remarkably, I mean, we could go
17 through a shopping list, and many of these other
18 causes, remarkably, could be prevented with strict
19 lockdowns.

20 The example I gave with three Ontarians
21 dying over those sixteen months, that's not out of the
22 ballpark of the number that would die from a lightning
23 strike in a sixteen-month period, outside of a
24 lockdown. Remarkably, if we impose stay-at-home
25 orders on people, there'd be no risk of dying from

1 lightning strikes.

2 If we impose stay-at-home orders, there
3 would be no risk of people dying from motor vehicle
4 accidents, right? So my point in this is that we have
5 to remove the subjectivity, the emotion, and we have
6 to look at this objectively, like scientists would.
7 We have to look at the numbers, we have to look at the
8 mortality data.

9 The other thing, remember, that's caused a
10 lot of fear with people is this issue of cases. This
11 is a tragedy that the Ontario Government has reported
12 cases generically. I always point out to people: If
13 somebody gets the common cold, whether it be from a
14 rhinovirus or a common-cold-causing coronavirus, that
15 is a -- you know, technically, for most people, just
16 simply a nuisance. You know, they get sick for a few
17 days, then it passes, and our immune systems clear
18 that.

19 But from a technical perspective, that is a
20 case of an infectious respiratory disease, right? And
21 so what we have failed to do in Ontario when we're
22 reporting cases -- there's two issues. I'll go back
23 to the PCR. And this is in my report and I talked
24 about it earlier, so I won't go on at length about
25 this.

1 But I told you about the gold standard that
2 would suggest that our cut-off in Ontario at thirty-
3 eight cycles is far too high to have accurately
4 assessed cases. So first of all, on that basis we
5 know that we have over-estimated the number -- the
6 total number of cases and we do not know to which
7 degree, because scientists are not privy to how many
8 cycles were used to define the positive case or what
9 cycle number, right?

10 There has been a request for the CT values,
11 which is the cycle number, at which somebody tested
12 positive, so that we could see this data, you know,
13 objectively and look at it. But it's not available.
14 It's not available to public scientists.

15 Now, the other thing we failed to do, is we
16 failed to define cases properly. Again, a case can be
17 very, very different. We could have -- again, so --
18 again, I understand the science, so I always want to
19 talk very specifically as a scientist. So there have
20 been cases of COVID-19 defined in people who are
21 asymptomatic.

22 By simply going around -- because, again, of
23 this unfounded fear that asymptomatic individuals are
24 substantial sources of the virus that are going to
25 kill others from COVID-19. So there's been -- and

1 there's voluntary testing right now for people who are
2 asymptomatic. You know, teachers, students can go to
3 these -- do this voluntary testing.

4 So if they test positive, remarkably that
5 gets listed as a case of COVID-19. And I pointed out
6 that that is not correct. That is a case of somebody
7 having been identified to have had, in theory, a piece
8 of the genetic material from the virus, through this
9 PCR test.

10 And I've already pointed out that that test
11 result would be completely invalid and it would have
12 no biological relevance if that test result was
13 obtained at a cycle number at above -- somewhere
14 between twenty-two and thirty cycles.

15 And the other thing that's important with
16 that is -- so in other words, these are not cases of
17 COVID-19, because they don't have disease. Whereas
18 COVID-19 is the disease. The "D" in that is
19 "disease". It's the coronavirus disease, right, that
20 emerged in 2019. And so that's not a case of COVID-
21 19, that's a case of somebody who tested positive on a
22 test that may have been run at too many cycles.

23 The other thing I want to point out when
24 we're dealing about this and -- you know, when we're
25 talking about the numbers and how we should interpret,

1 you know, really the risk in Ontario. There are
2 situations where, as an immunologist, right, we would
3 expect that we would have asymptomatic individuals,
4 such as children, for example, but we also have
5 asymptomatic adults, who would genuinely test
6 positive.

7 I would be surprised if we didn't. We
8 should. We should have people genuinely testing
9 positive, meaning they really have pieces of the
10 genetic material from this virus in their body. And
11 this has been -- also been misinterpreted. That
12 doesn't mean -- again, the PCR test -- this is the
13 problem, this is why it's not the gold standard: It's
14 not a functional test.

15 It doesn't tell us anything about the
16 potential for that piece of genetic material, a tiny
17 piece of the virus' genome, right, whether that is
18 representative of a potentially infectious viral
19 particle. And this is why: When we respond -- and
20 children, in particular, do that. They seem to have
21 very efficient antigen immune responses. That's why
22 many of them aren't getting sick, showing signs or
23 symptoms of illness when they get infected.

24 And the first cells that respond in our
25 immune system -- we have three sets of cells, and

1 they're known as what we call "phagocytic cells".
2 Their job as part of our immune system is to gobble up
3 viruses that infect the body. The first one to
4 respond, they're called "neutrophils". They're very
5 small cells, they come in, they're very good at
6 gobbling up the virus, and they die very quickly. So
7 those ones are irrelevant into the context of the PCR
8 test.

9 However, macrophages and dendritic cells are
10 these other two phagocytic cells that gobble up the
11 virus. These are long-lived cells. These, once they
12 gobble up -- once they gobble up that virus, that
13 virus is no longer replication-competent. That virus
14 is inside an effector cell of the immune system. In
15 fact, in many cases, the viral particle will be
16 degraded or partially degraded. And so that -- but
17 these cells hang on to those virus particles for long
18 periods of time. It can be up to several weeks.

19 And there's an important reason for that.
20 Because it's those cells -- that's the ones --
21 remember I mentioned that when we inject the vaccine
22 traditionally and with these ones we're assuming it
23 stays in the shoulder, but you would expect to see
24 some in the draining lymph node?

25 These macrophages and dendritic cells are

1 the cells that are -- that take the antigen from the
2 injection site to the local draining lymph node, and
3 their job is to show pieces of the virus to B and T
4 cells.

5 These T and B cells then, if they can
6 recognize those pieces of virus, then proliferate to
7 large numbers -- that's why our lymph nodes swell --
8 and then they get distributed throughout the body to
9 protect us from infections. That's why these cells
10 hold on to the pieces of the virus.

11 So it's not uncommon for somebody who has
12 cleared the virus to actually test positive for the
13 presence of a piece of the viral genome. But what's
14 being detected is not a replication-competent viral
15 particle that puts people at risk of infection, right?
16 So we really have to understand the underlying science
17 to properly interpret this.

18 So now moving on from the asymptomatic
19 situation, then there's the rest of the spectrum. We
20 aren't defining, in addition, cases that are mild
21 versus moderate versus severe but non-lethal versus
22 those that were severe and lethal. And that would
23 have a very different look to it if we were reporting
24 those data, because what we would see over time is
25 that, you know, the majority of the infections are

1 mild. Especially when you're dealing with the younger
2 individuals.

3 And we know the majority of the people who
4 are in the category of having severe but non-lethal
5 and severe and lethal COVID-19, right, we know who the
6 majority of those people are. So that's -- those are
7 very misleading statistics. So the only thing
8 publicly -- that has really been made publicly
9 available -- and I showed this in my report, right? --
10 then, is -- so what is the -- since we aren't being --
11 since we aren't being told what proportion of these
12 cases -- so, again, as I said, there's the PCR test,
13 there is some level of over-estimation of the number
14 of cases, and then we also don't know what proportion
15 are actually very serious.

16 But what we do know is the most serious
17 outcome of COVID-19 is death. And so what we do know
18 is, when we look at the three waves that have occurred
19 in Ontario, we had a peak in the number of cases,
20 right, the daily cases that were occurring in the
21 first wave. And a lot coinciding with that was, you
22 know, a peak in the daily deaths that were occurring
23 due to COVID-19. Now, so that kind of set the
24 baseline.

25 And the second wave that occurred, we hit a

1 far higher peak, a peak that swamped, that dwarfed,
2 the first peak, the first wave, and the number of
3 cases -- daily cases of COVID-19 in Ontario. However,
4 the daily deaths peaked at a slightly lower --
5 slightly lower peak than the deaths in that first
6 wave, okay?

7 So what that tells us is that, on that
8 basis, in terms of the cases that were severe and
9 lethal, right, the proportion of those had dropped
10 dramatically in the second wave. And now if we look
11 at the most recent third wave, right, that we've just
12 come out of, again the number of daily cases reached a
13 new high, a new record high, such that -- higher than
14 the second wave and far higher than the first wave,
15 and yet the number of deaths peaked at a far lower --
16 far lower peak than even the previous peak in that
17 wave.

18 So what we're seeing is what you expect with
19 a typical infectious agent. Again, there's nothing
20 really special about SARS CoronaVirus-2. It's
21 behaving like any typical infectious disease that
22 we've ever been exposed to, right, as a society. And
23 so what we're seeing over time is the danger is
24 waning, right, that it's becoming less dangerous over
25 time.

1 And there's a couple of reasons why that may
2 be. Of course, one is that we have found more
3 effective ways to treat it. And like I said,
4 especially many physicians have been effectively using
5 early treatment strategies. So although it's not been
6 publicly -- not being publicly promoted in Ontario,
7 Ontario doctors do have the legal right to use
8 medications off-label if they have the fully-informed
9 consent of their patient, right? So there have been
10 doctors who recognize the science and are confident in
11 this, and have been able to very effectively treat
12 people.

13 And this is the other concern, right, is
14 we're also told that the seriousness comes down to the
15 capacity of our intensive care units and that our
16 intensive care units are at risk of overflowing with
17 cases, if we were to remove these current lockdown
18 strategies, right? And that's just not true. If we
19 look at the statistics on intensive care unit
20 capacity, we were at or near capacity for years before
21 the pandemic.

22 We have had an insufficient infrastructure
23 in terms of our ICU capacity for years prior to the
24 pandemic. And then the other thing to keep in mind
25 is, you know -- yes, if that were the case, if people

1 had no -- if people were at risk -- if we removed
2 these lockdowns and then a bunch of them were at risk
3 of getting very severe COVID-19 and we couldn't do
4 anything about it, yeah, we didn't -- we wouldn't want
5 to take the infrastructure that was already
6 inappropriate in Ontario and risk really overwhelming
7 it.

8 But that's the whole thing, is we don't have
9 to worry about that, because we do have, based on the
10 science, some very effective early treatment
11 strategies. Again, I'll just go through the list
12 briefly: Hydro -- and it's not limited to this, but
13 for example, hydrochloriquine, vitamin D ---

14 THE REPORTER: Sorry, Doctor, sorry, you
15 just have to slow down when you're naming medications
16 or ---

17 THE DEPONENT: Okay, sure.

18 THE REPORTER: Thank you.

19 THE DEPONENT: Yeah, so three examples are
20 hydrochloriquine, and vitamin D, and Ivermectin. And
21 they're not just limited to that, but there's other --
22 but people have been working on very, very good
23 medical cocktails, right, where they're mixing a lot
24 of effective medications in a lot of these things, and
25 they've proven to be even more effective.

1 So that's where I come from when we start
2 talking about, you know, sort of risk analysis and
3 putting it into a context within Ontario. So we have
4 to keep it in the context of the bigger picture and
5 weigh the costs -- you know, all the costs and all of
6 the benefits. And I do fear that we have started to
7 place an unrealistically high value, which doesn't
8 make sense from a moral perspective, on lives lost to
9 COVID-19 due to all other -- all other causes.

10 194. Q. You used the phrase "serious issue" in
11 relation to young Canadians. Do you remember that?

12 A. Which issue specifically did I deem
13 "serious"?

14 195. Q. You said COVID-19 is not a serious
15 issue for young Canadians. That was my last question
16 to you. Do you recall that?

17 A. Yeah, no, that was not my statement. I
18 -- what I said, as I recall, or certainly what I
19 intended to say, is it is -- it's obviously serious
20 for those who would be at risk of developing serious
21 COVID-19. But that's why I got into the risk -- the
22 risk of that, right?

23 To highlight, the most serious outcome of
24 COVID-19 is death, and we have only had three Canadian
25 -- Ontarians under the age of 20 die from COVID-19.

1 But to say that that is not a serious event for those
2 individuals, I mean, obviously, I would be wrong to
3 say that. And for those very few individuals who are
4 at risk, it is serious. But that's the whole point,
5 is even in those -- even though it's very rare in
6 young Ontarians for them to experience severe and
7 potentially lethal COVID-19, as I would point out,
8 there are effective treatment strategies.

9 So, for example, I have two children.
10 Should they get COVID-19, I'm quite confident with
11 what the science tells me, to go to a physician who
12 would be willing to treat with something like
13 Ivermectin. And, for example, we are. We are. Like,
14 as an immunologist, we are -- have been supplementing,
15 you know, my whole family with vitamin D, right? And
16 so these are very simple, easy strategies that can be
17 implemented.

18 So if a child develops serious COVID-19,
19 that is a serious issue. But it can be mitigated.
20 That risk can be mitigated with the effective early
21 treatment strategies that we have.

22 196. Q. Do you think the death of a grandparent
23 is a serious issue for a young Canadian?

24 A. Absolutely. All lives matter. All
25 lives matter. In fact, one of -- one of the things

1 that I'm actually focusing on in my own vaccine
2 research program is -- we're very good at developing
3 vaccines in general for the young. That's because all
4 of the animal models that are used to develop vaccines
5 almost exclusively use young animals that are
6 representative, actually, of teenagers, the equivalent
7 of teenage immune systems.

8 And one of the weaknesses we have in our
9 vaccines is properly developing them, and this has to
10 start at the pre-clinical level, for the elderly. And
11 one of the reasons for this is cost issue. So to do
12 work in old animals, for example, means housing for
13 very long periods of time, so that kind of
14 experimentation gets very expensive.

15 But that's one of the one things that I
16 wanted to do, is actually focus on optimizing vaccine
17 development for the elderly. Because one of the
18 issues with the elderly, and one of the reasons why
19 the elderly in particular are at risk -- this is for
20 any infectious disease. SARS CoronaVirus-2 is not
21 unique in sort of this phenotype that we're seeing
22 playing out clinically.

23 Anybody who's older tends to be at risk of
24 any infectious disease, and that's because of a
25 concept that we refer to as "immunosenescence". And

1 so that's aging of our immune system. So as we age,
2 our immunological function declines, and a consequence
3 of that is we tend to become -- we tend to be --
4 develop greater risk of acquiring infectious diseases.
5 And if we do get those diseases, there's a greater
6 risk that they might be more severe. What it also
7 means, though, as a consequence, because older immune
8 systems -- immunosenescent immune systems don't
9 function well, is it's literally a form of a type of
10 immunosuppression, as they also tend to not respond
11 well to vaccines. Their response is ---

12 THE REPORTER: Sorry. Sorry, Doctor,
13 "immuno"...? -- can you just repeat that word?
14 "Immuno"...?

15 THE DEPONENT: Yes, immunosenescence. So
16 it's ---

17 THE REPORTER: Senescence?

18 THE DEPONENT: Yeah, it's all one word: I-
19 M-M-U-N-O, "senescence" is S-E-N-E-S-C-E-N-C-E.
20 Immunosenescence.

21 THE REPORTER: Thank you. And you said
22 "phenotype"?

23 THE DEPONENT: Yes, phenotype.

24 THE REPORTER: Can you spell that for me,
25 please?

1 THE DEPONENT: Yes, P-H-E-N-O, pheno, and
2 type --

3 THE REPORTER: Right.

4 THE DEPONENT: -- T-Y-P-E.

5 THE REPORTER: Thank you.

6 THE DEPONENT: You're welcome. And so,
7 yeah, I actually love -- I mean, personally, again in
8 terms of my own personal, you know, philosophy in
9 life, I always look at other countries. There's a lot
10 of other countries that I look to with great respect,
11 right, where they give great respect to their -- to
12 their elders and older individuals, right? I really
13 look up to that where they're showing great -- a great
14 deal of respect.

15 I'm one of those individuals, as well, I try
16 and teach my children to be incredibly respectful of
17 the elderly, right? They're the ones that have
18 successfully got us to where we are now, they were the
19 leaders in our country, right, they were the
20 innovators before we were, etcetera.

21 So I'm of the -- I'm of the personal opinion
22 that every human being in Canada -- like, I don't buy
23 into this concept, for example, about VIPs, very
24 important people, and all that kind of stuff, right?
25 Literally, every single person in Canada is of equal

1 value, every life is of equal value, and that includes
2 the elderly.

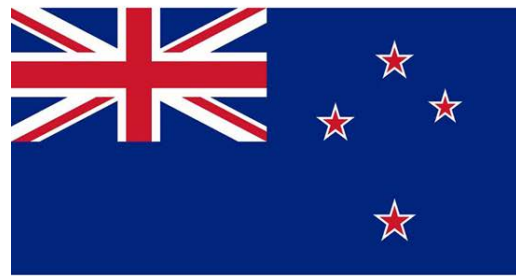
3 BY MR. RYAN:

4 197. Q. How about the scenario of a young
5 Canadian who has a dine-in meal at a restaurant, and
6 subsequently visits a grandparent who lives alone, and
7 that grandparent subsequently dies of COVID-19, would
8 that be a serious issue for a young Canadian?

9 A. I can't comment on a theoretical
10 scenario. I'm sorry, as a scientist, there -- and I
11 don't even know if we can adequately set up such a
12 scenario for me to answer a definitive yes or no,
13 because there are an incredible number of variables
14 that I would need to find there.

15 So in that situation, for example, I guess
16 -- you know, in terms of: Is it always upsetting for
17 a young person to see an older family member die? Of
18 course. Always. No matter what the cause is. There
19 would be no way in that scenario, based on the
20 information that I've been given, of knowing what the
21 cause of death was for that person. Like, if it's
22 COVID-19, fine.

23 But, I mean, in terms of the source of the
24 virus that caused that death, I have no way, based on
25 the information that I've been given, knowing where



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COVID-19 Science and Policy Symposium Webinar (New Zealand)

Answers to Outstanding Questions About COVID-19 Vaccines Will Dictate the Success or Failure of the Rollout

Dr. Byram Bridle, Associate Professor of Viral Immunology

Department of Pathobiology, University of Guelph

Ontario, Canada

Contact info: E-mail: bbridle@uoguelph.ca

Phone (from NZ): 00-1-519-824-4120 x54657 (16-hr time difference)



Disclosure²⁵² statement



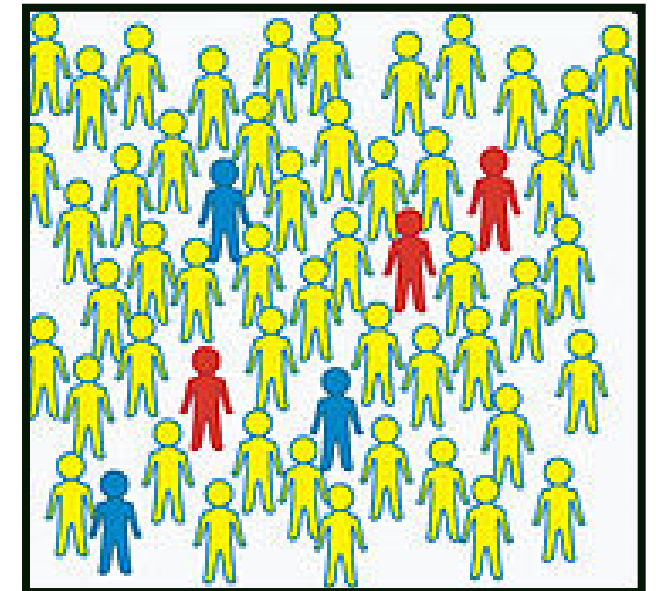
Preamble²⁵³

- Anti-vaxxer: tends to hold an extreme, negative view of all vaccines, regardless of the scientific data
- Vaccine hesitancy: unsure of commitment to taking a vaccine because of outstanding questions

COVID-19 Vaccines: ²⁵⁴How do They Work?



https://seuss.fandom.com/wiki/Thing_One_and_Thing_Two



herd immunity

COVID-19 Vaccine Development: A 'Record'-Shattering Pace²⁵⁵

- Prior to this pandemic, vaccines took ~10 years to traverse the clinical trial pipeline and receive regulatory approval
- The previous record was an 'astounding' 4 years
- COVID-19 vaccines reached the public rollout phase in <1 year (but by 'cutting corners')
- This means we are lacking information about COVID-19 vaccines that was always available for previous vaccines
- There is a lack of peer-reviewed data (much won't be released for ~2 years)
- Further, the nature of SARS-CoV-2 and perplexing decisions during the rollout are raising additional questions

APPROVED

COVID-19 vaccines have raised hopes that the pandemic is nearing an end. Hopefully, this is true. But here are some potential sticking points...



What is the long-term safety⁵⁶ of COVID-19 vaccines?

[looks good](#)

[anaphylactic reactions](#) in a very small percentage of vaccine [recipients](#) hasn't helped the optics for those with [vaccine hesitancy](#)

[died shortly after receiving the Pfizer vaccine](#)

[open letter](#): increase in non-COVID deaths in long term care homes compared to before the vaccines




Is there an example of a long-term²⁵⁷ consequence of a vaccine?

PLOS ONE

 OPEN ACCESS  PEER-REVIEWED

RESEARCH ARTICLE

Increased Incidence and Clinical Picture of Childhood Narcolepsy following the 2009 H1N1 Pandemic Vaccination Campaign in Finland

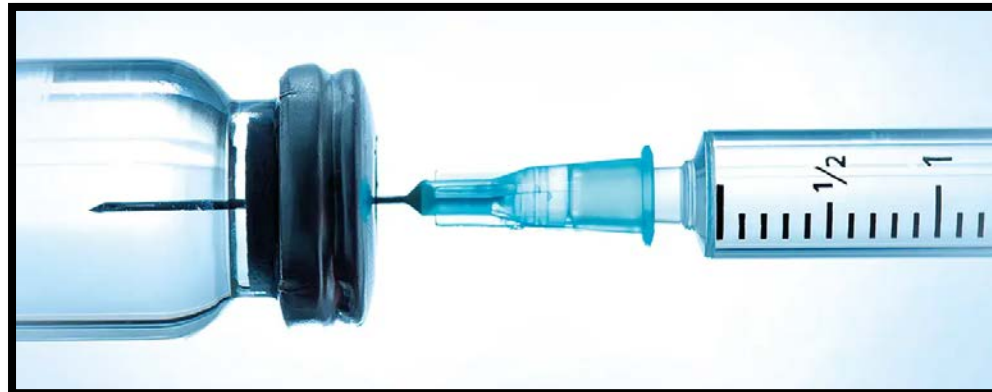
Markku Partinen , Outi Saarenpää-Heikkilä, Ismo Ilveskoski, Christer Hublin, Miika Linna, Päivi Olsén, Pekka Nokelainen, Reija Alén, Tiina Wallden, Merimaaria Espo, Harri Rusanen, Jan Olme, Heli Sätälä, [...], Turkka Kirjavainen [view all]

Published: March 28, 2012 • <https://doi.org/10.1371/journal.pone.0033723>



What is the 'duration of immunity'²⁵⁸ of COVID-19 vaccines?

herd immunity is achieved, previously vaccinated individuals will become susceptible to infection again and the rollout could fail



Are COVID-19 vaccines as effective as we have been told?

[Moderna](#) and [Pfizer](#) vaccines

[summary report](#) issued by the US-FDA

[19-29%](#) effectiveness

FDA Briefing Document

Pfizer-BioNTech COVID-19 Vaccine

Among 3410 total cases of suspected but unconfirmed COVID-19 in the overall study population, 1594 occurred in the vaccine group vs. 1816 in the placebo group. Suspected COVID-19 cases that occurred within 7 days after any vaccination were 409 in the vaccine group vs. 287 in the placebo group. It is possible that the imbalance in suspected COVID-19 cases occurring in the 7 days postvaccination represents vaccine reactogenicity with symptoms that overlap with those of COVID-19. Overall though, these data do not raise a concern that protocol-specified reporting of suspected, but unconfirmed COVID-19 cases could have masked clinically significant adverse events that would not have otherwise been detected.

Are COVID-19 vaccines as effective as we have been told?

dropped from 78% early in a clinical trial in Brazil to 50.38% in the late stages of the trial when a previously excluded group was incorporated into the analysis

50% effectiveness

What are the risks of using COVID-19 vaccines²⁶² in ways for which they were not approved?

single-dose regimens, combining vaccines from different manufacturers, or altering intervals between doses



What are the risks of using COVID-19 vaccines in ways for which they were not approved?

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Case Series Drug Analysis Print

Name: COVID-19 mRNA Pfizer- BioNTech vaccine analysis print analysis print

Report Run Date: 31-Jan-2021
Earliest Reaction Date: 19-Jan-2001

Data Lock Date: 28-Jan-2021 19:00:04
MedDRA Version: MedDRA 23.1

Reaction Name	Total	Fatal
Pregnancy conditions		
<i>Abortions spontaneous</i>		
Abortion spontaneous	4	0
<i>Maternal complications of pregnancy NEC</i>		
Morning sickness	1	0
<i>Normal pregnancy, labour and delivery</i>		
Pregnancy	3	0
Pregnancy conditions SOC TOTAL	8	0



What is the risk of emergence of SARS-CoV-2 variants that can evade vaccine-induced immunity?

mutations

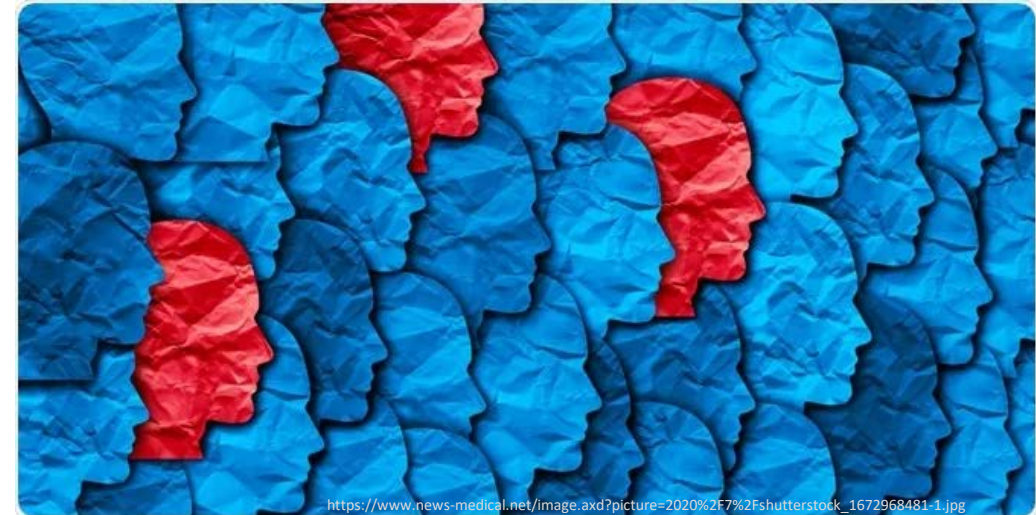
spike protein



Can 'herd immunity' still be achieved if COVID-19 vaccines don't do the job?

protect them from re-infection

cross-protect some people against SARS-CoV-2





Examination No. 21-0714

Court File No. CV-20-00652216-000

ONTARIO SUPERIOR COURT OF JUSTICE

B E T W E E N:

HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO

APPLICANT/RESPONDENT

- and -

ADAMSON BARBECUE LIMITED AND WILLIAM ADAMSON SKELLY

RESPONDENTS/APPLICANTS

VIRTUAL CROSS-EXAMINATION OF DR. MATTHEW HODGE on
an Affidavit sworn May 14, 2021 pursuant to an appointment
made on consent of the parties to be reported by Catana
Reporting Services, on May 25, 2021 commencing at the hour
of 1:30 in the afternoon.

APPEARANCES:

Michael Swinwood
Liza Swale

for the Respondents/Applicants

Padraic Ryan

for the Applicant/Respondent

Also Present:

William Adamson Skelly
Carly Benjamin
Emil Graham
Sonya Molyneaux

This Examination was taken down by sound recording by
Catana Reporting Services Ltd.

INDEX

NAME OF WITNESS: DR. MATTHEW HODGE

VIRTUAL EXAMINATION BY MR. SWINWOOD:

NUMBER OF PAGES: 104

ADVISEMENTS, OBJECTIONS & UNDERTAKINGS

U94
A95

NO EXHIBITS ENTERED

DATE TRANSCRIPT ORDERED: MAY 25, 2021

DATE TRANSCRIPT COMPLETED: June 2, 2021

1 DR. MATTHEW HODGE, AFFIRMED:

2 VIRTUAL CROSS-EXAMINATION BY MR. SWINWOOD:

3 1. Q. Good afternoon, Dr. Hodge. You're here to
4 be cross-examined on your Affidavit of May 14th, 2021, is
5 that correct?

6 A. Yes.

7 2. Q. You have a copy of your Affidavit with you?

8 A. I do.

9 3. Q. All right. I'm just going to explain to
10 everyone that I do have a bit of a challenge in that
11 there's a power outage here and so I've asked our
12 colleague, Carly Benjamin, to put things up on the
13 screen. So, I've asked them to put your Affidavit up on
14 the screen because I don't have a copy. So, I'll take
15 you directly to Paragraph 1. It says here that you
16 joined Public Health Ontario October 2020 and you were
17 the co-lead for Epidemiology and Surveillance and then I
18 see that you were there until April 9th, 2021, is that
19 correct?

20 A. Yes.

21 4. Q. So, it was a seven month period and in this
22 Paragraph 1 you've indicated you're now a consultant?

23 A. Yes, I've been retained to support Public
24 Health Ontario and the Government of Ontario in regard
25 to some of the pieces of the Covid response.

1 5. Q. Okay, thank you. You've described this as
2 the global Covid-19 pandemic. Can you help me with what
3 the definition of Covid-19 is?

4 A. Perhaps you could clarify your question
5 because Covid-19 is a virus. I assumed we shared that
6 basic understanding, so could you be more specific?

7 6. Q. Well, and it seems that you've discussed it
8 in relation -- that it has a relationship to -- excuse
9 me for the background noise, just a moment. Okay, I'm
10 sorry. What's is it's relationship to SARS-CoV-2?

11 A. I'm sorry, I didn't hear your question.

12 7. Q. What is the relationship between it and
13 SARS-CoV-2?

14 A. My understanding is they're different naming
15 systems.

16 8. Q. Well, is it possible that SARS-CoV-2 is the
17 cause of Covid-19?

18 A. As I said, my understanding is they're
19 different naming systems. They describe the same entity
20 in the same way you may be a lawyer and an attorney;
21 you're not two different entities, you're two different
22 descriptions of the same thing.

23 9. Q. Okay and you've indicated that it
24 constitutes a public health emergency. Can you tell me
25 on what basis it constitutes a public health emergency?

1 A. I think in Ontario it was the recognition
2 that if measures were not taken thousands of people
3 would potentially die, our acute care health system
4 would be overwhelmed which means in addition to being
5 unable to care for people with Covid, people with other
6 health conditions would die needlessly because they
7 couldn't access the care they needed and the global
8 aspect was because many countries were facing a similar
9 situation and have implemented similar measures.

10 10. Q. And so the idea of public health emergency
11 is on that paradigm that you've just described?

12 A. In the case of Covid-19, yes.

13 11. Q. Okay and public health and preventative
14 medicine how long have you been practicing in that area?

15 A. I was qualified in the year 2000, so I guess
16 that makes it 21 years and that included four years of
17 post-graduate training. So, 25 years I guess since I
18 started.

19 12. Q. All right and you've indicated you're
20 responsible for strategic input and work on data
21 management analysis and reporting. Does that reporting,
22 does that include surveillance?

23 A. At the strategic level it's more a matter of
24 how do we report, what do we report, how do we -- we in
25 this case being Public Health Ontario, identify user

1 needs and meet those with the reporting that's going on.

2 13. Q. Let's go to Paragraph 2 now. Sorry, you
3 just have to give me a minute. So, in Paragraph 2
4 you're describing basically setting out your history and
5 I note that you indicated you worked for the United
6 Nations and the WHO. We understand that to be the World
7 Health Organization, is that correct?

8 A. Yes.

9 14. Q. And that was from 1999 to 2001?

10 A. Yes.

11 15. Q. Was that in Geneva?

12 A. Yes, it was.

13 16. Q. What was your role when you were there?

14 A. I was a Medical Officer. So, I had three
15 different contracts staffing at the WHO's country quota
16 base and Canada is way over quota. So, these were
17 essentially contract work. The first was with the
18 Tobacco Free Institute - sorry, initiative; the Tobacco
19 Free Initiative which was a global effort to address the
20 harms of tobacco and to implement a treaty which was
21 implemented called the Framework Convention on Tobacco
22 Control. The second was with a group working on poverty
23 and health in the context of the world trade
24 organization and its various agreements. That was the
25 main focus of that work and the third was a six month

1 period with the Division of Child and Adolescent Health
2 working primarily on preparations for the special
3 session on children at the U.N. general assembly which
4 was to have been held in September 2011 -- sorry, 2001.

5 17. Q. Okay and then UNICEF, what was your role
6 there? 2001 to 2012.

7 A. I was the Senior Health Advisor for HIV
8 AIDS.

9 18. Q. Where was that?

10 A. In New York City.

11 19. Q. HIV AIDS, did you have any work that you did
12 with Dr. Fauci?

13 A. Well, Dr. Fauci's a U.S. Government employee
14 so ---

15 20. Q. No, I understand that.

16 A. The United Nations is a global
17 intergovernmental organization.

18 21. Q. No, I understand that, but he was
19 instrumental in working in HIV AIDS.

20 A. So, Dr. Fauci's work at that time, as you
21 may be aware, was primarily laboratory based and policy
22 based and the work at UNICEF was primarily around
23 addressing the burden of HIV infection in countries with
24 no access to treatment.

25 22. Q. Okay and what is UNFPA?

1 A. United Nations Population Fund.

2 23. Q. And that was for two years?

3 A. Yes.

4 24. Q. Where was that?

5 A. In New York City.

6 25. Q. Okay and then Cancer Care Ontario for one
7 year?

8 A. 15 months.

9 26. Q. 15 months and where was that, in Toronto?

10 A. Yes.

11 27. Q. Okay and Ontario Ministry of Long Term Care,
12 you had two sessions there, one for one year and another
13 one year, is that correct?

14 A. Yes, the actual months are slightly less so
15 the 2003 period was approximately 7 months and the
16 2015/16 period was approximately 15 months.

17 28. Q. Thank you and you received a Harvard
18 Master's in Health Care Management in 2011?

19 A. Yes.

20 29. Q. Okay and then Paragraph 3 you've indicated
21 that March 17th, 2020 you had six months with the Peel
22 Public Health Response, correct?

23 A. Yes.

24 30. Q. That was guiding the implementation of
25 provincial case and contact management system?

1 A. That was one of the pieces of work, yes.

2 31. Q. Yeah. Paragraph 4 is your CV and then
3 Paragraph 5 it's Exhibit B. Paragraph 6 is the
4 questions that you were asked, correct?

5 A. Yes.

6 32. Q. I'd like to take you to Paragraph 7 now.

7 A. Mm'hmm.

8 33. Q. Here you state that your opinions are
9 detailed -- I'm sorry, I'm going to have to lift this to
10 see it. Yeah, your,

11 "Opinions are informed by the realities of
12 public health practice including the role of
13 public health professionals as providers or
14 advice to governments"

15 and I'll just stop there. In relation to the opinions
16 that you are expressing do you have access to
17 documentation from the World Health Organization?

18 A. I think you'll note that one of the data
19 sources is Exhibit G is the WHO Coronavirus Dashboard
20 which is publically available.

21 34. Q. My question is do you have access to all of
22 their documentation?

23 A. Well, anything that's publically available
24 I, like any citizen of the world, may access that. I'm
25 sorry, I'm not catching your question.

1 35. Q. Do you avail yourself of it?

2 A. I see. When it's relevant to my practice,
3 yes, I keep a sort of watching eye on what they're
4 doing. I mean I think that for our discussion today
5 their particular role as an intergovernmental
6 organization means they can provide us with the most
7 accurate data available on the number of cases globally
8 across all the countries that are member states of the
9 WHO.

10 36. Q. Are you familiar with their international
11 health regulations?

12 A. Yes.

13 37. Q. Are you familiar with their guidance in
14 relation to pandemics?

15 A. In the context of the IHR or in general
16 there's actually two distinct bodies of work there.

17 38. Q. Yes, we'll come to that. I note that you
18 make the statement "and need to make decisions with
19 imperfect information." What do you mean by that?

20 A. Well, public health officials, medical
21 officers of health, provincial public health officials,
22 federal officials as with many aspects of the practice
23 of medicine we have an incomplete set of information and
24 we have to make a choice among balancing risks,
25 benefits, recognizing that to wait for complete

1 information may cause more harm than to make a decision
2 with incomplete information.

3 39. Q. You could say that at the beginning of this
4 issue called Covid-19 that would be the place of
5 imperfect information. Is that a fair statement?

6 A. I think the global response is a clear
7 demonstration of that, yes.

8 40. Q. And that as matters progress, information
9 and data is accumulated?

10 A. It certainly is.

11 41. Q. Yes. Now, you discuss something here called
12 the burden model. Can you tell me where does that
13 expression "burden model" come from?

14 A. I think I would describe it as sort of a
15 framework or a set of principles that guide public
16 health practice. So, courts and law have similar sets
17 of principles I would suppose. So, for example if we
18 look at Ebola back in the mid-teens Ebola, if it came to
19 Canada, could be potentially very dangerous, but the
20 probability of it arriving, the exposure to Canadians
21 was very low. So, we didn't put in place the same
22 stringent public health measures that were put in place
23 for Covid-19. So, because those two infectious diseases
24 behave differently, the public health practitioner as a
25 physician would be expected to acknowledge that in

1 determining what is the best set of measures to balance
2 the harms and the risks of the measures themselves to
3 the population, provide that advice to typically to
4 governments in the Canadian model and then support the
5 implementation decisions that follow.

6 42. Q. What I'd really like to know is does the
7 expression "burden model" have a scientific provenance?

8 A. I think that there are elements of
9 scientifically derived information that fit into this
10 framework. I think it would be more described as a
11 practice framework.

12 43. Q. I guess what I'd really like to know is, is
13 this a terminology that you made up yourself or that you
14 used or can you point to where it comes from in terms of
15 the scientific basis?

16 A. Well, I think -- maybe I can clarify what
17 you mean by scientific. So, science provides
18 information or knowledge which practitioners then have
19 to incorporate to make practice decisions. Science
20 doesn't leap out of a bush and say here's the answer in
21 most cases particularly with respect to public health
22 practice in a time of imperfect information. So, you
23 could, for example, reference the global burden of
24 disease project which was a massive WHO undertaking
25 around the millennium where this idea moves from being

1 sort of an academic construct into more practice and
2 policy framework.

3 44. Q. In the statements that you've made in
4 Paragraph 7 this is a statement that you have put
5 together I take it yourself and there is no -- you don't
6 have any source for the statements that you make in
7 Paragraph 7, do you?

8 A. Well, I imagine you've read the rest of the
9 Affidavit which actually builds out the initial argument
10 that's made here. I believe the document does include
11 evidence on the increasing number of cases, the rising
12 pressures on hospital and ICU capacity and that is the
13 basis for the determination that the current burden
14 associated with Covid-19 is extremely high.

15 45. Q. So, in other words your Paragraph 7 relates
16 to the rest of the Affidavit where you flesh this out,
17 is that what you're saying?

18 A. Yes.

19 46. Q. Thank you. One of the things I wanted to
20 ask you and forgot to ask you at the beginning is did
21 you have the opportunity to read the Affidavits of the
22 Respondent's experts?

23 A. I did.

24 47. Q. Did you have an opportunity to read the
25 Reply Affidavits of the experts?

1 A. Sorry, I don't recall seeing those.

2 48. Q. You haven't seen those?

3 A. There was an article from Dr. Ketner or a
4 piece from Dr. Ketner which I read. I think Dr. Ketner
5 and I are in different provinces and thus we'd have a
6 different framework for making these decisions.

7 49. Q. So, are you telling me that you haven't seen
8 Dr. Berdine's? You haven't seen Dr. Bridle's?

9 A. Why don't we have a look at them now then?

10 50. Q. Okay, let's do that. Let's go have a look
11 at Dr. Berdine's. So, if you wouldn't mind, Carly,
12 putting up Dr. Berdine's. Can you just go beyond that
13 please, Carly to the actual report? There we go, okay.
14 Can you see that all right, Dr. Hodge?

15 A. Yeah, there's a section entitled General
16 Comments?

17 51. Q. Right, right. So, I'll just put to you what
18 he basically says. One point is,

19 "The evidence from across the world demonstrates
20 no benefit with respect to mortality from the
21 severity or intensity of lockdowns."

22 Do you agree with that?

23 A. I would ask what evidence your witness is
24 citing because I think a broad statement like that is
25 difficult for me to engage with.

1 52. Q. Okay. What I'll do is then I'll just go to
2 where he does make his point in relation to science.
3 The one issue that he takes with Paragraph 7 is that his
4 basic idea is that this assertion that you make about
5 high community prevalence increasing number of cases and
6 rising pressures on hospital and ICU capacity, the
7 current burden associated with Covid-19 in Ontario is
8 extremely high and what is it that you base that opinion
9 on that it is extremely high?

10 A. Return to Paragraph 11.

11 53. Q. Sure. So, you're talking about your
12 Paragraph 11 where you're talking about cases, an
13 increase of cases, et cetera?

14 A. No, I'm actually talking about
15 hospitalizations and ICUs.

16 54. Q. Yes, okay.

17 A. Ontario has the lowest rate of hospital
18 beds. If your expert actually had spoken to the
19 experience in Ontario he might've appreciated that.
20 That an emergency for Ontario when we have only 1.4 beds
21 per thousand population is fundamentally different than
22 an emergency for even the Province of Alberta which has
23 roughly twice that number of beds and certainly for the
24 State of Texas.

25 55. Q. Well, I'll come back to Paragraph 11 in a

1 moment. Let's just stick with Paragraph 7. The
2 assertion is this, that you said in Paragraph 7,

3 "Accordingly in my opinion limiting restaurants
4 to take out operations contributes to reducing
5 Covid-19 transmission and harm from Covid-19."

6 And this is what Dr. Berdine says,

7 "Although higher prevalence increases the
8 protective value of effective measures, the
9 evidence remains that during periods of high
10 prevalence, exposure in restaurants are rare."

11 And what he cites is then he gives us Table 6 from the
12 Public Health Agency of Canada. Can you see that? If
13 we could just go to -- there we go. So, do you see that
14 Table 6, Dr. Hodge?

15 A. I see Figure 1 so perhaps your assistant
16 could adjust the screen?

17 56. Q. Yes. The statement is,

18 "According to Table 6 in the Public Health
19 Agency of Canada report fewer than 2 percent of
20 Covid-19 cases and fewer than 1 out of 4000
21 Covid-19 deaths could be attributed to
22 transmission from a restaurant or pub."

23 Then we have the table which shows the percentage of
24 total cases. Do you see that?

25 A. I don't see a table, so I'm afraid I don't

1 know what you're referring to. There's only a figure on
2 the screen.

3 57. Q. You don't see the table?

4 MR. RYAN: So, what we're looking at is a bar
5 graph and the text refers to a table in the PHAC report,
6 but what's in front of us is labelled Figure 1 and it's
7 a bar graph, not a table. So, I think it's just a
8 difference to some other document which is the PHAC
9 report versus what's in front of us.

10 THE WITNESS: I think it might be more helpful
11 to look at Table 2 in the Affidavit that I prepared
12 because that's actually data from Toronto and I
13 understand that your client operates a restaurant in
14 Toronto.

15 BY MR. SWINWOOD:

16 58. Q. Well, no, I'm talking to you about a Public
17 Health -- yeah, I'm talking to you about a Public Health
18 Agency of Canada report and this table that I have in
19 front of you indicates that,

20 "Fewer than 2 percent of Covid-19 cases and
21 fewer than one 1 out of 4000 Covid-19 deaths
22 could be attributed to transmission from a
23 restaurant or a pub."

24 And then these are the figures that illustrate this
25 data.

1 A. Okay.

2 59. Q. So, do you agree with this outline?

3 A. It's not something to agree with or disagree
4 with. It's a report from a public health agency. I
5 think the practical issue for public health practice and
6 if we wish to return to Paragraph 7 is that limiting
7 restaurants to take out operations contributes to
8 reducing Covid-19 transmission and harms. So, if
9 roughly 15,000 Canadians are dead and we attribute 2
10 percent of those deaths to restaurants, that's 300
11 people who'd still be alive.

12 60. Q. Well, it's a -- I'm sorry?

13 A. So, I think that restaurants and
14 transmission -- sorry, restaurants account for only 2
15 percent of transmission is not a matter of dispute, it's
16 a matter of degree for the courts and others to
17 determine are the measures commensurate with the risk?

18 61. Q. When we deal with going over to Figure 2, if
19 you could go to Figure 2, please and this is case
20 fatality. I'm looking at case fatality percentage.
21 Well, we'll deal with percentage of total deaths right
22 here and the percentage of total deaths the graph
23 doesn't even show anything in terms of restaurants.
24 Health care, corrections and long term care take up most
25 of the percentage of total deaths. Do you agree with

1 that, sir?

2 A. In the Canadian context the fact that most
3 people died in long term care is going to make these
4 data challenging to interpret. So, again, this is not a
5 fact for dispute. I think the question is what is the
6 relevance to the matter at hand and I believe -- I would
7 say I would assert as an expert that the goal of Covid-
8 19 risk reduction has been to reduce transmission. So,
9 if you were to go to a restaurant and then go to a long
10 term care person -- sorry, visit somebody in long term
11 care, there's two ways to reduce the chances you give
12 Covid to somebody in long term care; one is to stop you
13 visiting long term care, the other is to close
14 restaurants. Let's imagine that you were infected with
15 Covid in a restaurant. So, we don't take individual
16 measures, we think of them as a bundle or a package with
17 the overall goal of reducing transmission so that we
18 don't blow up the health system and so that needless
19 mortality is minimized or reduced.

20 62. Q. Well, in case fatality percentage on the
21 next graph, if we go to the next graph, Carly if you've
22 got -- yeah, case fatality percentage. It would
23 indicate that,

24 "Fewer than 1 out of 4000 Covid-19 deaths can be
25 attributed to exposure in a restaurant and the

1 explanation for the difference between Figures 1
2 and 2 are related to the much different
3 mortality by age. It's not so much the venue
4 that is responsible, rather it is the age
5 distribution of the people in a venue.

6 Do you agree with that?

7 A. I'm sorry, I don't understand what you're
8 asking me to agree to. People in long term care are
9 generally older on average than people who attend
10 restaurants, but those who die as a result of an
11 infection in a restaurant are no more or less valued
12 than those who die as a result of an infection in long
13 term care. So, if you're suggesting that elderly people
14 are expendable, I would respectfully disagree.

15 63. Q. Well, I wouldn't be suggesting that, sir.
16 That would be preposterous.

17 A. It might not be in your self-interest, but
18 I'm not sure about that.

19 64. Q. Well, I wouldn't be suggesting that, that
20 elderly people are expendable. That's ---

21 A. Because many of the people perhaps including
22 your expert who focused on case fatality rate have made
23 this point about the age distribution and so ---

24 65. Q. Yes.

25 A. --- I can't speak to whether your expert is

1 of the view that the elderly are expendable or not, but
2 the case fatality rate is not the framework that -- is
3 not the only piece of a framework for thinking about
4 what are a reasonable set of public health measures?

5 66. Q. No, but it would tend to indicate to you,
6 would it not, that there is a segment of the population
7 that is much more at risk than other segments of the
8 population? Wouldn't that be a fair comment, sir?

9 A. By segment are you defining that in terms of
10 exposure, venues or age?

11 67. Q. Let's just deal with age. If we can deal
12 with age first and then we can also deal with venue
13 because we have the graphs for both. What I'm saying to
14 you is that these graphs for instance show a very
15 vulnerable segment of the population, would you not
16 agree?

17 A. Well, I think that what these graphs show is
18 that we've gathered together people who have elevated
19 risk because of age and elevated risk because of
20 underlying health conditions and they live in what's
21 called long term care or they live or work in long term
22 care. If we were to gather a similar group of people
23 and put them in a restaurant I would propose to you the
24 case fatality rate would be quite different for
25 restaurants, it would be much higher.

1 68. Q. What was the variant that you introduced to
2 that?

3 A. I said if we take a group of people of the
4 age of long term care residents with the health
5 conditions of long term care residents and we have them
6 in a restaurant, I submit to you the case fatality rate
7 associated with restaurants would be much higher.

8 69. Q. The case fatality percentage on this table
9 demonstrates that it's less than 1 out of 700, fewer
10 than 2 percent could be attributed to exposure from a
11 restaurant and fewer than 1 out of 700 would die from
12 Covid-19. Do you agree with what is being said there?

13 A. I don't disagree with the arithmetic. I'm
14 questioning the validity of this presentation to the
15 sorts of decisions that we were asked to advise on as
16 public health people.

17 70. Q. I'd like to take you to Paragraph 10 of your
18 Affidavit and we were talking about variants of concern.
19 Now, you make the statement that variants of concern are
20 more transmissible and cause more severe illness and can
21 you expand on that, please and give us the reason for
22 that?

23 A. I think the reasons are still an area of
24 evolving knowledge. What's clear from biology is that
25 something called a variant of concern we identify it

1 because it produces a different pattern of illness in
2 the human population and then we go and study the virus
3 sequences and say "a-ha this has this change or that
4 change at this particular amino acid or receptor site."
5 So, the experience was seen in the U.K. initially that
6 all of a sudden instead of one person infecting slightly
7 more than one person, one person was infecting another
8 almost two people. So, the so called reproductive rate
9 was going up. That variant is referred to as the B117.
10 It appeared in Canada and over time as PHO and others
11 have documented, these variant strains have become a
12 larger and larger proportion of all the strains of Covid
13 that are circulating in Canada.

14 71. Q. Now, you're aware of -- or are you aware of
15 the situation in Florida and Texas as it relates to
16 lockdowns?

17 A. I have read news reports, yes.

18 72. Q. It would appear that variants of concern
19 were an increasing percentage of new cases in Florida
20 and Texas, however they have showed increased
21 hospitalizations and then deaths over the time the
22 prevalence of the OC has increased and this is a
23 statement made by Dr. Berdine. Do you agree with that?

24 A. I would need to see the data to treat it
25 fairly.

1 73. Q. Well, we're going to come to that in a
2 moment. Dr. Berdine makes comment on your Paragraph 11.
3 You say in Paragraph 11,
4 "The number of cases and hospitalizations in
5 Ontario have increased significantly over the
6 past few weeks."

7 His statement is that,

8 "Ontario has seen an increase in cases,
9 hospitalizations and death over the past few
10 weeks because past restrictive policies
11 prevented herd immunity from developing among
12 young and healthy people."

13 Do you agree with that?

14 A. No.

15 74. Q. Why not?

16 A. Because unless you're going to show me
17 something new, Dr. Berdine has not defined herd immunity
18 in such a way that I can fairly assess it and when we
19 looked at when PHO and others examined data on zero
20 prevalence of antibodies in the pre-vaccination era, the
21 number of Ontarians who had antibodies to Covid-19 was
22 in the single digits and so it's biologically
23 implausible that Ontario was in a position to experience
24 any scientifically valid form of herd immunity.

25 75. Q. He's making the point that locations such as

1 Texas and Florida have seen cases, hospitalizations and
2 deaths decline to low values because policies permitted
3 herd immunity from occurring. Do you agree with that?

4 A. I would need to see the data that he is
5 citing and I then would be able to have an opinion about
6 his opinion.

7 76. Q. Well, are you aware that hospitalizations
8 and deaths have decreased in Florida and Texas?

9 A. I'm actually -- to be honest with you, I
10 have not followed the data because it's not particularly
11 relevant to my practice in the Canadian context. The
12 State of Texas and the State of Florida have very
13 different healthcare systems and so as we mentioned at
14 the outset one of the goals, if not the major goal, of
15 Ontario's public health response to Covid-19 was to
16 prevent our acute care health system from being
17 overwhelmed and our acute care health system is
18 profoundly different from those in the States you cite.

19 77. Q. But from the perspective of protocols such
20 as lockdowns, social distancing, masking, et cetera,
21 would not States that are doing something different from
22 Ontario serve as a reference point in order to bring
23 about proper planning in this crisis?

24 A. Well, I would say yes and because the
25 Country of New Zealand has been very successful with a

1 series of measures that limiting the harms caused by
2 Covid and what we could learn from the New Zealand
3 experience is that it's much, much better to be an
4 island than to be adjoined to the country that you
5 mentioned, the United States of America. So, while that
6 may be true, it's not practice relevant. Canada cannot
7 become an island, we're not New Zealand, so with all due
8 respect to your expert and his expertise, what's going
9 on in Texas and Florida for many months was actually
10 seen as a cautionary tale for us in Canada because given
11 how few hospital beds we have in the country and
12 particularly in Ontario if we were to countenance this
13 march to herd immunity that some experts have proposed
14 it could be catastrophic in terms of the effect on the
15 health system.

16 78. Q. And catastrophic on what basis?

17 A. Catastrophic based on the percentage of
18 people with Covid-19 who require hospitalization and
19 information that's certainly a significant part of
20 decision making about the people at highest risk in the
21 Province of Ontario in terms of neighbourhoods,
22 characteristics of their homes or work. Those are the
23 sorts of features that really drive public health
24 decision making rather than these broad comparisons to
25 other jurisdictions.

1 79. Q. Do you give any merit to the comparison in
2 other jurisdictions that are apparently suffering the
3 same pandemic?

4 A. If they have a similar structure of their
5 society policy framework and health system and that's
6 where I think the other Canadian provinces are probably
7 the more appropriate comparators.

8 80. Q. Paragraph 15 of your Affidavit, Dr. Hodge
9 you state,

10 "Younger Canadians experienced higher rates of
11 excess mortality corresponding to high rates of
12 infection among younger people."

13 It would appear from Dr. Berdine's perspective that
14 younger people in the United States have been doing the
15 predictable consequences of lockdowns on deaths of
16 despair including suicides and drug overdoses. Do you
17 think that this factors into the statement that you've
18 made about excess mortality?

19 A. So, the point you are referring to is
20 related to Covid-19 related deaths. So, these are
21 deaths where Covid-19 was the cause of death. Many
22 jurisdictions in the United States and in Canada have
23 identified concerns about mortality from non-Covid
24 causes as a result of the Covid related measures. I
25 think the extent of that is going to vary by each place

1 and what's -- the statement here is simply that as
2 infection in so called wave two and three was more among
3 younger people, more younger people died from Covid than
4 had been the case when infection was primarily among the
5 older people.

6 81. Q. Dr. Berdine says that,

7 "Officials from the CDC are constantly warning
8 about Covid deaths, yet according to the CDC's
9 own data there was nothing unusual about this
10 past winter. There are more deaths each winter
11 due to respiratory viruses and there had been no
12 excess of deaths from respiratory causes except
13 during April of 2020. Total deaths are
14 currently below normal, yet the CDC is nonstop
15 fear mongering about stepping outside without a
16 mask."

17 Do you take issue with this concept of no excess deaths
18 from respiratory causes except during April of 2020?

19 A. I have no opinion on the CDC's reporting or
20 Dr. Berdine's opinion. I'm focusing on what Statistics
21 Canada said happened in Canada.

22 82. Q. Again, do you find that there is any
23 usefulness in making comparisons to the CDC and what the
24 CDC has to say in what's happening in Canada?

25 A. With respect to the number of deaths from

1 Covid, no. I'd focus you back on Paragraph 15 and the
2 reference there cited.

3 83. Q. Okay. Now, I'd like to take you to
4 Paragraph 18 of your Affidavit. Here you're talking
5 about asymptomatic people and you're of the view that
6 asymptomatic people can infect others. Is that correct?

7 A. So, this is actually a statement about
8 transmission risk. So, some persons are asymptomatic
9 and subsequently become pre-symptomatic because they
10 develop symptoms and we can say when we thought they
11 were asymptomatic they were in fact pre-symptomatic.
12 So, the timing here is critical to the organization of
13 the point. What's quite clear ---

14 84. Q. Well, it's ---

15 A. Go ahead.

16 85. Q. No, I'm sorry, you go ahead.

17 A. No, what's quite clear is that transmission
18 risk from a person with Covid to other people seems to
19 be highest just prior to when a so called indexed person
20 develops symptoms.

21 86. Q. Dr. Berdine says "there are no reported
22 transmissions from asymptomatic cases." Would you agree
23 with that?

24 A. It all depends on timing, sir. So, you can
25 be asymptomatic from time zero until time infinity, but

1 a substantial number of people that are called
2 asymptomatic are in fact pre-symptomatic because at some
3 future moment they will develop symptoms and then we
4 will look back and say ah, they were not asymptomatic,
5 they were pre-symptomatic.

6 87. Q. Of course which is splitting hairs, right?
7 Because an asymptomatic person is someone who does not
8 have symptoms and is therefore not ill. Is that a fair
9 statement?

10 A. It's not at all splitting hairs. It's a
11 critically important logical error that some people seem
12 to have made when they state that there is no reported
13 transmission.

14 88. Q. Dr. Berdine uses in his Reply, Footnote 5
15 can you bring that up, please Carly? Footnote 5. It
16 would be at the end of the document. You'd have to
17 click on it, it's a hyperlink I think, Carly. There.

18 MS. BENJAMIN: Did you want me to screen share
19 the document?

20 MR. SWINWOOD: The footnote, yes, please.
21 Actually what I'd like to do right now is I'd like to
22 take a five minute break because the power has come back
23 on where I am and I'd like to rejig myself onto a
24 computer. Is that okay?

25 MR. RYAN: It's fine with me.

1 (SHORT RECESS)

2 BY MR. SWINWOOD:

3 89. Q. Dr. Hodge, one thing is that -- sorry, I'm
4 having some technical difficulties here, but maybe I'll
5 overcome them. You, yourself, you rely on other reports
6 in your own Affidavit. You rely on some American
7 studies; for instance in Footnote 15 it's National
8 Academy of Sciences of the United States of America, you
9 rely on that?

10 A. That's a journal that happens to be
11 published in the United States, yes.

12 90. Q. Yes and you rely on a United Kingdom study
13 in Exhibit J?

14 A. So, Science is a journal of the American
15 Association of the Advancement of Science. These are
16 scientific journals, both those references.

17 91. Q. Right, but you'll agree with me that you're
18 going to avail yourself of any sources that you feel is
19 going to be helpful to the science that you're dealing
20 with. Is that a fair statement?

21 A. Yeah, in fact during the break I wanted to
22 try to provide a better response to your point about Dr.
23 Berdine and so I looked at May 11th which was the date
24 when we prepared the material in Table 1 in my
25 Affidavit. At that time Ontario had 8,000 deaths,

1 Ontario has approximately 14.5 million people and on
2 that date the State of Texas had 49,651 deaths in a
3 population twice as large. Six times more deaths, twice
4 as many people and I think that probably summarizes my
5 reticence about engaging in hypotheticals regarding your
6 expert witness' perspectives.

7 92. Q. Well, he's not engaging in hypotheticals,
8 he's engaging in his science that he's looking at.

9 A. Well, you told me he believed that deaths
10 had gone down, but that's perhaps because they've
11 already killed three times more people and I am of the
12 view as a public health physician that it would be
13 incompetent for me to have recommended measures that
14 tripled the death rate on a population basis.

15 93. Q. The death rate that you're talking about in
16 relation to the situation in Texas has to do with the
17 concept that there were no lockdowns?

18 A. Right. So, my point would be if I
19 understood your line of inquiry, you, I believe said,
20 that Dr. Berdine was of the view that lockdowns were not
21 effective in preventing deaths. Lockdowns and
22 restaurant closures, which is the matter at hand in this
23 proceeding, were part of a bundle of measures
24 implemented by the Government of Ontario and if we had
25 applied the death rate in Texas to the population of

1 Ontario we would have three times as many people dead.
2 We'd have 16,000 more people dead and I, as a public
3 health professional, do not feel that it would be
4 appropriate for me to have recommended measures that
5 killed 16,000 additional people.

6 94. Q. I doubt that that's the point that is being
7 made in relation to the number of deaths and the number
8 of people who are affected ---

9 A. But I think this does highlight the
10 difference between these two jurisdictions and why I
11 hope you can appreciate my relative lack of interest in
12 the State of Texas as a model for the Province of
13 Ontario.

14 95. Q. In Paragraph 25 of your Affidavit you state
15 that,

16 "From an epidemiological perspective,
17 restaurants pose a distinct transmission risk as
18 gathering spaces and work places."

19 What I would like to know is that how would you quantify
20 that statement based on science?

21 A. Well, I think maybe I can start by making
22 sure we're clear on what I'm referring to. So,
23 restaurants are workplaces and there can be transmission
24 among employees in the same way as can happen in a
25 factory or a hospital or a law office. Restaurants are

1 also gathering spaces and the act of gathering can
2 infect patrons and staff. So, when you say science, do
3 we accept that basic foundation?

4 96. Q. Well, the foundation actually that we might
5 want to look at is the low percentage of transmission as
6 evidenced in those tables that I showed you.

7 A. I would actually frame it differently. In
8 Ontario there is a legal obligation for employers to
9 provide a safe workplace and so in Table 2 we looked at
10 data from Public Health Ontario reporting on the number
11 of outbreaks in bars, nightclubs and restaurants and as
12 you can see from the three rows the rate of outbreaks
13 per 100 days varies as the restaurants are more or less
14 open. The average number of cases which public health
15 practice tells us is significantly lower than the total
16 number because we have no way of knowing all of the
17 people who may have been exposed shows a similar
18 pattern. So, there is a workplace obligation under the
19 law in Ontario to protect employees from health hazards
20 at work and that would include Covid-19 infection.

21 97. Q. You use the word "cases". What do you mean
22 by that? What do you mean when you say "cases"? What
23 does that mean?

24 A. A human who has a positive Covid-19 test.

25 98. Q. And a human who has a positive Covid-19 test

1 I've heard experts say that it was unwise to use the
2 word PCR and test in the same sentence. Do you
3 understand what's meant there?

4 A. I'm afraid that's out of my area of
5 expertise. That's not within the scope of my expertise.

6 99. Q. Well, when you say "cases" and you say test,
7 Covid test, what's the test?

8 A. The test in Ontario is generally a PCR test.

9 100. Q. So, do you know what a PCR test is?

10 A. Yes, I do.

11 101. Q. Okay. What is it?

12 A. It's a test for Covid.

13 102. Q. No, I know, but what does PCR mean?

14 A. Polymerase Chain Reaction.

15 103. Q. Do you know what the PCR test cycles are set
16 at in Ontario?

17 A. They vary because the laboratories have
18 different approaches depending on what the context is
19 for the testing. -- questions that are more
20 appropriately directed to laboratory expertise.

21 104. Q. Well, you don't know anything about the
22 cycles that are set in Ontario for PCR tests?

23 A. I didn't say that I don't know anything, I
24 said it's not my area of expertise.

25 105. Q. Well, do you know what they're set at?

1 A. I also said that it varies depending on the
2 testing context.

3 106. Q. Okay. Do you know the variants?

4 A. Variants? I don't understand. Do you mean
5 the range?

6 107. Q. Yes.

7 A. It could be as low as 20, it could be as
8 high as 40.

9 108. Q. Are there any PCR tests in Ontario that are
10 as low as 20 in cycles?

11 A. I think you'd have to direct that question
12 to the laboratory.

13 109. Q. Are you aware that there's quite a
14 controversy over PCR tests and the cycles that they're
15 set at and their ability to demonstrate something
16 positive or negative?

17 A. I'm aware of vigorous discussion among
18 people who also have identified controversies about
19 other matters of which I am not expert. So, I'm
20 declining ---

21 110. Q. You've not thought to look into it?

22 A. That's not what I said.

23 111. Q. Well, have you looked into it?

24 A. I have and I noticed a correlation between
25 those who deny the existence of Covid, deny the

1 existence of a pandemic, in some cases deny the
2 existence of patients in hospital and who take issue
3 with PCR tests and so given my limited cognitive
4 capabilities as a public health physician I try to work
5 with the settled science and the PCR is an acceptable
6 settled science test for Covid infection.

7 112. Q. Would you agree with me that there is quite
8 a bit of controversy in relation to the statement that
9 you just made that PCR tests are a valid scientific
10 measurement of the existence of Covid?

11 A. I do not agree with you there.

12 113. Q. Are you aware of scientific controversy in
13 relation to PCR testing?

14 A. You'd need to define scientific controversy
15 for me.

16 114. Q. Well, number one it has been suggested that
17 anything that is set at a cycle of between 35 and 38 is
18 going to result in many, many false positives; as high
19 as 96 percent.

20 A. As I said, it's not my area of expertise,
21 but perhaps I can help reframe our conversation by
22 inviting you to go to a hospital full of Covid patients;
23 they're definitely not false positives, they're people
24 fighting for their lives.

25 115. Q. I'm not engaged here, sir, in a discussion

1 about people who are dying and sick. I'm not suggesting
2 that. What I'm saying to you is this: that when you use
3 the word "cases" is it directly tied to the concept of
4 PCR testing?

5 A. I think you know the answer to that, yes.
6 The case definition is that one has a positive test
7 result.

8 116. Q. All right and that within this concept of
9 false positives, there's a high percentage who do not
10 have Covid whatsoever, but test positive. Do they
11 become a case?

12 A. I cannot pursue this line of questioning
13 because I don't have access to the information you are
14 citing when you say a high rate of false positives. The
15 word high has no scientific meaning, except perhaps with
16 the relation to the use of marijuana.

17 117. Q. Severe and high and those kinds of
18 terminologies have to be eliminated, is that correct?

19 A. I want to try and help you understand the
20 public health perspective. In no small measure because
21 it's been really hard to figure out a perfect test for
22 Covid-19 and because many people may become infected and
23 may have mild symptoms, one way of understanding
24 Ontario's journey over the last 15, 16 months has been
25 when the healthcare system hits a wall because there are

1 no beds for anybody and we have people who are sick who
2 need a bed, we take measures that seem to be associated
3 with a subsequent reducing of the burden of
4 hospitalizations. So, somebody who's in hospital we can
5 split hairs about their Covid-19 test, but if they're on
6 a ventilator and they have a positive Covid-19 test and
7 they don't have any other organism causing that
8 infection, I think most people would call them a Covid-
9 19 case.

10 118. Q. Well, I guess that's the interesting part
11 about the whole idea of whether we call something a
12 Covid-19 case or not. You've indicated that over the
13 course of time here that you've dealt with many, many
14 Covid patients, is that correct?

15 A. Mm'hmm.

16 119. Q. Yes? And in that you've done it as an
17 emergency room doctor?

18 A. Yes.

19 120. Q. In treating such patients do you ever take
20 samples from them to determine the existence of the
21 virus?

22 A. Samples are taken. I may not be the
23 individual who does the sampling, but the typical workup
24 for a person who's sick enough to require admission to
25 hospital would involve a Covid-19 test if they haven't

1 previously tested positive and tests for alternative
2 diagnoses.

3 121. Q. But is that just a PCR test that's conducted
4 then?

5 A. The tests for alternative diagnoses are a
6 range of tests.

7 122. Q. And what would those range of tests be like?

8 A. Blood cultures most commonly, sputum
9 cultures in some cases, pleural fluid cultures.

10 123. Q. Would those be undertaken by you when you're
11 treating a Covid-19 person?

12 A. It depends. I mean, again, I would
13 typically order a blood culture if a patient presented
14 with a fever and was sick enough to require admission to
15 hospital. The actual sample procurement is done by a
16 nurse or a laboratory technician. The culture work is
17 done by a laboratory medicine physician.

18 124. Q. I just -- I'm curious to know given that you
19 are dealing in a situation where you're advising public
20 health and you're also treating Covid patients why you
21 wouldn't be interested in this concept of the efficiency
22 of a PCR test. You don't seem to think that that's an
23 important point for you to look at because you're saying
24 it's not your field of expertise?

25 A. No, I think you were asking me specific

1 questions about cycle time in Ontario and I don't have
2 that information. The point I was attempting to make is
3 that Ontario's response to Covid has been in no small
4 part driven by a stated desire to not blow up our health
5 system so that it's available for all Ontarians, whether
6 they have a heart attack or a broken leg and we could
7 spend an infinite amount of time reviewing the vigorous
8 discussions and conspiracy theories and science about
9 PCR, but I would propose we side step that because if we
10 have a plan that's grounded in we increase the measures
11 when our hospitalizations are going up that might be a
12 way for us to at least explore some of the other perhaps
13 relevant matters in the Affidavit.

14 125. Q. I'm just curious to know because this is the
15 area that you were practicing. This is the area where
16 you were advising and it seems passing strange that in
17 an area where there is controversy you have used the
18 word conspiracy, I would use the word controversy and
19 where there's a controversy surrounding the testing it
20 would seem that this would be a very important point for
21 you to investigate, do you not think?

22 A. I think that perhaps your experience of
23 controversy is different from mine. If I work an
24 Emergency Department shift and I see 20 patients and 10
25 of them are sick with Covid and require admission to

1 hospital which was unfortunately where we were in the
2 late spring, all of those people have a positive Covid
3 PCR test. There may be some other people out there who
4 have a false positive Covid test, but I hope you can
5 appreciate the logic that if it's false positive they're
6 not sick and so it's not going to receive a lot of
7 attention. What I'm focusing on is, as an emergency
8 physician, can I do what I can to help save this
9 patient's life? And in my public health role, can we as
10 a society take measures so that the healthcare system
11 doesn't implode which would have the effect of women
12 dying during child birth because they couldn't receive a
13 safe delivery and people having heart attacks and dying
14 at the hospital steps because there's no space in the
15 Cath Lab. I think we saw that in other jurisdictions
16 and that was a sobering experience that Ontario wished
17 to avoid.

18 126. Q. Have you read Dr. Mark Trotsy's Affidavit in
19 these proceedings?

20 A. I have.

21 127. Q. He's diametrically opposed to what you just
22 said. He suggests that in his 25 years as an Emergency
23 Room physician and most particularly during this Covid
24 crisis that the hospital was empty and he rarely saw any
25 Covid patients.

1 A. He's certainly a very fortunate physician.

2 128. Q. Well, it doesn't square with what you're
3 saying though in terms of overwhelming of hospitals. He
4 was working for three hospitals in the Emergency
5 Department and he didn't see one Covid patient.

6 A. Where did he work?

7 129. Q. Well, it's in his Affidavit. We want to go
8 back and look at it, but, you know, it doesn't matter,
9 he worked for three rural hospitals. I believe there
10 was one in Ottawa.

11 A. If you wish to go there I'm available for
12 you this afternoon. I would point out that Public
13 Health Ontario, the Government of Ontario, the medical
14 officers of health in Toronto and Peel have all spoken
15 about the degree to which Covid is not an equal burden
16 for people in Ontario and I happen to work in a
17 community that was very highly affected.

18 130. Q. Well and Dr. Trotsy's not the only person
19 who has made statements regarding empty hospitals.
20 There are Canadian physicians who have made these
21 statements that the hospitals are not overwhelmed ---

22 A. Well, except for the no visitors rule, I'd
23 be happy to give them a tour of our place, but as I said
24 if you wish to go there, let's turn to that Affidavit.

25 131. Q. Well, sure, and then you would go for a tour

1 of the places that are empty, that would be -- like,
2 you'd do the same?

3 A. Well, it might be helpful for you if we
4 could have a shared view of empty. So, I believe that
5 Dr. Trotsy was referring to beds that were unoccupied in
6 his Affidavit. I would wish to give him the benefit of
7 professional courtesy that that's what he meant. Every
8 hospital has unoccupied beds because there's no one to
9 staff them.

10 132. Q. Well, what he actually specifically said in
11 one part is that in a 14 hour period there was nothing
12 to do.

13 A. Well, and that's because the public heeded
14 the direction of government. If you think back to the
15 first phase in March of 2020 the pertinent information
16 that we had; the visuals, the data were driven by the
17 Italian experience and the New York City experience and
18 there are, to me as a physician, horrific pictures of
19 people literally getting trampled to death outside
20 hospitals in New York City. So, in Ontario a series of
21 public health measures were put in place which included
22 the cancellation of non-urgent care, elective surgeries
23 and the public understood that we needed to have the
24 hospitals available in case we became New York City or
25 Italy. We were fortunate in Ontario that that didn't

1 happen and it didn't happen in large part because people
2 adhered to the measures. Subsequently in later waves of
3 Covid some communities, including Scarborough where I
4 work, was much more heavily affected. So, Dr. Trotsy
5 may be right about the places where he worked, but I
6 think unless you wish to disagree with the data on the
7 transfers of patients from Scarborough and other highly
8 affected communities that the most recent era has been
9 different.

10 133. Q. I'd like to move over to -- did you have
11 occasion to read Dr. Bridle's Response?

12 A. Yes. Could you put it up on the screen so
13 we can follow it along, please?

14 134. Q. Yes. So, if we could have Dr. Bridle's
15 Reply Affidavit? Go to Page 14, please, Carly. On Page
16 14 -- oh, I'm sorry, make it Page 11. I'm sorry, Page
17 11. When you, Dr. Hodge, are talking about the patients
18 that you dealt with, you use the terminology in
19 Paragraph 1 that "your work includes caring for dozens
20 if not hundreds of people" and that's quite a variance,
21 dozens and hundreds. Can you qualify how many people
22 you've dealt with in the last 16 months with Covid?

23 A. I don't keep those records, they belong to
24 the hospital.

25 135. Q. I'm sorry, I didn't hear that.

1 A. I don't keep patient level records, they
2 belong to the hospital.

3 136. Q. Would you have any idea yourself how many
4 Covid patients you treated?

5 A. Well, that's why the range here is
6 relatively broad. It's certainly dozens, it might be a
7 few hundred. I don't know.

8 137. Q. Well that's ---

9 A. It's not something ---

10 138. Q. Dozens and a few hundred are quite a big
11 difference. You'll agree with me on that?

12 A. Well, no, nine dozen is 108, so, dozens
13 would be perhaps 100 to 200. If you tell me it's 300 I
14 wouldn't be surprised.

15 139. Q. No, I'm asking you to tell me. Can you give
16 me a guesstimate? Are you saying 300 in 16 months?

17 A. I'm not in the guessing game, sir. I don't
18 keep individual patient records because those records
19 belong to the hospital.

20 140. Q. So, we'll just have to stick between dozens
21 to 100. Correct?

22 A. I stand by my statement in the Affidavit.

23 141. Q. When a person presents in the hospital with
24 Covid-19 how is that determined by you as the attending
25 physician?

1 A. So, it's going to depend. When you say they
2 present with Covid-19, people don't present saying I
3 have Covid-19, they generally present saying I have a
4 symptom; I have a cough, I have a fever, I'm short of
5 breath, if they're brought by ambulance because their
6 family was concerned they can't breathe.

7 142. Q. Right and then -- and so they present with
8 these symptoms, how do you determine that they have
9 Covid-19?

10 A. Well, I can check in records and see if
11 they've had a recent test. Sometimes they're well
12 enough to tell me that they had a positive test a day or
13 so ago. Sometime they'll say people at work have been
14 sick with Covid, people at home have been sick with
15 Covid. Some patients we have no information. Patients
16 without a recent positive test would likely receive one
17 if they're going to be admitted to the hospital or if
18 they request one and they're well enough to be
19 discharged.

20 143. Q. In this report by Dr. Bridle on Page 11 and
21 12 he goes into a dissertation on the PCR test and the
22 cycles. Do you see that here? Page 11 and Page 12 --
23 go over to Page 12, please, Carly and you'll see the
24 cycles that we were talking about earlier and again it
25 would be your evidence that you don't know anything

1 really about the PCR test and the cycles in Ontario?

2 A. I'm not familiar enough with the details to
3 claim expertise. Can we go back to Page 11 for a
4 second, please?

5 144. Q. Sure.

6 A. I think that I'd just like to make it clear
7 that Dr. Bridle and I are actually in agreement that in
8 the lower part of his Section 1 Page 2 he notes that
9 "confirmation by a physician on the presence of signs or
10 symptoms indicative of Covid-19." That's exactly what I
11 just described to you. That's what I'm doing when I'm
12 working as an emergency physician. So, it sounds like
13 we have agreement there.

14 145. Q. Well, yeah, but yet the only thing we don't
15 have any kind of *ad idem* on is the idea that the PCR
16 test is faulty ---

17 A. But if I understand your expert's point, he
18 says,

19 "A positive PCR test plus confirmation by a
20 physician of the presence of signs or symptoms
21 indicative of Covid-19"

22 That's what gets you into a hospital bed. There's
23 enough of those people in hospital beds that Ontario's
24 health system was in danger of being overwhelmed unless
25 you are disagreeing with your expert's assertion that

1 that would represent a legitimate SARS-CoV-2 infection.

2 146. Q. In one statement he makes at the bottom of
3 Page 13 is ---

4 A. Just to confirm, you're agreeing with me
5 then, are you?

6 147. Q. No, I'm not agreeing with you.

7 A. Oh, you just don't wish to pursue this line
8 of questioning any further?

9 148. Q. No, I'm pursuing it.

10 A. I see, but we're moving on so I just wanted
11 to return back -- you had started at Page 11 and I felt
12 it was important to make it clear that your expert and I
13 appear to be on the same page in regard to my hospital
14 based practice.

15 149. Q. Well, it appears that he's putting into
16 question deeply the concept of the PCR test and again,
17 this is something that really doesn't seem to have an
18 impact on you in relation to advising, in relation to
19 you treating. From your perspective then the PCR test
20 really has nothing to do with anything, it's just the
21 symptoms is what you're telling me so that the person --
22 -

23 A. I wanted to make sure that I had not created
24 a misunderstanding for you. So, your expert identifies
25 that the combination of a positive test result and a

1 physician assessment with symptoms consistent with the
2 human infection by that virus would be I think, without
3 putting words in your expert's mouth, being reproach and
4 I just want to make clear that that's the basis of how
5 people end up admitted to hospital. We don't admit
6 random people and test them with a test that doesn't
7 work.

8 150. Q. Well, he does say at the bottom of Page 13,
9 "It was even concluded in a study by La Scola, B
10 et al. concluded that patients testing positive
11 with CT values above 33-34 could likely be
12 discharged from hospitals."

13 A. So, I think in order to assess that in
14 regard to Ontario I would return to the point that's
15 made and has not been a matter of dispute that Ontario
16 has the fewest number of hospital beds in the OECD among
17 all of our comparators, so called developed economies.
18 So, the idea that we were admitting patients to hospital
19 who could be discharged I think is difficult to support.
20 Certainly if you or your experts wish to provide a
21 breakdown of CT values for hospitalized and non-
22 hospitalized patients I'd be happy to review it.

23 151. Q. One of the issues that he identifies is your
24 statement in Paragraph 7 that talked about the need to
25 make decisions with imperfect information and is it

1 possible that what you meant by imperfect information is
2 the beginning of the crisis and would you say that the
3 imperfect information continues to this day?

4 A. Absolutely.

5 152. Q. Would you not agree with me that there's
6 much more data from which you could make more specific
7 conclusions over the course of the 16 months?

8 A. I would wish that were so. I was talking
9 with a colleague from Toronto just last week about the
10 fact that when they call up somebody who tests positive
11 and has symptoms and asked them where did you go, who
12 might you have exposed, where might you have become
13 infected, people are unable or unwilling to provide
14 complete information. So, we're still working in an
15 environment with lots of incomplete and imperfect
16 information.

17 153. Q. There is a tremendous amount of data that's
18 been generated over the last 16 months, would you not
19 agree?

20 A. Thousands of papers, yes, but it's not clear
21 their application to the sorts of decisions that we're
22 asked to provide advice to government about.

23 154. Q. Well, is it possible to be in a situation
24 now to develop epidemiological studies and scientific
25 facts to present to the public in relation to where this

1 is at today? Not talking about overwhelming hospitals
2 now, I'm just talking about the data in relation to the
3 pandemic so called to outline to the public what the
4 situation is as it presents now.

5 A. I'm sorry, I don't follow -- was there a
6 question in there?

7 155. Q. Yeah.

8 A. Could you repeat it, please?

9 156. Q. Is there not enough data now to make
10 presentations to the public so that they can understand
11 better what the situation is today?

12 A. There are publically available data which
13 the public is certainly able to access and has been able
14 to access since the beginning of the pandemic. I think
15 if you take for example the Public Health Ontario Covid
16 Data Tool, the amount of information that's available
17 there has grown over time both in terms of breadth and
18 depth so in that sense absolutely there's more
19 information available to the public.

20 157. Q. So, in Paragraph 8 you make the statement
21 "Covid-19 is a deadly infectious disease." How would
22 you quantify that? How would you say to the public
23 here's why I say it's a deadly infectious disease?

24 A. I would say that I would turn to the
25 Statistics Canada reference and point out that if, as a

1 society, we had two full planes flying from Montreal to
2 Toronto and crashing every week with no survivors, we
3 would probably as a society wish to take steps to bring
4 an end to that and that represents the death increment
5 attributed to Covid-19.

6 158. Q. So, and that's based on modelling?

7 A. That's based on Statistics Canada reporting
8 and that is at -- let me just find you the Exhibit.
9 Exhibit N for Norman, Reference 10.

10 159. Q. Yes, but my question to you is, is that
11 based on modelling?

12 A. It's based on reporting from the provincial
13 and territorial jurisdictions and then comparing to
14 seasonal and age adjusted death rates from the previous
15 year. So, I think that it would be not so much thought
16 of as modelling as statistical analysis in the
17 comparison sense.

18 160. Q. Well, one of the things that he says and
19 I'll go to Page 15. Go to Page 15, please of Dr.
20 Bridle. He states that,

21 "Infection fatality rate or IFR is a way to
22 assess how dangerous a pathogen is. It is
23 calculated based on the number of people that
24 die from among the total number that were
25 infected. Early in the declared Covid pandemic

1 it was estimated that IFR for SARS-CoV-2 was
2 tenfold higher than for a serious outbreak of an
3 influenza virus or less than 1 percent. Indeed
4 the IFR for a bad flu season can be as high as
5 0.1 percent.”

6 Do you agree with that?

7 A. I mean this is arithmetic so I don't
8 disagree. I think that your expert and I may have
9 different perspectives because one of the beauties of
10 being an academic is you don't have to practice and in
11 practice the infection fatality rate is often not very
12 useful because we can't know the number of people who
13 are infected and I believe the subsequent paragraphs go
14 into that.

15 161. Q. Well, he does say,
16 “This is due to the phenomena such as the large
17 number of people that were infected, but did not
18 realize it because they never became ill. As a
19 result the actual IFR for SARS-CoV-2 has been
20 steadily declining.”

21 Do you agree with that?

22 A. We don't know.

23 162. Q. Well, he is quoting a study and it's
24 Footnote 24. He says,

25 “Remarkably as the data regarding total

1 infections has become more accurate the IFR for
2 SARS-Cov-2 has dropped to only 0.15 percent. It
3 is likely that this IFR will drop even further
4 as the extent of unnoticed infections is further
5 elucidated."

6 Do you agree with that?

7 A. Again, you're asking me to agree to
8 arithmetic. I'm happy to agree with arithmetic, sir.
9 If you increase the denominator and you don't increase
10 the numerator the fraction goes lower, the percentage
11 goes lower.

12 163. Q. Well, this suggests -- this is what he says,
13 "This suggests that the denominator for
14 determining the two IFR is likely substantially
15 higher than previously appreciated which would
16 mean the IFR is less than 0.15 percent."

17 A. And that is precisely why the IFR is
18 generally not used in practice settings.

19 164. Q. It goes on to say,
20 "Further this IFR includes the high risk, frail,
21 elderly and immunocompromised. For Canadians
22 who are outside of these high risk demographics
23 the IFR would be much less than 0.15 percent."

24 Do you agree with that, sir?

25 A. I feel I'm repeating myself. If we increase

1 the denominator the IFR would go down. We don't know
2 what the denominator is and that's why this is generally
3 of academic interest rather than practice or policy
4 interest.

5 165. Q. In Page 16 Dr. Bridle says,

6 "As of April 1, 2020 the population of Ontario
7 was 14,745,040 and as seen in Figure 3A there
8 have been two complete waves of reported cases
9 of Covid-19 as of writing and the third wave is
10 declining."

11 And then he states,

12 "Unfortunately Ontario has refused to document
13 the severity of cases which can potentially
14 range from asymptomatic to mild to moderate to
15 severe, but non-lethal to severe and lethal."

16 Are you aware that Ontario has not documented the
17 severity of cases?

18 A. I'm not sure what's meant by Ontario.

19 There's information available about severity, whether it
20 meets the categories that your expert wishes, I can't
21 comment. A simple proxy for severity is death,
22 hospitalized, not hospitalized.

23 166. Q. Right. He says that on Page 19,

24 "Remarkably only four Ontarians under the age of
25 20 have had their deaths attributed to Covid-19

1 over the past 16 months. Among all Ontarians
2 under the age of 60 only 490 have had their
3 deaths attributed to Covid-19 in the past 16
4 months and this includes people who had
5 predisposing medical conditions.”

6 Do you agree with those figures?

7 A. I would just have to verify them with the
8 Public Health Ontario data. There’s clearly an age
9 associated increasing risk of death.

10 167. Q. In the age group over 60?

11 A. Well, he’s got three age groups here
12 implicitly; under 20, 20 to 60 and over 60 and I think
13 your expert and I would agree that the death rate
14 increases with increasing age.

15 168. Q. Well, let’s go over to Page 17 and we have
16 Covid-19 case and mortality data for Ontario; a) is the
17 graph shows the number of daily cases of Covid-19 in
18 Ontario and he says that the definition of a case is
19 controversial due to issues related to how these are
20 defined and then b) the number of daily deaths
21 attributed to Covid-19 in Ontario and this was data
22 downloaded on May 11th, 2021 from Covid-19 Dashboard
23 which is curated by Covid-19 Canada Open Data Working
24 Group from the University of Toronto. Do you see those
25 two graphs, sir?

1 A. I do.

2 169. Q. Do you agree with what is being said there
3 in terms of the cases?

4 A. You mean do I agree with the numbers that
5 are highlighted?

6 170. Q. Correct.

7 A. I have no reason to doubt that your expert
8 is faking the data. The data source is a legitimate
9 data source. I assume he can make a graph.

10 171. Q. Okay. Let's go over to Page 18.

11 A. Can I just ask a clarifying question? Could
12 you remind me of the qualifications of the expert?

13 172. Q. Oh, well we'd have to go back to his CV.

14 A. Yeah, could we just take a moment for that
15 because I think it might be helpful to acknowledge that
16 there are different ways of looking at the same data and
17 I'm just not remembering what it is that his, I'm sure
18 highly esteemed, qualifications are.

19 173. Q. You can have a look at it when we take a
20 break.

21 A. Well, let's go back to Page 17 then because
22 I think I want to understand this a little better.

23 174. Q. Okay. So, Graph A ---

24 A. From an epidemiologic perspective the number
25 of peak deaths is an almost meaningless statistic. It's

1 certainly downloadable from the Covid Canada Open Data
2 Working Group website, but the deaths lag the
3 hospitalizations and they lag the cases and they're not
4 -- the data here do not appear to be adjusted for age.
5 So, from my perspective given the expertise that I bring
6 if someone brought this to me I would say nice work, now
7 go back and correct it.

8 175. Q. Correct it how?

9 A. Adjust it for age.

10 176. Q. Well, we'll get to that. We're going to
11 come to that I'm going to say. Let's go over to the
12 next page on 18. This is counts and rates of deaths
13 among cumulative Covid-19 cases by age. So, we see here
14 the breakdown by age. Do you see that graph, sir?

15 A. Yes.

16 177. Q. And it does what you just asked.

17 A. Well, no, perhaps I don't -- I don't mean to
18 sound insulting maybe I should provide some more
19 exposition. Age adjustment means calculating a rate
20 based on the population that's at risk for death and so
21 death counting is the top part of the appropriate
22 epidemiologic indicator, population counting is the
23 denominator that's not presented in this information.

24 178. Q. Well, what he basically says is that,

25 "SARS-CoV-2 is not demonstrated novel or

1 unprecedented population dynamics. From an
2 immunological perspective the data in Figures 1
3 and 2 are indicative of infectious agents that
4 has been running a typical course in the
5 population. Its harm is decreasing over time
6 and mortality data for Ontarians under the age
7 of 60 demands that a proper risk benefit
8 analysis be performed to place the high cost of
9 pandemic associated public health policies into
10 a proper context.”

11 Is that a fair statement to be made, sir?

12 A. I think that the risk-benefit analysis is
13 the province of the democratically elected officials.

14 179. Q. And not those who were advising the
15 government in relation to the protocols and lockdowns
16 that should be taken in order to deal with this?

17 A. Alas, I do not move in those circles so I
18 can't tell you what was or was not said. I think that
19 as a general principle we as citizens expect our
20 governments to engage in risk-benefit analysis and to
21 ideally consider tradeoffs in ways that are not about
22 any one specific source of advice or sector.

23 180. Q. Now, is it fair to say that within the
24 situation that you're describing in your hospital that
25 because of Covid-19, chronic fatal diseases; cancers,

1 heart disease, et cetera get neglected when resources
2 are diverted to Covid-19?

3 A. I would defer to the science table. The
4 Covid-19 science table has presented information on this
5 which is a more complete discussion of those issues.

6 181. Q. His statement here is at Page 18 he
7 concludes "revising or revoking lockdown policies could
8 result in a net saving of lives in Ontario." Do you
9 agree with that?

10 A. I think I would defer to Statistics Canada
11 which has shown that we've got a pretty deep hole of
12 lives that Covid caused and if we go back to our Texas
13 example, if we'd done as Texas we would have had three
14 times as many excess deaths. So, I would respectfully
15 disagree.

16 182. Q. "Statistics from the Public Health Agency of
17 Canada highlighted settings that had been
18 associated with severe Covid-19 as measured by
19 deaths. Based on these data the high and low
20 risk settings for acquisition of lethal Covid-19
21 have been obvious."

22 Do you agree with that, sir?

23 A. Can we go to those data then if you're
24 asking me to agree to them, please?

25 183. Q. Yeah, sure. That would be in Footnote 29

1 and that would be -- so that's Canada Covid-19 Weekly
2 Epidemiology Report 14th of March to the 20th of March,
3 2021 from the Public Health Agency of Canada. So,
4 that's 29. Are we able to look at that, Carly?

5 MS. BENJAMIN: There's no hyperlink so let me
6 just look for the actual document.

7 BY MR. SWINWOOD:

8 184. Q. Well, let me just say that this is a
9 conclusion that comes from that document, Dr. Hodge.

10 A. Perhaps we could go back to the language
11 you're asking me to agree with just so I could refresh
12 my memory then?

13 185. Q. Sure, I'll just bring you to this because
14 this is the point I wish to make. This is a statement
15 that Dr. Bridle makes,

16 "As expected, based on their enrichment for high
17 risk demographics i.e. the frail, elderly,
18 immunosuppressed and others with pre-existing
19 complicated medical conditions, 97 percent of
20 the total deaths attributed to Covid-19 were
21 associated with long term care and healthcare
22 facilities as of March 20th, 2021."

23 That's the conclusion from the public health agency.
24 Would you agree with that?

25 A. So, I'm not going to disagree with the 97

1 percent. I want to make the point though that Covid has
2 to get into a long term care facility and so part of the
3 thinking around the public health measures was to put in
4 place limits that would reduce the chance of Covid-19
5 being introduced into settings full of high risk people.
6 The first wave unfortunately was not very successful in
7 that regard, but I think that focusing on where the
8 deaths happened is a bit like closing the door after the
9 horse has left and been turned into glue. The focus of
10 the public health measures has been to reduce
11 transmission and that with respect to long term care is
12 the people who go in and out of the building every day
13 to care for those who live in long term care homes. So,
14 we could spend a lot more time discussing where the
15 deaths happen. The deaths are too late. Public health
16 practice is focused on reducing transmission and that
17 means moving upstream to where the transmission events
18 occur. Those transmission events for people in long
19 term care require the infection to be brought into the
20 facility typically by a staff person or a visitor.

21 186. Q. The concept here though is that the 97
22 percent figure identifies a segment of the population
23 that's most at risk and it has to do not only with age,
24 but it also has to do with venue, correct?

25 A. So, again, I'm not in the death business.

1 As a public health physician my role is to give advice
2 or provide expertise about how to prevent death and that
3 means the focus of the public health measures has been
4 reducing transmission. So, I would turn to you and say
5 how do you think those people got their Covid-19?
6 Because if we can agree that it was staff and visitors
7 coming into the facility it would seem appropriate that
8 we turn out focus to how do we prevent infection among
9 staff and visitors because that will prevent deaths
10 among the elderly and the medically compromised.

11 187. Q. Well, exactly and the concept that we're
12 driving at and I'm driving at here with you is that
13 there's a very identifiable vulnerable place of the
14 population both in age identification and venue. You're
15 suggesting for instance that the transmission is coming
16 from those going into the care to look after them, et
17 cetera, but I would suggest to you that that's just
18 speculation on your part.

19 A. I would respectfully disagree because
20 otherwise you seem to be -- are you proposing the
21 spontaneous arrival of death in these communities from
22 an infection?

23 188. Q. Well, I'm not suggesting anything ---

24 A. The infectious agent ---

25 189. Q. I'm sorry?

1 A. The infectious agent -- would you agree the
2 infectious agent has to be introduced into the facility?

3 190. Q. Well, there's no doubt that it has to be
4 introduced into the facility. The concept here is ---

5 A. If the residents of the facility don't leave
6 how would you propose it's introduced?

7 191. Q. Well, it's possible that it's one of those,
8 it's one or the other, but there's no -- we're not going
9 to quibble over that ---

10 A. Well, we're not quibbling, sir, we're
11 actually trying to establish a logical basis for an
12 exchange here. You're questioning my expertise and I'm
13 trying to ensure that I've adequately explained my
14 expertise to you because if you hold a reasonable belief
15 and I'm not disagreeing with you that this infection
16 magically appeared in these facilities and was not
17 introduced by staff or visitors, I respect your opinion
18 and disagree. If, on the other hand, you do not accept
19 that, I'm asking you do we have a shared agreement that
20 staff or visitors who circulate in the community; go to
21 restaurants, go to parties, go to churches, are the way
22 the infection is introduced into what's effectively a
23 closed community of very vulnerable people.

24 192. Q. Which would lead you to believe that
25 therefore certain definite measures would have to be

1 taken in terms of long term care homes which weren't
2 taken.

3 A. So, you should not be presuming my beliefs.
4 I was trying to establish that we had a shared
5 scientific understanding of the basis for reducing
6 transmission in the community to protect the very people
7 who were at highest risk.

8 193. Q. Well and the statement made by Dr. Bridle in
9 the next sentence is,

10 "In stark contrast locations frequented by
11 people in low risk demographics have been
12 associated with extremely few deaths attributed
13 to Covid-19. For example food drink and retail
14 settings have accounted for only three deaths."

15 A. So, I would suggest that Dr. Bridle's public
16 health practice experience is no doubt different from my
17 own. If I have Covid-19 and I'm a healthy young person,
18 I'll call myself young, I went to a restaurant with a
19 bunch of friends, somebody had Covid, they gave it to me
20 and then I visit my 87 year old father who lives in long
21 term care and he dies, his death will be attributed to
22 long term care, but the way he got that infection was
23 because I visited him after going to a restaurant with
24 my friends. So, our public health approach distinct
25 from the academic virology approach is to focus on

1 transmission because that's how we protect those who are
2 most vulnerable by reducing transmission.

3 194. Q. Well, the concept here though is that what
4 we're talking about is the difference is the long term
5 care home and a restaurant and the statistics are vastly
6 different and what we're actually talking about here is
7 the need for closing down restaurants and I take it that
8 what you're saying is from your perspective these are
9 petri dishes?

10 A. I didn't say they were petri dishes, I
11 wanted to make clear that the public health science is
12 focused on reducing transmission rather than analyses of
13 where the deaths happen because the death is the event
14 we're seeking to prevent; the death is the failure of
15 the public health measures. So, because people in long
16 term care require the services of staff to take care of
17 them for their activities of daily living, the focus of
18 protecting long term care is two parts. One is reduce
19 transmission if it gets in the building, but ideally
20 prevent transmission by preventing transmission in the
21 community so that workers don't have Covid and bring it
22 in to the building. So, it's not that it's a petri
23 dish, it's just the attribution of deaths to restaurants
24 is actually tangential to the entire thrust of the
25 public health response here.

1 195. Q. Dr. Bridle makes the point that an average
2 of two to three Canadians have died from lightning
3 strikes in each 12 month period since 2002 and contrast
4 that to the 15 months of the pandemic, three deaths due
5 to Covid-19 have been attributed to the food and drink
6 retail settings and at that same time four Canadians
7 died of lightning strikes. It seems in that 16 month
8 period to be an extremely low place of transmission.

9 A. Sir, I'm going to have to perhaps go over
10 this again and I apologize if I'm repeating myself. The
11 rationale for measures that limit restaurants is to
12 prevent Covid transmission and in preventing Covid
13 transmission it protects all those vulnerable people who
14 live in long term care, who live in extended
15 multigenerational households. So, if you ask me, do I
16 agree where the deaths happen? I don't disagree, it's
17 not the relevant framework for defining the scientific
18 basis for public health measures because it's
19 transmission reduction that is the goal not counting the
20 deaths.

21 196. Q. Well, back to this concept of conducting
22 let's say a cost-benefit analysis in relation to the
23 idea of lockdown and the idea of closure. Do you think
24 that that's an important element in the overall
25 undertaking of healthcare as it applies to this sector;

1 cost-benefit analysis being conducted to determine
2 what's best for the society?

3 A. I think it's a useful framework. It's not
4 clear to me how we would come to any societal agreement
5 about what are the relevant costs and how to value them.
6 There's a whole bunch of details there, but I think that
7 all of the recommendations of public health officials
8 are typically framed in terms of if this than that and
9 so elected officials then make their decisions based on
10 the advice they receive from public health officials,
11 from advocates for other stakeholders.

12 197. Q. Dr. Bridle makes a statement that,
13 "A failure to conduct proper cost benefit
14 analysis in Canada during the pandemic has
15 inadvertently resulted in greater value being
16 attributed to lives lost due to Covid-19."
17 Do you agree with that?

18 A. I'm not privy to whether those cost-benefit
19 analyses have been completed or not. So, I can't ---

20 198. Q. No, it's not -- I'm not asking you to be
21 privy to that, I'm saying his statement is a failure to
22 conduct cost-benefit analysis.

23 A. But because I'm not adequately informed as
24 to whether that failure exists, I can't comment on that
25 conclusion.

1 199. Q. But in providing advice to Public Health
2 Ontario you don't think that that's an important point
3 that should be dealt with?

4 A. Sorry, who's providing advice to Public
5 Health Ontario?

6 200. Q. You as a consultant.

7 A. No, no, my consulting is related to
8 supporting the government in relation to actions like
9 the one initiated by your client. So, if you're ---

10 201. Q. Supporting actions like what was the
11 initiative ----

12 A. So, I am retained as a public health expert
13 for the purpose of supporting Public Health Ontario and
14 the government's response to various legal actions.

15 202. Q. Oh. I got the impression that what you were
16 saying when you said you were a consultant to Public
17 Health Ontario that you were advising them in relation
18 to measures to be undertaken in relation to this
19 pandemic.

20 A. That's not stated in the Affidavit.

21 203. Q. So, you're clarifying for me then what your
22 actual -- your actual role then if I understand you
23 correctly is that you're there to assist Public Health
24 Ontario in any legal proceedings that are commenced vis-
25 á-vis this pandemic?

1 A. At this time, yes.

2 204. Q. So, you're a specialist then when it comes
3 to any legal challenges to the protocols and lockdowns,
4 et cetera?

5 A. I think it would be hard to define a
6 specialist in that regard. I'm a public health and
7 preventive medicine physician. I have 20 years of
8 practice experience and public health Ontario asked me
9 to take on this work when my role in regard to their IMS
10 structure came to an end.

11 205. Q. On Page 21 of Dr. Bridle's report, again,
12 Carly could you put that up, please? At the top of the
13 page he says,

14 "Conclusion: the IFR for SARS-Cov-2 was vastly
15 overestimated at the beginning of the declared
16 pandemic."

17 Do you agree with that, sir?

18 A. Yes.

19 206. Q. "It's now approaching the range of serious
20 Influenza outbreak, but with severity of disease
21 limited to a more restricted demographic in that
22 it's not particularly dangerous to the very
23 young [is his statement]. An IFR of only 0.15
24 percent is not suggestive of an infectious disease of
25 pandemic proportions."

1 Do you agree with that?

2 A. No.

3 207. Q. Why not?

4 A. Because as I may ---

5 208. Q. I'm sorry, you froze there. I didn't hear
6 your answer.

7 A. As I've said repeatedly so I'll say it
8 again. The IFR is not a particularly useful measure for
9 practice. If there are no hospital beds in Ontario
10 available it really doesn't matter what the IFR is, the
11 government will presumably feel some compulsion to act
12 to protect the health of its citizens whether from
13 Covid-19 or lightning strikes, more importantly heart
14 attacks, cancer, other health conditions. So, we can
15 have an academic conversation, your expert and I that
16 could go on for years about what the IFR is, there's no
17 way of knowing and its actual value is unlikely to be
18 relevant to decision making that governments have faced
19 in the last six to nine months since really the rise of
20 wave two.

21 209. Q. Well and Dr. Bridle says that,
22 "Historically successful public health policy of
23 isolating the relatively few high risk
24 individuals, not the entire population; in fact
25 places like the State of Texas in the U.S.A.

1 have demonstrated that lifting of Covid-19
2 associated restrictions can even be done
3 successfully without any non-pharmaceutical
4 interventions."

5 Do you agree with that?

6 A. I defer to the tens of thousands of Texans
7 who are dead who would be alive if they'd been in
8 Ontario.

9 210. Q. Well, the statistics will speak for
10 themselves as you said, but this ---

11 A. I just want to have it on the Record that
12 the number of deaths in Texas if applied to the Province
13 of Ontario would be a threefold increase with roughly
14 16,000 additional deaths in addition to the 8,000 people
15 who are already dead and so I'm not going to agree with
16 this statement.

17 211. Q. Okay. Dr. Bridle says,
18 "Certainly the evidence suggests that food
19 service establishments have not been a
20 substantial source of severe cases of Covid-19
21 based on the only three reported deaths
22 associated with it."

23 Do you agree with that?

24 A. Dr. Bridle has a very simple model of
25 infectious disease transmission and as a public health

1 practitioner I need a more complex model. Dr. Bridle's
2 absolutely correct that people who got Covid in a
3 restaurant may not have died from it, but they gave it
4 to family members, they gave it to people they cared for
5 in hospitals and long term care and those people are
6 dead.

7 212. Q. You told me earlier on that we shouldn't be
8 counting deaths that that's not what we should be doing.

9 A. No, but that's -- my point is the reason for
10 limits on restaurants is to try to break that
11 transmission chain. So, whether the number of deaths in
12 restaurants is higher or lower than would be acceptable
13 to this or that expert, the focus of public health
14 practice is on the transmission chains and how do we
15 break those in a way that we can prevent deaths down the
16 road and prevent hospitalizations which for Ontario have
17 probably been the main driver of the stringency or lack
18 thereof of public health measures.

19 213. Q. Well, one big conclusion that he makes here
20 is that,

21 "Closing businesses that are not associated with
22 a substantial risk of transmission of severe
23 Covid-19 and causing many of them to go bankrupt
24 seems to be counterproductive."

25 What do you think of that statement?

1 A. I would need data on how many of them have
2 gone bankrupt in relation to previous years.

3 214. Q. Well, let me put it to you this way. It's
4 probably something that you could take notice of that in
5 the 16 month period there are many, many businesses that
6 are failing. Have you observed that?

7 A. I've observed empty storefronts, but I live
8 in a part of the city with many empty storefronts, so
9 it's not my area of expertise to comment on the failure
10 rate of businesses.

11 215. Q. You keep saying these things about it's not
12 being your area of expertise and yet you are here as an
13 expert in public health and it seems to me that there
14 are certain things that you're prepared to notice, but
15 other things you're not going to notice and specifically
16 when we talk about cost-benefit analysis and these kinds
17 of things. Do you not think that these issues are
18 extremely important when we're talking about the whole
19 setup of humanity in let's just say the Province of
20 Ontario? That cost-benefit analysis for instance is an
21 extremely important issue as it applies to mental
22 health, as it applies to physical health, as it applies
23 to psychological health. What do you think?

24 A. I think you're absolutely right and in fact
25 those issues are so important that those discussions and

1 tradeoffs happen -- should happen at the highest levels
2 of our elected governments.

3 216. Q. Perfect. Let's deal with what he has to say
4 about your variants of concern. Again, that was in your
5 Paragraph 10 and I'll just quote,

6 "Ontario's context has evolved with increases in
7 the prevalence of variants of concern. Variants
8 of concern or VOCs are reported to be more
9 transmissible and cause more severe illness."

10 This is what Dr. Bridle says, and this is again this is
11 at Page 21 and I'm just under Number 8. He says,

12 "Although this can promote transmission, that is
13 VOCs, there is no evidence that the current VOCs
14 cause more severe illness. In fact the very
15 citation that was used to support this claim
16 from Dr. Hodge states the following in the
17 abstract: "the authors saw no clear evidence for
18 a change in disease severity.""

19 That seems to be contrary to what you're saying.

20 A. Your expert has actually selected among the
21 three Exhibits at Footnote 7.

22 217. Q. Well, he's taken the Citation 33 ---

23 A. So, the paper in science reported on the
24 transmissibility in England. Exhibit H from the science
25 table and Exhibit I from Public Health Ontario both

1 raise concerns that these are causing more severe
2 illness and in part because the phenomenology of the
3 VOCs in Ontario was increasing hospitalizations among
4 younger people.

5 218. Q. The footnote that he refers to is "estimated
6 transmissibility and impact of SARS-CoV-2 lineage."

7 A. Right, so I want to be clear though that the
8 way the Affidavit that I wrote is laid out in Paragraph
9 10 Reference 7 references three distinct exhibits. He
10 has chosen one of those and I do not disagree with what
11 he says here. I also note that he did not choose to
12 acknowledge that this paper in science reported
13 increased transmissibility and that was the point of
14 including it because the first evidence we had from the
15 U.K. was that the B117 caused increased
16 transmissibility. The experience in Ontario captured in
17 Exhibits H and I speaks to the concern that it's causing
18 more severe illness.

19 219. Q. Well, his statement at Page 21 is that,
20 "However the historically successful strategy to
21 deal with a pathogen especially one that has an
22 IFR of less than 1 percent and that is only a
23 major concern for a very limited well defined
24 demographic is to let the low risk individuals
25 learn to live with the virus thereby naturally

1 acquiring protective immunity and by doing so
2 abrogating the risk for those for whom the
3 pathogen may be lethal. To understand this
4 latter strategy some basic virology and the
5 concept of natural acquisition and immunity need
6 to be discussed."

7 Do you agree with that statement, Dr. Hodge?

8 A. Again, as a matter of academic interest I'm
9 not in disagreement. The practical problem or the
10 practical challenge we face in Ontario is that in the
11 course of "allowing the low risk individuals to learn to
12 live with the virus" in multigenerational families
13 across the GTA they will kill their grandparents and
14 parents and that is a -- in the social context of
15 Ontario, the most highly affected communities are marked
16 by significant numbers of multigenerational, high
17 density households and the public health advice from the
18 science table and from public health Ontario has been --
19 has needed to acknowledge that the risk is not the same
20 for all Ontarians. Dr. Bridle perhaps has the good
21 fortune and the space not to live in a high density
22 household, but the fundamental -- this is not factually
23 incorrect, it's just theoretically impossible -- sorry
24 it's theoretically abstract and practically impossible
25 because the cost of that would be death and infection

1 within those households. And so to speak to your point
2 about tradeoffs and cost-benefit analysis we can infer
3 from this that the government decided that rather than
4 detain people who are younger out of their
5 multigenerational households to "protect their parents
6 and grandparents" the government would opt for a set of
7 broad public health measures that apply to the entire
8 population. We can disagree or agree about whether
9 that's the right choice, but I think that's an example
10 of the very real practical tradeoff that this Covid-19
11 situation, pandemic if you prefer, has forced upon
12 public health officials and governments.

13 220.

Q. Dr. Bridle says this,

14 "Like many other viruses including other
15 coronaviruses and Influenza viruses, SARS-CoV-2
16 will likely become endemic meaning that we may
17 encounter new versions of the virus on a regular
18 and long term basis. As such, it is imperative
19 that we learn to live with SARS-CoV-2 rather
20 than attempting to hide from it just like we
21 have done with the other respiratory pathogens
22 that we have accepted as a tradeoff for living
23 our lives outside the confines of lockdowns."

24 Do you agree with that, sir?

25 A. I'm sorry, I can't follow the language

1 you're reading. Could you scroll to that section?

2 221. Q. Sure. Page 22 and it's just under
3 Conclusion and it'll be the last two sentences of the
4 Conclusion.

5 A. I mean I think that Dr. Bridle is certainly
6 establishing an aspirational goal for all of us. What's
7 missing from the analysis here is the notion of time in
8 that it will take time for societies globally and
9 communities in every country to figure out what are
10 those tradeoffs and that's an evolving area which 15 or
11 16 months or if we go back to December 31st, 2019 when it
12 was first characterized in Wuhan 17 months is probably
13 not enough time for us to have come to a settled place
14 about what this endemicity means for us and I note that
15 he doesn't propose a timeline for how long it should
16 take us to learn to live with this.

17 222. Q. Well, he makes commentary on your Paragraph
18 29 wherein you state,

19 "It may be theoretically possible to argue that
20 contact tracing would be a reasonable
21 alternative arguing that if an infection
22 occurred then patrons could be contacted and
23 advised to self-isolate and be tested or other
24 public advice."

25 And then you argue that this does not represent a

1 reasonable alternative. What about other alternatives
2 in relation to the treatment and prevention of Covid-19?
3 Are you aware of any other alternatives that would be
4 safe and effective for the treatment of Covid-19 aside
5 from vaccination and lockdowns?

6 A. Well, we know that patients who are
7 requiring oxygen will have improved outcomes if they're
8 treated with intravenous steroids, but I sense that's
9 not the treatments you have in mind.

10 223. Q. Well, what about things such as Ivermectin?

11 A. I think the science is a dynamic evolving
12 space. My understanding is that there have yet to be
13 trials of Ivermectin that would meet the standard for a
14 regulatory approval of Ivermectin.

15 224. Q. Well, as a treating physician have you ever
16 administered Ivermectin?

17 A. Not for Covid-19.

18 225. Q. Has there been any directive that Ivermectin
19 is to be suppressed or downplayed?

20 A. No, not that I'm aware of. There's a
21 fundamental principle, perhaps as in your profession,
22 that if a professional practice involves following
23 certain regulatory and legal frameworks and so medicines
24 that are not approved for human use in particular
25 conditions can only be prescribed under special

1 circumstances and my understanding is that Ivermectin
2 has not been -- the makers of Ivermectin have not
3 pursued that with respect to Covid-19.

4 226. Q. Well, I don't understand what you mean. The
5 makers of Ivermectin have not pursued what?

6 A. Marketing approval so that I could prescribe
7 it for Covid-19.

8 227. Q. Are you saying Ivermectin is not on the
9 market presently and not available for alternative
10 remedy for Covid-19?

11 A. I'm saying that the professional standards
12 for medical practice in Ontario there's a process that
13 is to be followed for the prescribing of medicines and
14 so prescribing medicines for so called off label use
15 some physicians may do that, but it's not my usual
16 practice and it has not been my practice with respect to
17 Ivermectin.

18 228. Q. What about Hydroxychloroquine?

19 A. No.

20 229. Q. You don't view that as being an alternative
21 treatment?

22 A. The science that I've reviewed and the lack
23 of a regulatory framework for making it prescribeable
24 for Covid-19 would preclude my doing that.

25 230. Q. At the bottom of Page 22 Dr. Bridle says,

1 "My original report described in detail the
2 overwhelming science in support of the use of
3 Ivermectin as an effective early treatment
4 strategy for reducing severity of disease,
5 reducing admissions to hospital especially
6 intensive care units and for preventing deaths.
7 Indeed since my first report a peer reviewed
8 scientific article was published that summarizes
9 the cutting edge data regarding the effective
10 use of drug combination therapies this paper is
11 entitled *Early Ambulatory Multi Drug Therapy*
12 *Reduces Hospitalization and Death in High Risk*
13 *Patients*. There are also simple preventative
14 measures that are available including
15 supplementation with Vitamin D."

16 What do you say to that, Dr. Hodge?

17 A. Science is dynamic and evolving and at such
18 time as there's a settled consensus on a regulatory
19 approval for the use of agents, whether Ivermectin or
20 others, that's great, but at this time there is not.

21 231. Q. Well, his statement is that,

22 "There's overwhelming science in support of the
23 use of Ivermectin as an effective early
24 treatment strategy."

25 A. He's certainly welcome to do it in his own

1 practice then.

2 232. Q. And as far as you're concerned then that's
3 not something that you think is worthy of consideration?

4 A. It may be worthy of consideration, but
5 absent a regulatory framework for its safe and legal
6 use, I think it should be reserved for the parasitic
7 conditions for which it's been shown to be of
8 outstanding benefit.

9 233. Q. He's saying that there's overwhelming
10 science in support of the use of Ivermectin for the
11 treatment of Covid-19, very specific.

12 A. As I said he's entitled to use it in his own
13 practice. I would direct you to Health Canada
14 pharmaceutical approval approaches and perhaps you're
15 already familiar with that. There can be science in the
16 sense of people write papers and they all agree with
17 each other and then there's a separate process where
18 that science informs regulatory approval and that exists
19 entirely to protect patients quite honestly from the
20 science getting ahead of practice and perhaps studies
21 that are poorly designed to not include appropriate
22 comparisons, do not have randomized trials. So, I hope
23 you can appreciate that I haven't read all of the
24 references that your expert provided, but I think it's
25 important that you appreciate that medical practice is

1 not just about going out and doing science and suddenly
2 applying it to a patient, it involves a whole series of
3 processes and safeguards so that patients are protected
4 from or have reduced risks of bad outcomes.

5 234. Q. What about the idea of the benefit of
6 Vitamin D in the context of the function of the immune
7 system? What do you think about that in terms of you'll
8 see here at Page 20 -- go to Page 23 Dr. Bridle says,

9 "As an immunologist I routinely teach the
10 benefits of Vitamin D in the context of the
11 function of the immune system."

12 Are you familiar at all with the impact and effects of
13 Vitamin D in relation to this?

14 A. In relation to his teaching, no.

15 235. Q. No, immune system. The function of the
16 immune system.

17 A. You know, science is dynamic and evolving.
18 The immune system in the laboratory setting or in a
19 mouse often behaves quite differently from the immune
20 system in an intact human and in order to -- the science
21 that would be relevant is not 77 peer reviewed articles,
22 it's actually a randomized trial where patients are
23 given Vitamin D versus placebo and the outcomes would
24 need to be better in the Vitamin D supplemented group and I
25 noted reading this briefly that Dr. Bridle does not

1 identify any such study.

2 236. Q. Well, he's identified 77 peer reviewed
3 scientific articles that demonstrate the importance of
4 Vitamin D to the proper functioning of the human immune
5 system to kill SARS-CoV-2.

6 A. So, I would ask your expert to produce any
7 of those which are randomized controlled trials in
8 intact humans and I submit to you that these are a
9 variety of studies, I haven't reviewed them all so I
10 hesitate to pronounce judgement, but when I see this
11 type of thing in the scientific literature it's
12 typically going to include laboratory studies, studies
13 of cells in petri dishes, perhaps some studies in
14 humans, non-randomized studies; the standards are very
15 high for substances we're going to give humans with
16 randomized trials where people are blinded to the
17 allocation, people are blinded to the outcome and if
18 that's -- I would propose to you that if Dr. Bridle had
19 identified such a study he would have given it much
20 greater prominence because we probably wouldn't be
21 having this conversation because if that study existed
22 governments would be rushing to get something as
23 inexpensive as Vitamin D into people to reduce hospital
24 use, get out of this pandemic, get back to life.

25 237. Q. Well, that's exactly the point. You're bang

1 on the money there. He basically says that these
2 studies,

3 "Clearly demonstrate that Vitamin D
4 insufficiency follows a seasonal trend in
5 Northern countries such as Canada. This is due
6 to a lack of exposure to sunlight which allows
7 Vitamin D to be naturally produced in the skin.
8 These studies also show that Vitamin D
9 sufficiency is strongly associated with lower
10 risk of developing Covid-19, less severity of
11 Covid-19, reduced hospital admissions, faster
12 recovery if admitted to hospital and
13 importantly, a reduced risk of Covid-19 induced
14 death."

15 So, all of the things that you're telling me that are
16 extremely important to deal with these studies
17 demonstrate that they have an impact, a very high level
18 impact on hospitalizations and on deaths and on the
19 severity of the disease. Is that not persuasive at all
20 to you?

21 A. So, if it were to be persuasive I would
22 expect Dr. Bridle following the academic conventions in
23 which I was trained, to have called out the specific
24 studies and the extent of the impacts. So, when I see
25 this general portmanteau statement which no specific

1 reference because there's a list of references from 39
2 through 115 and then a series of assertions with no
3 references, I am cautious and I had not expected our
4 conversation to include a review of this. If that's
5 felt to be of interest to both parties I can go back and
6 do that, but my position remains unchanged. I see no
7 evidence of a randomized trial that would meet the
8 standards for a recommendation to prescribe Vitamin D
9 for this particular condition.

10 238. Q. That's about as circuitous as it can get,
11 but when we're talking ---

12 A. No, it's very straightforward, sir.

13 239. Q. When we're talking about 77 peer reviewed
14 studies as you've indicated 39 through to 115 and the
15 conclusions that they come to impact directly on the
16 issue that we're speaking about. In fact this is what
17 Dr. Bridle said,

18 "It is shocking that such a large body of
19 scientific evidence has been ignored and/or
20 dismissed by public health officials in Canada."

21 And this would appear to be what you're saying is that
22 really those 77 peer reviewed studies, while the fact
23 that they come to these conclusions, doesn't convince
24 you. Is that the way you see it?

25 A. No, I think I'm going to say it again. In

1 order for a substance to be prescribeable for human use
2 it typically has to receive regulatory approval and part
3 of that process, a significant part, is the provision of
4 high quality scientific evidence from randomized trials
5 in humans. A randomized trial means that half the
6 people get the active medicine and half don't. They
7 don't, in the best designed trial, they don't know which
8 one they got and the people who determine the outcomes
9 don't know which one they got because that's the way to
10 avoid bias, to avoid a whole bunch of factors that can
11 affect science, but that can be misleading. So, if we
12 look back in recent human history there have been
13 unfortunate situations where medicines were rushed into
14 production because it was felt to be so important, we
15 don't have time to do the right studies and patients
16 were harmed. So, at such time as Dr. Bridle or others
17 have a randomized controlled trial showing that Vitamin
18 D is supplementation because that's the issue here, is
19 prescribing or giving Vitamin D which is different from
20 whether you have Vitamin D insufficiency or sufficiency.
21 That it can reduce risk of Covid death and Covid
22 hospitalization? I think people would be thrilled to
23 see that, but I think if you imagine that there's this
24 elaborate system where there's a simple cheap medicine
25 called Vitamin D that's being actively withheld from

1 patients by governments or physicians, I don't have
2 anything to say in response to that.

3 240. Q. Vitamin D is not something you have to
4 prescribe, correct?

5 A. Well, for many patients if they're in a long
6 term care facility they're only administered medicines
7 which are prescribed by a physician. Other people may
8 not be able to afford it, but I think you're missing the
9 point.

10 241. Q. Well, there's something that you can buy
11 right off the shelf, right?

12 A. And that -- you're entitled to take Vitamin
13 D if you believe it's going to fix your Covid. I think
14 the basis for a population recommendation the standard
15 of evidence must be higher and our government has made
16 that clear to us.

17 242. Q. Vitamin D is not being used to solve the
18 problem of Covid, it is as he's indicating, an effective
19 preventative strategy. Let me just read to you,

20 "According to the massive body of scientific
21 evidence public health officials by not
22 promoting the use of Vitamin D have caused
23 Canadians to miss an effective preventative
24 strategy. As a result Canadians have suffered
25 substantially greater Covid-19 induced

1 morbidities and mortalities. Indeed many
2 proactive physicians were trying to promote
3 this. None of this science is novel for
4 infectious respiratory pathogens.”

5 Would you agree with that?

6 A. I'd have to review the 77 papers, but I
7 stand by my initial statement that if there were a
8 randomized trial that showed that Vitamin D use
9 promotion would have prevented Covid-19 I think we'd be
10 having a different conversation and because we're having
11 the conversation we have I think I'm on fairly solid
12 ground to say that evidence has not reached the
13 threshold that would meet the standards for governments
14 to make the sort of recommendation that your expert
15 chastises them for not making.

16 243. Q. Well, he's not saying that Vitamin D
17 prevents Covid-19, he's saying that it's a preventative
18 measure ---

19 A. I think that's exactly what he's saying.

20 244. Q. A preventative measure that reduces the
21 severity of it and ---

22 A. So, then let's see the randomized trial that
23 shows that because it's not here.

24 245. Q. Well, I guess this is a good point is that
25 will you look at those 77 peer reviewed studies?

1 A. I would have to discuss with Counsel.

2 246. Q. All right. Irrespective of this does it
3 intrigue you at all as a physician that there are 77
4 peer reviewed studies on the effectiveness of Vitamin D
5 in relation to Covid-19, does that intrigue you at all?

6 A. No, it doesn't and I'll tell you why.
7 There's probably an equal number that suggest that
8 Aspirin prevents colon cancer and after years of --
9 hundreds of papers talking about Aspirin would prevent
10 colon cancer I believe the NIH in the United States
11 funded the definitive study among humans. People were
12 given Aspirin, people were given placebo and low and
13 behold there was no effective protective Aspirin on
14 colon cancer. So, my professional career has been
15 punctuated by these episodes of bursts of scientific
16 papers and then when we do the real study that's going
17 to change human health unfortunately they don't meet our
18 expectations.

19 247. Q. So, I take it your answer is it doesn't
20 intrigue you at all?

21 A. There are many things in life that intrigue
22 me, but unfortunately in the pandemic my job has taken
23 over most of the time that I have available. This
24 particular one I would simply say if your expert can
25 produce the randomized trial that shows the definitive

1 change in outcome associated with Vitamin D
2 supplementation, I'd be thrilled to see it, but when I
3 look at the literature I don't find that.

4 248. Q. Okay. Well, we'll take that under
5 advisement. This might not be a bad idea for us to take
6 a break. You've been here since 1:30. So, why don't we
7 take a 15 minute break and come back let's say at 4:15.
8 Is that okay with you, Counsel?

9 MR. RYAN: The break is fine. Do you have an
10 idea of how long you'd be continuing after 4:15?

11 MR. SWINWOOD: Yeah. It looks to me like we'd
12 have to continue tomorrow.

13 MR. RYAN: We can continue another day. I'm not
14 sure of everyone's availability tomorrow, but I think we
15 can agree that we can adjourn for today I think shortly
16 around the close of business, 5:00?

17 MR. SWINWOOD: Yeah, okay. So, if we come back
18 at 4:15 we'll finish off at 5:00 and then we'll figure
19 out where we go from there.

20 MR. RYAN: Okay, thank you.

21 (SHORT RECESS)

22 BY MR. SWINWOOD:

23 249. Q. Dr. Hodge, in our discussion about Vitamin D
24 and the position that you've taken in relation to the
25 studies, et cetera and how you see the need for there to

1 be more definitive study, how does that compare to the
2 treatment by way of vaccination? In other words what
3 kind of studies do we have to rely on as regards to the
4 effectiveness and safety of the vaccinations?

5 A. Well, with respect to the mRNA vaccines by
6 Pfizer and Moderna, they undertook studies in multiple
7 countries where people were randomized to vaccine versus
8 placebo and they then followed those people very closely
9 to look at infection rates and they published those
10 results in peer reviewed publications and made them
11 available to regulatory authorities in multiple
12 countries where those vaccines are now being given to
13 humans.

14 250. Q. Can you point to me where those studies are?

15 A. So, I believe the Pfizer one is in the New
16 England Journal of Medicine. I can get back to you
17 through Counsel with the details.

18 MR. SWINWOOD: Yeah, would you be kind enough,
19 Counsel, to undertake to provide those studies that Dr.
20 Hodge has referred to, please?

21 MR. RYAN: Yes, we can do that.

U

22 THE WITNESS: Could you just clarify the scope,
23 please, sir? Just for Pfizer, just the vaccines
24 approved in Canada?

25 BY MR. SWINWOOD:

1 251. Q. All the ones that have been emergency
2 approved.

3 A. In Canada?

4 252. Q. Yes, in Canada, yes. What about the concept
5 of study of the results of those who have been
6 vaccinated in terms of injury and harm? Are there
7 studies, are there statistics available presently in
8 relation to that?

9 A. So, Canada has what's called AEFI reporting
10 system for adverse events following immunization. Those
11 data are maintained by provincial ministries of health
12 and rolled up to federal level for national data.

13 253. Q. Are you aware of those studies presently?

14 A. I think it's helpful to distinguish between
15 studies which is an experiment where for example the
16 randomized trial half the people get one thing, half get
17 another and reporting systems. So, the AEFI system is
18 not a study, it's a reporting system. Are there reports
19 available from the AEFI system? I would have to get
20 back to you on that.

21 MR. SWINWOOD: Yes, please. If I could have
22 your undertaking to look at that and provide us what you
23 can from those studies.

24 MR. RYAN: We'll take that under advisement.

A

25 MR. SWINWOOD: Did you take the other one under

1 advisement or just this one?

2 MR. RYAN: We agree to provide the first
3 undertaking and this one we'll take under advisement.

4 BY MR. SWINWOOD:

5 254. Q. Okay. Now, I'll just -- I guess I'll just
6 try and finish off with Dr. Bridle's thing here.
7 That'll probably be the best way for us to finish the
8 day is to finish off with Dr. Bridle rather than get
9 into another section that I'll have to split up. I'll
10 just finish the day here with Dr. Bridle. So, one of
11 the issues that you raised in your report that you've
12 mentioned masks and you've mentioned masks particularly
13 in relation to restaurants. So, I'll go to Page 28.
14 Now, Dr. Hodge have you yourself done any studies or
15 looked at any studies in relation to the effectiveness
16 of masks during a pandemic?

17 A. Yes.

18 255. Q. Can you tell me what you've looked at? Can
19 you identify that?

20 A. So, I don't have the specific file with me.
21 Roughly a year ago when I was working with Peel we
22 undertook a review informally to understand how to
23 approach the sort of contending perspectives where we
24 had people who were particularly assertive that masks
25 would be helpful and people who were adamant they would

1 be of no benefit whatsoever and you know the challenge
2 with Covid-19 is it's a relatively new pathogen so we
3 looked to evidence primarily from healthcare settings
4 for other respiratory pathogens and it was a general
5 pattern within those sort of heterogeneous studies of
6 some benefit.

7 256. Q. Again, can you undertake to provide us with
8 the studies that you looked at a year ago?

9 A. No.

10 257. Q. Why?

11 A. Because I don't have them.

12 258. Q. Oh. Do you know, are they in existence?

13 A. I'm sure the studies still exist, but it was
14 work I did with Peel Public Health, so it's their
15 intellectual property.

16 259. Q. Oh, I see, I see. So, how long a study was
17 that?

18 A. I'm sorry, I don't follow your question.

19 260. Q. Well, you said that there was an informal
20 study undertaken at Peel.

21 A. Yeah, so we looked at what were other
22 jurisdictions recommending, what were the -- were there
23 any sort of systematic reviews which are typically
24 efforts to bring together the results from multiple
25 studies.

1 261. Q. Okay. Now, Dr. Bridle is basically stating
2 the proposition that the primary mode of transmission of
3 SARS-CoV-2 was via large water droplets coming from the
4 respiratory system. Do you agree with that?

5 A. I'm sorry, can you show me where Dr.
6 Bridle's referring to that?

7 262. Q. Yeah. Page 28 under Number 11 and it would
8 ---

9 A. The language I see about large water
10 droplets is actually the opposite. He's setting that up
11 to then refute it. So, maybe you could develop your
12 question a bit more, please?

13 263. Q. Yeah, sure.
14 "It is now widely recognized that SARS-CoV-2 is
15 effectively spread via aerosols coming from the
16 respiratory system. A pulmonary aerosol is a
17 suspension of fine water droplets suspended in
18 exhaled air."

19 Do you agree with that statement?

20 A. I think that I would say that I cannot agree
21 with the statement as written because it seems to be
22 establishing an either or and I think the scientific
23 consensus is currently both and.

24 264. Q. Please amplify that for me. What do you
25 mean "and"?

1 A. So, SARS-CoV-2 Covid-19 is spread by
2 droplets with a range of sizes and public health people,
3 infection prevention and control people, engineering
4 people, perhaps virologists do not have a shared view of
5 what happens with different sizes of those droplets and
6 even what they're called.

7 265. Q. Dr. Bridle goes on to say,
8 "The masks in common use among Canadians,
9 surgical and cloth masks, lack standardization,
10 users are not required to undergo fit testing
11 and even if they were done they would still lack
12 the ability to prevent the spread of aerosols."

13 Do you agree with that?

14 A. I think Dr. Bridle is using very absolute
15 categorical language and I think the evolving science to
16 my understanding is that there is a continuum and so I
17 would not choose this assertive statement way and thus I
18 do not agree.

19 266. Q. Do you agree with him that the eyes can
20 potentially serve as a portal of entry and a source of
21 person to person transmission?

22 A. Those are two distinct concepts. So, I
23 would say that there's evidence that a virus introduced
24 via the eyes can cause infection in humans. My eyes
25 don't infect you.

1 267. Q. That's not the statement. The statement is
2 that to potentially serve as a portal of entry and a
3 source of person to person transmission. That's the
4 statement.

5 A. So, I would need to understand what your
6 expert means by a source of person to person
7 transmission. My eyes are sufficiently sunk into my
8 head that I'm not able to rub them against another
9 person's eyes.

10 268. Q. All right.

11 A. So, what does your expert mean?

12 269. Q. Well, we'll come back to that because there
13 are other reports that we can reflect back on this. For
14 now I'll just leave it at that for now, but we'll come
15 back to it at a moment when we ---

16 A. So, I think it would be helpful if you're
17 coming back to it to clarify the language because ---

18 270. Q. Yes.

19 A. --- a source of infection for person to
20 person transmission that needs to be more specific for
21 me to be helpful in my response.

22 271. Q. Okay. One of the things that he says is
23 that,

24 "The low cost masks fail to stop the spread of
25 SARS-Cov-2. One of the biggest challenges in

1 relaying the science is the invisibility of the
2 microbial ---

3 A. Would you be so kind as to scroll to the
4 material you're reading so I could follow along?

5 272. Q. Oh, I'm sorry. Page 29. Very sorry and
6 it's at the bottom of the second paragraph.

7 A. Thank you.

8 273. Q. The sentence "once of the biggest
9 challenges".

10 "To place this into context that is easier to
11 picture this would be akin to thinking that a
12 person is locked inside a house when the walls
13 have huge gaping holes. The leakage points were
14 there, proper seals are lacking and the front
15 door is opening representing the poor size of a
16 mask. The reality of this scenario is that the
17 person is free to come and go as they wish."

18 I take it that his point is, is that in essence the mask
19 itself has no effect in relation to the concept of
20 transmission. Do you agree or disagree with that?

21 A. I respectfully disagree. I think that if
22 the expert wishes to take the view -- your expert wishes
23 to take the view that all transmission is by small
24 droplets then that would run counter to the general
25 sense of the science of which I note is dynamic and

1 evolving of Covid transmission. So, there will be a
2 range of size droplets produced and the goal of masking
3 is not to prevent all those droplets, it's to reduce the
4 number and thus the number of viral particles that could
5 be delivered to another person. So, in the same way
6 that a condom is not 100 percent effective against STIs
7 or pregnancy because it may not be used correctly there
8 are a whole bunch of other factors, masks have some
9 similarity to condoms. We recommend them because they
10 produce a risk reduction, not because they're perfect.

11 274. Q. Well, the whole concept here is this idea of
12 transmission. Have you seen any studies or have you
13 availed yourself of any studies that speak to the harms
14 that can be caused by people who wear a mask eight hours
15 a day?

16 A. I'm certainly aware of the reports of
17 individuals who cite health concerns that arise from
18 wearing a mask. There are people who have a
19 philosophical position that it undermines our social
20 interactions as humans and ---

21 275. Q. But let's talk -- I'm sorry.

22 A. I think we can see in the behaviour of
23 Ontarians and people in other jurisdictions that
24 individuals balance the public health advice with the
25 other things that are important to them and they reach a

1 personal choice around mask use or not.

2 276. Q. Well, I'm not even talking about that
3 concept, I'm talking about health concerns; I'm talking
4 about rashes, I'm talking about breathing in your own
5 air which is supposed to be expelled. What about those
6 kinds of situations?

7 A. I think you'd need to direct me to the
8 science that you have in mind.

9 MR. SWINWOOD: So, that's what we'll do is
10 because I do believe that there are many articles in
11 what's to come here in the finalization of this Cross-
12 Examination that will allow us to return to that. I
13 have two other Affidavits of Reply that I want to go
14 into and I think for now what we'll do is we'll leave it
15 here now and then Counsel and I will discuss when we can
16 continue this. I would expect half a day will do it.
17 So, Madam Reporter, Counsel and I will discuss this and
18 then we will get back to you about setting another half
19 day.

20 THE COURT REPORTER: Would you like to go off
21 Record now?

22 MR. SWINWOOD: Yeah, I think so.

23

24 --- WHEREUPON THE EXAMINATION ADJOURNED AT THE HOUR OF
25 4:30 IN THE AFTERNOON.

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THIS IS TO CERTIFY THAT the foregoing is a true and accurate transcription from the Record made by sound recording apparatus to the best of my skill and ability.



.....
Amberley Stevens, Catana Reporting Services

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Examination No. 21-0776

Court File: CV-20-00652216-000

VOLUME II

ONTARIO SUPERIOR COURT OF JUSTICE

B E T W E E N:

HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO
Applicant/Respondent

- and -

ADAMSON BARBECUE LIMITED and WILLIAM ADAMSON SKELLY
Respondents/Applicants

CONTINUED VIRTUAL CROSS-EXAMINATION OF DR. MATTHEW
HODGE on his Affidavit sworn May 14, 2021 pursuant
to an appointment made on consent of the parties to
be reported by Catana Reporting Services, on June 2,
2021 commencing at the hour of 9:24 in the forenoon.

APPEARANCES:

Padraic Ryan and Liza Swale for the Applicant

Michael Swinwood for the Respondents

ALSO PRESENT:

William Adamson Skelly
Chris Weisdorf
Carly Benjamin
Emily Graham
Amy Leamen
Sonya Molyneux

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DATE TRANSCRIPT ORDERED: June 2, 2021

DATE TRANSCRIPT COMPLETED: June 8, 2021

1 DR. MATTHEW HODGE, RECALLED

2 CONTINUED VIRTUAL CROSS-EXAMINATION BY: MR.

3 SWINWOOD

4 277. Q. So for the Record, this is a continuation of
5 the Cross-Examination of Dr. Matthew Hodge in relation to
6 his Affidavit sworn May 14th, 2021. And I'm wondering,
7 do we need to have Dr. Hodge affirmed again?

8 MR. RYAN: That's up to you. You could ask him
9 if he understands whether his previous affirmation
10 continues to be in effect, maybe.

11 MR. SWINWOOD: Yeah, okay, thank you.

12 BY MR. SWINWOOD:

13 278. Q. Do you understand, Dr. Hodge that your
14 previous affirmation continues to be in effect?

15 A. I do.

16 279. Q. Okay, thank you. Okay, Dr. Hodge, I'd like
17 to deal quickly, if I can, with the Reply Affidavit of
18 William Briggs -- I'm sorry, Douglas Allen, Professor
19 Douglas Allen. Did you have an opportunity to read the
20 Reply Affidavits?

21 A. I did, thank you.

22 280. Q. Okay. And so I'm going to take you to
23 paragraph 24 of his Reply Affidavit.

24 A. Could it be displayed on the screen so we're
25 all on the same page?

1 281. Q. Sure. I think that's one of my problems is
2 I don't have Carly Benjamin on here yet. Can we take
3 five minutes, please? Can we go off Record so I can get
4 that setup? Sorry.

5 (OFF RECORD DISCUSSIONS)

6 BY MR. SWINWOOD:

7 282. Q. Again, I apologize for the delay. So Dr.
8 Hodge, we're looking at paragraph 24 and Professor Allen
9 is referring to Exhibit N from your Affidavit. And he's
10 taken an excerpt from Exhibit N and we're talking about
11 excess mortality here. Professor Allen is saying that -
12 - you're referring to our -- for all cause mortality.
13 And suggests that Exhibit N suggests otherwise. It's
14 encased in the quote from Exhibit N. Can you read that,
15 Dr. Hodge?

16 A. Yes.

17 283. Q. Okay. And specifically,
18 "As these shifts imply an increase in deaths not
19 directly caused by Covid-19, it is important to
20 note that some deaths may be due to the indirect
21 consequences of the pandemic which could include
22 increases in mortality due to overdoses."

23 Do you find that to be a fair statement, Dr. Hodge?

24 A. I think it's entirely consistent with what I
25 stated in my Affidavit. So I'm not sure where you're

1 going, but it says very clearly about Statistics Canada
2 and looks at the specific reasons for the increase in
3 deaths will likely require further analysis.

4 284. Q. So from your perspective, this would require
5 further analysis?

6 A. Oh, I think that's very clear in the
7 Affidavit.

8 285. Q. Yeah. And the conclusion in Exhibit N is
9 that,

10 "This could be an early indication of the
11 indirect impacts of the pandemic in advance of
12 the period when excess mortality started to
13 trend among younger age groups."

14 And is that what you're referring to is what would need
15 to be further researched?

16 A. Yeah, I think that's the Statistics Canada
17 position and that's entirely consistent with the data
18 they reported in the exhibit.

19 286. Q. And given that we're some 15, going on 16
20 months into this issue, the pandemic, we have a lot of
21 data now that can be looked at. Is that a fair
22 statement?

23 A. It depends what the question is, sir.

24 287. Q. Well just straight up data. Straight up
25 data in relation to Covid-19 mortality rates, cases,

1 that kind of thing, Dr. Hodge.

2 A. I don't have a measure for whether we have
3 enough, too much, not enough. I think it's clear that
4 we have an accumulated experience and as your expert
5 notes here, there's been an increase, for example, in
6 overdose deaths in Alberta. I think if you
7 contextualize that with the increase in deaths that's
8 attributed to Covid, you'd see there's at least an order
9 of magnitude difference. So part of the challenge for a
10 public health practice is that we have to choose among a
11 series of least worst alternatives.

12 288. Q. Over on the next page, if we go into
13 paragraph 25 and then over into the next page, we have a
14 figure one, "Excess deaths in Canada over 2020." And
15 Professor Allen makes this statement. He says,

16 "The excess deaths that Dr. Hodge refers to then
17 in the fall of 2020 are not evidence of how
18 lethal the virus was, but rather they are
19 evidence of how lethal lockdown restrictions
20 were."

21 Do you agree with that, Dr. Hodge?

22 A. The expert's opinion is his and he's
23 entitled to it. I don't think we have enough
24 information to have a clear absolute truth about this.

25 289. Q. Well let's look at the graph. Let's look at

1 figure one, "Excess deaths in Canada over 2020." The --
2 -

3 A. Could you expand it a little bit so we can -
4 - I can't read the legend, I'm afraid.

5 290. Q. Okay. You mean the legend at the bottom?

6 A. Yeah, so I can understand which line is
7 which.

8 291. Q. Okay. So the blue line is adjusted number
9 of deaths. The light blue line is expected number of
10 deaths. The red line is -- the lower red line is 95
11 percent prediction interval of ---

12 A. Yes, thank you. I can read it now.

13 292. Q. I'm sorry?

14 A. I can read it now. So I ---

15 293. Q. Okay, perfect. Perfect. So this graph
16 would tend to indicate that what Professor Allen is
17 saying has merit.

18 A. Can you be more specific about what
19 Professor Allen is saying?

20 294. Q. He's saying that,

21 "The excess deaths in the fall of 2020 are not
22 evidence of how lethal the virus was, but rather
23 they are evidence of how lethal lockdown
24 restrictions were."

25 That's the proposition.

1 A. That's your expert's opinion. I think
2 what's clear here is if this is all coded as mortality,
3 we just don't know. We have not attributed any of these
4 deaths to Covid or to whatever causes Dr. Allen believes
5 are the mechanism by which lockdown causes deaths.
6 What's quite clear is that if we were to plot the number
7 of cases and hospitalizations for Covid, they track the
8 increase in mortality seen in the second half of 2020.

9 295. Q. I'd like to take you now to ---

10 A. I think I would also add that if you were to
11 put the timing of the restrictions on this, it would be
12 difficult to identify a clear relationship such as is
13 proposed by your experts. So if your expert is of this
14 opinion, then I would expect to see more data to support
15 that.

16 296. Q. Well you have the opportunity as one who is
17 advising the Province of Ontario in relation to these
18 issues. Would it not behoove you to have done studies
19 in relation to this yourself?

20 A. I want to thank you for vastly
21 overestimating my influence. As I indicated to you in
22 my initial Cross-Examination, I'm a consultant retained
23 exclusively for the purpose of assisting the Government
24 with actions arising from the pandemic response.

25 297. Q. And when you say actions, you mean legal

1 actions?

2 A. That's correct.

3 298. Q. Right. And so within the framework of that,
4 do you not think it behooves you to do this kind of
5 research to determine the proposition that I put to you
6 about Professor Allen that the excess deaths could be in
7 relation to the lockdowns specifically?

8 A. Actually, I don't, sir and I'll tell you
9 why. Because this is a public health emergency.
10 There's a limited number of hours in the day. And
11 Ontario's death reporting system will not allow a
12 definitive answer to this question until probably nine
13 to twelve months after the deaths that are in question.
14 So it would be a waste of my time and a waste of public
15 resources for me to attempt an analysis that's
16 impossible to complete. Dr. Allen appears to have far
17 more confidence in his opinion, but I don't see any
18 indication that restrictions are mapped against deaths
19 in the analysis that he provided.

20 299. Q. Well we'll come to that.

21 A. But it's incumbent upon your expert to at
22 least provide me something to respond to because
23 Ontario's death reporting system does not enable me to
24 complete the analysis you're proposing.

25 300. Q. Well we'll come to that. We'll come to

1 those statistics later on here. For the moment, we'll
2 just leave this. And now what I'd like to do is go to
3 Dr. Kettner's Reply Affidavit, May 17th, 2021. So if we
4 could go to that, please, Carly? And go to the attached
5 Reply. Okay, this is good. Right there. I'm going to
6 -- I just want to read you the statement at the top, Dr.
7 Hodge and then ask -- ask you for your opinion.

8 "To meet the expectations of good public
9 health's strategic practice and to comply with
10 Ontario Emergency Management and Civil
11 Protection Act and to comply with the Canadian
12 Charter of Rights and Freedoms, public health
13 officials and their governments are required to
14 show that the severity of a threat has justified
15 the use of restrictive interventions. How the
16 effectiveness and benefits of the interventions
17 will sufficiently outweigh the harms and that
18 there are no alternative strategies that would
19 be more effective, less harmful, and or less
20 restrictive."

21 So on the first part of that statement, do you agree
22 with Dr. Hodge [sic] that this is what public health
23 officials and governments are required to do? The first
24 part, which is comply with Ontario Emergency Management
25 and Civil Protection Act and to comply with the Canadian

1 Charter of Rights?

2 A. So I think it's important to distinguish
3 between the intent of actions by governments and whether
4 they are deemed to be in compliance with the law.
5 Certainly all governments seek to comply with the law.
6 It's the job of the courts to determine if they have
7 overstepped the authorities and those laws. That's not
8 an area of my expertise. I also note that Dr. Kettner
9 has been somewhat incomplete and perhaps he's unfamiliar
10 with Ontario's legislative framework, but Ontario has
11 actually enacted specific language in several pieces of
12 relevant legislation that refers to the precautionary
13 principle. And in fact, the precautionary principle is
14 as or more relevant as Dr. Kettner's somewhat academic
15 discourse here.

16 301. Q. Well really, specifically, my question is,
17 do you think that compliance with the Canadian Charter
18 of Rights and Freedoms is an important evaluation in
19 identifying measures?

20 A. I do, but ---

21 MR. RYAN: Mr. Swinwood, Dr. Hodge is not here
22 to opine on questions of law and his evidence would be
23 inadmissible if he did. So I'm not really sure this is
24 something that the Court needs his assistance on.

25 MR. SWINWOOD: I'm not asking him for his

1 opinion in law, Counsel. I'm simply asking him if the
2 statement that is made by Dr. Kettner holds validity in
3 relation to the balancing. That's all. Just ---

4 THE WITNESS: And I think I made it quite clear.
5 It's incomplete.

6 BY MR. SWINWOOD:

7 302. Q. Okay. The second statement is that,
8 "Public health officials and governments are
9 required to show that the severity of a threat
10 has justified the use of restrictive
11 interventions."

12 Do you agree with that proposition?

13 A. I think I would defer to Counsel's point
14 about I don't have the expertise. Require has many
15 meanings. If you want to spend our time together this
16 morning wordsmithing my beliefs about an area where I
17 have no expertise, that's your choice, but I don't think
18 that's the best use of our time.

19 303. Q. Well, Dr. Hodge, I'm not asking you for
20 that. What I'm saying to you is that, is there merit in
21 suggesting that health officials, such as yourself and
22 governments, are required to show the severity of a
23 threat that has justified the use of restrictive
24 interventions. Simple.

25 MR. RYAN: Sir, you're asking him a legal

1 question. The paragraph refers to a requirement of a
2 statute and of the Canadian Charter of Rights and
3 Freedoms. You are asking him his opinion on the content
4 of those legal documents. I do not think that is
5 admissible or relevant in this proceeding.

6 BY MR. SWINWOOD:

7 304. Q. Okay. And I'll say it again. I'm not
8 asking him about that. I'm not asking him for his
9 opinion in relation to law. I'm asking him about the
10 severity of a threat justifying restrictive
11 interventions. Is that an important evaluation by
12 someone like you who is a public health official? Is
13 that important, that evaluation?

14 A. I'm not familiar with Manitoba, but I'll say
15 in Ontario that the public health officials provide
16 advice to governments and governments make decisions.
17 And those decisions reasonably include assessing the
18 severity of threats and the restrictiveness of
19 interventions.

20 305. Q. Thank you. So you agree with that. That's
21 all I needed to know. And the next proposition is,
22 "The effectiveness and benefits of the
23 interventions will sufficiently outweigh the
24 harms."

25 Again, do you see that as being a proper evaluation?

1 A. I see that as being a useful criteria. I do
2 not move in the circles at which these balancing, if we
3 use that language, decisions are made. And as you can
4 appreciate I hope, the government gathers advice from
5 many parties including public health officials, economic
6 officials, small business owners. The government then
7 makes decisions. So Dr. Kettner's somewhat academic
8 sterile description of the policy making process does
9 not describe what we've been through in Ontario. So I'm
10 happy to have an academic conversation with you, but as
11 I say, I don't participate in those conversations.

12 306. Q. Now at some point -- I'm sorry. At some
13 moment in time, you were advising Peel Health Regional
14 in relation to these matters. And I would take it that
15 in that role, that you might have engaged in these kinds
16 of evaluations. Is that not a fair statement?

17 A. In my role in Peel, I provided advice about
18 how to balance the impacts of interventions both
19 desirable and undesirable, yes.

20 307. Q. Yes. And what about the idea of alternative
21 strategies? That would be more effective, less harmful
22 and less restrictive. What about that aspect of things?

23 A. Well it's a lovely idea. I think that part
24 of the challenge with our Covid response has been, we
25 can sit here today comfortable in the knowledge that we

1 know a lot more than we did a year ago when some of the
2 decisions were made that may be at issue in this matter.
3 One of the challenges is identifying alternatives that
4 meet the requirement or -- that have some evidence of
5 effectiveness. Governments have shown a distinct
6 discomfort with experimenting during a time of crisis.

7 308. Q. And we have discussed this, you and I
8 previously, about the alternative therapy such as
9 Vitamin D, Hydroxychloroquine and Ivermectin. These
10 would be alternative strategies that would be offered up
11 here and ---

12 A. I did not see any references to those
13 strategies in Dr. Kettner's reply Affidavit. If it is
14 your opinion that those are alternatives, I encourage
15 you to engage with the elected officials and provide
16 them with the evidence that they would be effective.

17 309. Q. Well, you're a medical doctor and you work
18 out of Scarborough Emergency and you've treated Covid
19 patients. What is your view of the alternative remedies
20 and therapies that are available to those with Covid?

21 A. I think it might be helpful, sir, if we can
22 understand that a public health physician is providing
23 advice regarding an entire population. And sad as it
24 is, and perhaps you have some magic bullet of which
25 we're all unaware, we have no system for directing or

1 requiring an entire population of 14 and a half million
2 people to take an unproven medicine to protect them from
3 Covid. So I think you -- my time is yours. We can talk
4 more about individual patients, but the matters at issue
5 in this -- with regard to my expertise with respect to
6 your client's concerns are about public health measures
7 which apply to an entire population. So I leave it with
8 you how you wish to proceed.

9 310. Q. Again, it's a straight forward matter.
10 There are alternative therapies that are advanced by
11 many, along the lines of what I've identified to you,
12 the three matters -- or the three therapies ---

13 A. Yeah, and I can direct you back to our
14 conversation last week and I encouraged you and your
15 client to produce evidence that would meet the standard
16 for regulatory approval and I did not receive any and I
17 am unaware of any.

18 311. Q. Okay. Well come back to that for sure.

19 A. Sure.

20 312. Q. There's on page, the next page, "Public
21 Health Strategy making decisions and taking action." At
22 the very bottom of it he says,

23 "Based on the best available data and evidence
24 which is essential, in addition, critical
25 thinking and equity considerations are also

1 essential for optimal decision making.”

2 Do you agree with that, sir?

3 A. I think that equity is critically important.
4 I think that virtually everyone in the room will have a
5 different definition of what equity is. And so your
6 expert chose not to specify that. I’m unable to comment
7 directly on what his notion of equity is.

8 313. Q. What’s your notion of equity?

9 A. I think that it depends on the question.

10 314. Q. Well let’s talk about the equity
11 considerations in the pandemic called Covid-19.

12 A. Well I think one of the important
13 considerations was how can measures be taken that
14 protect those who are most vulnerable to infection,
15 severe consequences of Covid infection and death? We
16 can have a lengthy conversation about the degree to
17 which the Government of Ontario was successful in that
18 regard.

19 315. Q. Well one of the things that he says in the
20 next paragraph is,

21 “Even when one specific disease becomes the
22 focus of attention, decision makers and advisors
23 must consider the morbidity and mortality from
24 all diseases and injuries, especially when
25 interventions for one disease may increase the

1 rates of severity of other conditions.”

2 Do you agree with that statement?

3 A. I would go -- I agree with the sentiment. I
4 would choose different language. Dr. Kettner's musts
5 are statement of opinion rather than scientific fact.

6 316. Q. Well I just want to know, does it make sense
7 to say that the morbidity and mortality from all
8 diseases and injuries be taken into account?

9 A. It does, but I would ask -- I didn't see Dr.
10 Kettner's data that would provide that. I mean, part of
11 the challenge, as I've said repeatedly, and I'll say
12 again, is that decisions during the time of Covid and in
13 fact in public health practice in general are often made
14 under conditions of uncertainty and incomplete
15 information. So I would love to be an academic and be
16 able to tell you what we should have done in 2005 or
17 2010 because we now have complete data, reasonably
18 complete data for those time periods. But it's much
19 more challenging to be making decisions in the moment.

20 317. Q. I want to take you then over to under the
21 section, "Dr. Hodge's overview and preliminary
22 observation." There. And then go over to the next
23 page, please, to the paragraph, "Taken literally..."
24 Thank you. There we go. In that second paragraph, in
25 the second sentence he says,

1 “The job of the public health scientist is the
2 estimate the effect size of an intervention, its
3 benefits and harms, its costs, and its
4 fairness.”

5 Do you agree with that statement, Dr. Hodge?

6 A. It’s Dr. Kettner’s opinion and he’s entitled
7 to it.

8 318. Q. No, I’m asking you if you agree with that
9 statement?

10 A. I don’t know what a public health scientist
11 is, sir. So if perhaps your expert would define that, I
12 could have a more useful conversation.

13 319. Q. Okay. The public health scientist is
14 somebody who is a scientist who works with public health
15 and is advising the government in relation to what is
16 considered to be a crisis. And in that role that you
17 somewhat touch on by virtue of your own expertise, does
18 this statement accord with what you know to be the
19 manner in which the government should be advised?

20 A. I think governments take advice from many
21 places. The public health scientist’s job definition in
22 Ontario, and perhaps your expert was unaware of this not
23 being familiar with Ontario is actually a career
24 position at Public Health Ontario and those individuals
25 typically publish academic studies which are thought to

1 be adding to the knowledge base that can inform practice
2 and policy. So in Ontario, the job of a public health
3 science is not as your expert proposes.

4 320. Q. So ---

5 A. And absent to reference, I don't think
6 there's any global definition or even a Pan-Canadian
7 definition of what the job of a public health scientist
8 is.

9 321. Q. Well let's just deal with the premise
10 itself,

11 "...estimate the effect, the size of an
12 intervention, its benefits and harm, its cost
13 and its fairness."

14 Does that proposition, does that corollary make sense to
15 you?

16 A. I think that all of those things are
17 valuable inputs when governments ask for advice.
18 Whether they choose to follow them or not is their
19 decision.

20 322. Q. Of course, but you agree that it has
21 application in giving advice to the government on the
22 measures to be taken?

23 A. Yes.

24 323. Q. Thank you. Now next paragraph. When he's
25 referring to the reference that you made in your

1 Affidavit about high burden and he's talking about it
2 here and saying that,

3 "Infectious disease epidemics in which measures
4 that restrict rights and freedoms were neither
5 considered necessary nor appropriate in
6 influenza, a respiratory infection transmitted
7 in a similar way to Covid-19 has resulted in
8 more deaths in children and healthy young adults
9 than Covid-19."

10 Do you agree with that sentiment?

11 A. Your expert provides no data. So I would
12 not be able to agree or disagree.

13 324. Q. Okay. Well we'll come to the data on that.
14 We'll suspend your answer on that and when we come to
15 the data, we'll deal with it.

16 "Despite annual occurrences, some with more
17 burden than others, it is not been deemed
18 generally appropriate to close schools,
19 churches, restaurants, recreation centres, or
20 other settings. The reasons for restraint from
21 implementing more restrictive public health
22 measures are the lack of evidence of
23 effectiveness and the public health ethic and
24 laws which require a proportionality of
25 response."

1 Do you agree with that statement, Dr. Hodge?

2 A. It's Dr. Kettner's opinion. I think it's
3 one perspective. I think one could make an equal
4 argument that the reasons for restraint are that
5 influenza primarily kills the elderly and we just don't
6 care. So I'm happy to have you read me Dr. Kettner's
7 opinions, but there's no evidentiary support to use your
8 framework for my Affidavit in regard to these
9 statements. These are matters of philosophy or
10 ideology.

11 325. Q. Well they're not philosophy or ideology,
12 they're straightforward what's been happening on the
13 ground. They're straightforward what's been done here.
14 It's a complete repetition of what has happened since
15 the declaration of a crisis. This is exactly what's
16 happened.

17 A. The matters to which you're referring are
18 actually describing Influenza if I understood your
19 expert's perspective.

20 326. Q. Well he's casting a light on the idea of
21 Influenza and what happens annually with the flu and
22 that there's no necessity to do all these restrictions
23 is basically what he's saying.

24 A. Well that's -- as I said, that's his
25 opinion. The data would indicate the death rate from

1 Influenza is approximately 20 percent of the death rate
2 from Covid. The hospitalization rate for persons in
3 younger age groups is much higher for Covid and the
4 transmissibility of Covid appears to be on a par with
5 Influenza. So if Covid and Influenza are equally
6 transmissible and Covid causes many more
7 hospitalizations and five times more deaths, then by the
8 burden model, I would stand by my statement; it's
9 generally appropriate to have more restrictive measures
10 for Covid-19 than we do for Influenza. I would also add
11 that when these measures were put in place, we had no
12 effective vaccines against Covid-19. We have an
13 effective vaccine against Influenza. The public chooses
14 not to take it by and large, but where it's used, it can
15 prevent severe illness. So if we were to be making
16 decisions today, we would likely make them differently
17 in the context of vaccine availability and I think
18 without having inside knowledge, the Government of
19 Ontario that it will be making a different set of
20 decisions actually driven by the population coverage of
21 an effective vaccine.

22 327. Q. If I take you over to the next page. Yes,
23 "What are the harms?" thank you. It makes a statement
24 in the second paragraph.

25 "A risk assessment takes into account several

1 factors such as the probability of
2 infectiousness and the source, the duration,
3 distance, nature of exposure, and the presence
4 of barriers to respiratory droplets or droplet
5 nuclei.”

6 And his suggestion is that there's no risk assessment
7 that has been provided in relation to these issues in
8 your Affidavit. And I'm asking you, what do you take of
9 his statement in this regard?

10 A. I think if he's looking for a formal risk
11 assessment, he's correct. The Affidavit was not written
12 with a view that being a scientific or journal
13 publication. And I think you can find in paragraphs 24
14 through 27, a number of the elements that he describes,
15 how the infection -- probability of infection assists in
16 the source. The language in the Affidavit refers to the
17 level of infection in the community. We make reference
18 to features of restaurant dining experience that affect
19 duration, distance, nature of exposure, and presence of
20 barriers. So I'm not sure why he didn't acknowledge
21 that, but I can appreciate that perhaps it was not in a
22 language of which he's familiar.

23 328. Q. Well it -- he looks to me to be fairly
24 familiar with the language of public health measures.
25 You keep making this reference to the idea that he's not

1 from the Province of Ontario. Do you view that as being
2 therefore he doesn't know what he's talking about in
3 terms of public health?

4 A. No, I think Dr. Kettner has the advantage of
5 having a long career involving a number of roles. My
6 understanding is his current role is in an academic
7 institution and academics, as you may know, have the
8 benefit of -- they tell people how to practice, they're
9 not responsible for practice. I was struck by how Dr.
10 Kettner did not appear to be familiar with or at least
11 acknowledge the role of a precautionary principle in
12 Ontario's legislative framework for public health
13 action. And so that raises for me a question, perhaps
14 similar to the questions you're asking me about, "Does
15 he know what he's talking about?" Manitoba and Ontario
16 have different legislative frameworks for public health
17 action and unfortunately Manitoba, right now, has the
18 distinction for having probably the highest rate of
19 Covid in North America. So that's unfortunate for the
20 Manitobans, but I imagine Dr. Kettner and others are
21 giving advice to government there.

22 329. Q. You're not really suggesting that that's
23 linked to Dr. Kettner's experience as a public health
24 medical officer, are you?

25 A. I don't know. I know that there were

1 circumstances under which he was the Chief Medical
2 Officer of Health and then was no longer in that role.
3 I understand he's now an academic and that gives him the
4 freedom to make assertions about what should or
5 shouldn't be done. I go back to my original point which
6 is the elements of a risk assessment which he identifies
7 in the document we're reviewing are present in my
8 Affidavit.

9 330. Q. One of the statements he makes is that
10 "Ontario is not provided valid estimates of the
11 ratio of cases to actual infections."

12 Do you have any such statistics?

13 A. Could you point me to that, please?

14 331. Q. Yes, it's at the bottom under A. "What are
15 the harms caused by Covid-19?" Yes. It's the paragraphs
16 beginning, "Using the data table below."

17 A. So I think that, you know, you've -- you and
18 your expert have both identified one of the really
19 missing elements when it comes to Covid. I think we
20 would all love to have estimates of this ration. The
21 science table, which in Ontario functions as the --
22 perhaps the body with the greatest expertise in these
23 matters, in one of their publications did note that the
24 ratio was probably ten to one in the first phase. So
25 actual infections was tenfold higher than the caseload

1 and that by the fall of 2020, that had dropped to an
2 estimate of three to one based on the increase in
3 testing. More recently, we've seen decreases in
4 testing. So I would defer to the science table to
5 update that ratio.

6 332. Q. Well he's offering up two graphs here. The
7 first one is age group cases as you see there. And it
8 continues over onto the next page, I believe. No, go
9 back, please, Carly. So yeah, there is the -- there's
10 the graph. There's one before that. Okay, that's good.
11 No, Carly, just go back. Go back to the graph that we
12 had. Yeah, there you go. Thank you. And then below in
13 the paragraph, Dr. Hodge refers to variants of concern.
14 He says,

15 "He's unable to find any data on this dashboard
16 pertaining to hospitalization and ICU admission
17 rates of people in their 40s and 50s."

18 Are there any statistics in that regard that you're
19 aware of, Dr. Hodge?

20 A. Sure. If you go to the science table's
21 website, the March 29th report makes -- they state that
22 hospitalizations are 63 percent higher and I believe ICU
23 admissions 103 percent higher. So I apologize if the
24 footnoting did not meet Dr. Kettner's academic
25 standards, but the science table data are all publically

1 there and it's easily accessed.

2 333. Q. Do you have the science table data in your
3 Affidavit?

4 A. I have a reference to the science table so
5 that the reader can explore the multiple sources of --
6 or multiple reports that are available there. And that
7 is Exhibit H.

8 334. Q. But can you point to what you just said
9 about the increase, percentage increases that you just
10 identified? Where would we find that?

11 A. So if you go to the -- do you want to do it
12 online now? We can look at it together.

13 335. Q. Sure, that would be great.

14 A. So if you're colleague can go to the science
15 table website?

16 336. Q. Well let's just suspend that for now. We'll
17 come back to that because we're just going to get bogged
18 down in doing that. Let me just put to you ---

19 A. Well it seems it's kind of germane to our
20 conversation because Dr. Kettner was unable to find the
21 information and I apologize that the footnote did not
22 lead him in the academic mode to the right place. But -
23 --

24 337. Q. What I mean is on the break, we'll find
25 that. We'll find it on the break and we'll come back to

1 it. He makes the statement that, "Hospitalization
2 occupancy has been decreasing for the past month." That
3 would be in the month of May. And then he says, "ICU
4 occupancy has been decreasing for the past two weeks."
5 And again, that would be in the month of May.

6 A. I'm sorry, can you go down a ---

7 338. Q. That's just below the graph in the sentence,
8 "Dr. Hodge refers to variants of concern."

9 A. So I don't see the reference of two weeks.
10 I would refer to the data in paragraph 11 of my
11 Affidavit.

12 "Intensive care numbers reached a high of 820 on
13 April 26th and have declined slightly to 818 on
14 May the 5th."

15 Is Dr. Kettner disagreeing with those numbers?

16 339. Q. Well he's basically saying what you just
17 said which they're decreasing.

18 A. So in public health practice, a change from
19 820 to 818 would be considered within the range of
20 random variation and so would not be the basis for
21 asserting that there's been a decrease. With the
22 advantage of hindsight, we're now June 2nd. I will
23 absolutely agree the intensive care count is higher --
24 sorry, lower today than it was on May the 5th. But Covid
25 moves quickly.

1 340. Q. He makes a statement on page 11 which is
2 continuing on -- there we go. No, sorry, it says at the
3 top 11 of 14. I'm sorry. No, okay. So you've got to
4 go back. Just beyond the graph and just beyond the
5 paragraph we were talking about Carly.

6 A. If you could use the number on the left to
7 help us all stay oriented.

8 341. Q. Thank you. Sorry, what do you mean by that,
9 on the left?

10 A. Well on the left she has 11 to 14 which
11 makes reference to paragraphs in my Affidavit.

12 342. Q. Yeah.

13 A. There's two different page numbering
14 systems, so.

15 343. Q. Yes, correct. So find the paragraph -- yes,
16 "Dr. Hodge asserted correctly..." There we go. In the
17 paragraph that begins, "Furthermore..." He makes a
18 statement at the bottom of that,

19 "Unless there is a clear reason otherwise, most
20 hospitalized patients or death with a positive
21 PCR test result are classified as Covid cases."

22 Is that a correct statement?

23 A. Yes, that is.

24 344. Q. And when we have a situation of let's say is
25 hospitalized and has a heart condition or other severe

1 health problems, is their death reported as a Covid
2 death if they have a PCR test that's positive?

3 A. I mean, I think they also have to have
4 evidence of Covid infection, clinical evidence of Covid
5 infection. So -- and as you may be aware, Covid has
6 unfortunately made worse some preexisting health
7 conditions. So somebody with heart disease and without
8 Covid would not have required hospitalization, but they
9 get a Covid infection, they become short of breath from
10 the Covid, their heart is unable to keep up and their in
11 hospital with heart disease and a Covid infection.

12 345. Q. I'll take you over to see what are the risk
13 factors for Covid-19 transmission. Yes, thank you. And
14 under paragraph 21, it talks about the prevalence of
15 infectiousness and he makes this statement.

16 "Dr. Hodge's statement that even low risk
17 activities can pose significant transmission
18 risks is inconsistent with case and contact
19 tracing strategies of Public Health Ontario.
20 Only high risk exposures are traced."

21 Do you agree with that statement?

22 A. Dr. Kettner is playing games here. Let's go
23 to the Affidavit and read the entire sentence. It
24 actually says,

25 "When community prevalence is elevated, even

1 lower risk activities can pose significant
2 transmission risks and can tribute to pressures
3 on hospital and ICU capacity.”

4 I did not say, and I think we would agree if we look at
5 the Affidavit, low risk. The Affidavit specifically
6 says lower risk. And there's a reason for that because
7 as community prevalence reaches that threshold point
8 where the health system is going to go off a cliff, the
9 goal becomes safeguarding the health system. So
10 reducing any Covid infection or preventing any Covid
11 infection that's going to drive the hospital numbers up
12 becomes an imperative for government.

13 346. Q. Your paragraph 21 is under, “See, what are
14 the risk factors for Covid-19 transmission.” That's the
15 paragraph you're referring to, correct?

16 A. Yes.

17 347. Q. Yeah. I just want to point out that there
18 seems to be a numbering problem after 22 in that after
19 paragraph 22, it goes to paragraph 19. Is that what you
20 have in your Affidavit?

21 A. No, that's the 19 in Covid-19, sir. If you
22 look at the previous line, there's a hyphen after Covid.

23 348. Q. Oh, I see. I'm sorry. But then it goes 22
24 and then it goes 20, paragraph 20.

25 A. That does seem to be a numbering error

1 because the 19 was detected by you and Microsoft Word,
2 but was referring to Covid.

3 349. Q. Yeah, but the bottom line is, is that there
4 is just a bit of a numbering problem after 22. 20
5 should be 23, correct?

6 A. Yes, I ---

7 350. Q. Yeah, okay that's fine. I just wanted to be
8 sure that that was the way that was. That will do for
9 that. And I'd like to go to now, the WHO document. I
10 believe it's at number 38. Yes, and this is -- this is
11 the World Health Organization's document entitled,

12 "Non-pharmaceutical public health measures for
13 mitigating the risk and impact of epidemic and
14 pandemic influenza."

15 Have you ever seen that document before, Dr. Hodge?

16 A. No.

17 351. Q. You're not familiar with it?

18 A. I mean, I know that it exists because there
19 was a large effort around pandemic planning, but I'm not
20 familiar with the details of this particular version.

21 352. Q. All right. Can we go to page 2, please,
22 Carly? Is it possible for it to be -- there, thank you.
23 Now, what they're talking about here are NPIs. Are you
24 familiar with what NPI means?

25 A. Yes.

1 353. Q. And what does it mean?

2 A. Non-pharmacologic interventions.

3 354. Q. Right. And this paragraph,

4 "The evidence base for the guidelines included
5 systemic reviews of 18 NPIs covering personal
6 protective measures, hand hygiene, respiratory
7 adequate and face masks, environmental measures,
8 social distancing, and travel related measures."

9 So they're basically saying that this -- these are the
10 areas that they have covered off in this document. And
11 of course, you haven't seen that, have you? And
12 basically this is a statement that they make in the
13 second paragraph.

14 "The evidence based on the effectiveness of NPIs
15 in community settings is limited and the overall
16 quality of evidence was very low for most
17 interventions."

18 Do you see that?

19 A. Yeah.

20 355. Q. And so their basic point is, is that on all
21 of these issues that they've identified above, the
22 evidence is low in relation to implementing those
23 interventions. Do you agree with that?

24 A. With respect to influenza transmission, yes.

25 356. Q. Okay.

1 A. I hope we both agree that Influenza and
2 Covid-19 are not the same thing.

3 357. Q. Well we go on to say that,
4 "Small effect on Influenza transmission,
5 although higher compliance in a severe pandemic
6 might improve effectiveness, however there are
7 few RCTs for other NPIs and much of the evidence
8 base is from observational studies and computer
9 simulations."

10 And he's talking about the -- they're talking about the
11 pandemic there.

12 A. No, sir, they're talking about Influenza.
13 It's a virus that's different from Covid-19. In the
14 same way that the Malaria parasite is different from
15 Hookworm. So if you're asking me to agree whether this
16 applies to Covid-19, I would say that this was part of
17 the context where people thought through what to do
18 about Covid-19, but with a five times higher death rate
19 than Influenza and a different pattern of transmission.
20 I'm happy to talk about Influenza, but I don't believe
21 that's at issue in this matter.

22 358. Q. Well they're talking about higher compliance
23 in a severe pandemic.

24 A. Of Influenza?

25 359. Q. No, they're talking about a pandemic.

1 A. I think you're mistaken, sir. If you go to
2 the title of the document, it's actually the, "Pandemic
3 Influenza." So a pandemic requires an organism and it
4 requires global spread. Depending on the organism,
5 there will be a different experience of the pandemic.
6 So I don't mean to be insulting, but we can talk about
7 apples here, but we're actually having a strawberry
8 pandemic if I can use an analogy.

9 360. Q. Well in essence, what we're talking about is
10 the guidelines that the WHO has set out in relation to
11 Influenza and they're discussing pandemic.

12 A. So maybe it's helpful for me to try and
13 reframe this then. Much of the planning for -- that
14 went into this document and others was driven by the
15 H1N1 Influenza strain in 2008 to 2010. So that was a
16 strain of Influenza that caused illness in multiple
17 countries and met the definition of a pandemic, multiple
18 countries. These measures may apply to Covid-19, but we
19 are currently in a Covid-19 pandemic. We are not in an
20 Influenza pandemic.

21 361. Q. But you'll agree with me that these
22 guidelines may apply to a Covid-19 pandemic?

23 A. I think I would say that when the Covid-19
24 pandemic arose, public health decision makers and
25 governments looked for anything that would help narrow

1 the uncertainty to make sense of this unknown organism.
2 And the analogies with Influenza were wide-spread. So
3 I'm not surprised that this document and others may have
4 influenced people's decision making or thinking.

5 362. Q. All right. Go to page 4. The -- there's a
6 statement that there is insufficient evidence --

7 "Insufficient scientific evidence from RTCs to
8 support the efficacy of hand hygiene alone to
9 reduce Influenza transmission in Influenza
10 epidemics and pandemics."

11 Do you agree with that?

12 A. As I said, I'm happy to have a conversation
13 about Influenza. Covid-19 is a different bug.

14 363. Q. Well ---

15 A. I think the other thing that's important to
16 bear in mind is that perhaps you can appreciate or maybe
17 you're an unusual citizen, people don't want to sign up
18 for a randomized controlled trial where they're told to
19 not to wash their hands because they have to be told
20 that it may reduce their risk of a viral illness. So
21 there's insufficient scientific evidence from RCTs
22 because in many cases, they're impossible to do. Do
23 you agree with my -- you appreciate where I'm going with
24 this? I just want to make clear that we can't do RCTs
25 because we have human subject research guidelines, we

1 have respect for autonomy, and we also would have to
2 have funding to do such a study.

3 364. Q. They also indicate that there is little
4 evidence for effectiveness of masks being used during
5 Influenza epidemics and pandemics.

6 A. So there's relatively little evidence of
7 condoms being effective during Influenza epidemics
8 because we use condoms for a different infection.
9 Covid-19 and Influenza are different infections.

10 365. Q. The -- are you suggesting, sir, that what is
11 being suggested here by the WHO are not applicable at
12 all to the situation of Covid-19?

13 A. No, I think I've made very clear that Covid-
14 19 was brand new, it was unknown, it behaved differently
15 from Influenza and people looked to the Influenza
16 evidence to at least provide some direction or frame for
17 thinking about how to respond to this novel virus.

18 366. Q. If we go to page 10? Are you familiar with
19 the International Health Regulations of the ---

20 A. Yes, I am.

21 367. Q. Yeah. And,
22 "The International Health Regulations set out
23 obligations and mechanisms for a public health
24 response to the international spread of disease
25 in ways that are commensurate with and

1 restricted to public health risks and which
2 avoid unnecessary interference with
3 international traffic and trade and to
4 strengthen the preparedness and capacities of
5 countries so they can proactively detect,
6 assess, report, and address acute public health
7 threats early.”

8 So would you agree with me that these are applicable to
9 Covid-19?

10 A. For countries that are in compliance with
11 the IHR, yes.

12 368. Q. Yeah, okay. And in the next paragraph they
13 say,

14 “The IHR seeks to balance the sovereignty of
15 individual state parties with the common good of
16 the international community.”

17 It then goes on to say that,

18 “Governments are entitled to implement public
19 health measures to protect the health of their
20 populations during public health events
21 respecting three golden rules which are that
22 such measures must be based on scientific
23 principles, respect of human rights, and not be
24 more onerous or intrusive than reasonably
25 available alternatives.”

1 Do you agree with that statement, Dr. Hodge?

2 A. This is a statement in the IHR, yes.

3 369. Q. Okay. But earlier when I was asking you
4 about -- Dr. Kettner made the exact same point and you
5 said he was entitled to his opinion.

6 A. So the IHR represents a political consensus
7 among a group of state's parties that are signatories to
8 the IHR. All of these elements are subject to
9 interpretation and as you may know, the penalties for
10 non-compliance are essential zero. So the IHR are like
11 many international health related inter-governmental
12 agreements perhaps best understood as aspirational.

13 370. Q. Well Canada, you know, is a signatory to the
14 World Health Organization, correct?

15 A. Yes, it is.

16 371. Q. Yes, it is. And would you say that by
17 virtue of its being a signatory, that it's obliged to
18 follow the International Health Regulations?

19 A. In an ideal world, sure, yes.

20 372. Q. Next sentence in that paragraph is,
21 "When measures exceed these parameters,
22 countries are obliged to provide the public
23 health rationale to the WHO within 48 hours of
24 implementation and to rescind the measures if
25 they are deemed unjustified."

1 So that's back to the assessments that we were talking
2 about that Dr. Kettner was suggesting that needed to be
3 done. And it's reflected in this document the exact
4 same thing. Would you agree?

5 A. I think I would need to understand the
6 definition of exceed, but yes. I mean, from a personal
7 perspective, yes.

8 373. Q. Yes. And are you aware at all if there has
9 been any advice to the WHO in relation to the protocols
10 that have been undertaken in the Province of Ontario?

11 A. Well the Province of Ontario is not a state
12 party to the IHR. So that's the limit of my knowledge
13 about how Ontario's decisions would be relevant to this
14 process.

15 374. Q. Well is there not a connection between the
16 Public Health Canada and the Public Health Ontario? Do
17 they not consult each other?

18 A. I'm not aware of those processes.

19 375. Q. Okay. Well we'll come back to that also.
20 And, "1.4, pandemic Influenza severity assessment
21 framework." And it says,

22 "The severity of an Influenza epidemic or
23 pandemic is evaluated and monitored through
24 three specific indicators; transmissibility,
25 seriousness of disease, and impact on healthcare

1 system and society.”

2 So would you agree that that’s applicable to Covid-19?

3 A. Well it reflects the burden model that I
4 refer to in my Affidavit.

5 376. Q. So yes is your answer?

6 A. With respect to Influenza, there’s a
7 specific framework here. I thought Covid-19 was the
8 infection we were meeting about today. But yes, with
9 Influenza, this is -- the general model would apply to
10 Covid-19, the specific levels perhaps less so.

11 377. Q. But you would agree, the general model
12 applies to Covid-19?

13 A. I think I made that quite clear in my
14 Affidavit, sir, with respect to paragraph 7.

15 378. Q. Page 13, please. The summary of the
16 recommendations under 2, would you agree that these
17 kinds of recommendations would be applied to Covid-19?

18 A. I think I’ve made clear that Covid-19 is a
19 novel infectious illness with a much higher death rate
20 than Influenza. So when looking for measures, public
21 health decision makers looked to other respiratory
22 infections of which Influenza is one. And so a
23 combination of this type of, what we call, evidence
24 syntheses where studies are brought together and
25 simulations and modeling and the need to provide some

1 advice to governments lead to decisions that apply to
2 some of the measures that are identified here.

3 379. Q. Okay. So the first one was hand hygiene.
4 And then go to masks, face masks. And at the bottom it
5 says,

6 "Although there is no evidence that there --
7 that this is effective in reducing transmission,
8 there is mechanic plausibility for the potential
9 effectiveness of this measure."

10 And so they're basically saying that masks are really
11 not effective. Low ---

12 A. Actually, no. Perhaps you're not familiar
13 with the scientific discourse. What they're saying is
14 that there's no evidence that they are effective, but
15 equally that means there's no evidence that they are
16 ineffective. It's in that middle; we just don't know.

17 380. Q. So essentially, the measure implementing
18 masks is based on, we just don't know?

19 A. It's based on mechanistic plausibility.

20 381. Q. But you just said it's based on we just
21 don't know.

22 A. No, I was speaking analogously. Perhaps in
23 the law my understanding is in Scotland there's a notion
24 of guilty, not guilty, and not proven. So and then in
25 science, that not proven space is massively huge. We

1 use mechanistic plausibility for many public health
2 measures. For example, seatbelts. There was never a
3 randomized trial that seatbelts prevented death, but
4 there was certainly an engineering model that showed if
5 you stopped a person going head-first through a
6 windshield and smashing into a fixed object at high
7 speed, you reduce their risk of death.

8 382. Q. Page 20, please. Again, we're back to
9 personal protective measures.

10 A. And back to Influenza.

11 383. Q. Well I'm at -- we agree that this is
12 applicable to Covid-19.

13 A. No, we didn't, sir. What I said was that we
14 had an unknown virus, we had much higher death rates
15 than Influenza. We needed something that could help
16 guide interventions. That's quite different than we
17 agree that this is applicable.

18 384. Q. Well will you agree, sir, that this is being
19 used by those who are advising in relation to measures
20 that should be taken?

21 A. I think that this was one of many pieces of
22 knowledge or evidence that was used to try to implement
23 measures that would prevent infections and preventable
24 deaths.

25 385. Q. Back again to the three golden rules, the

1 three golden rules as expressed in this document, you
2 agree with me, that they're applicable to Covid-19?

3 A. Uh-hmm.

4 386. Q. Yes?

5 A. Paragraph 7 in my Affidavit, yes.

6 387. Q. Yes, okay. And I'm just going to summarize
7 what they're basically saying in these pages 20, 26 --
8 20 to 26. They're basically saying that there's no
9 statistics to suggest that hand hygiene and masks are
10 effective as a protective measure. That's what they're
11 basically saying. Do you agree with that?

12 A. No, I would frame it slightly differently.
13 If you go to the top -- the first line in paragraph --
14 section 4.1 in paragraph 3,

15 "Testing the efficacy of hand hygiene in
16 randomized controlled trials is complicated by
17 the fact the comparison groups cannot be asked
18 to stop washing their hands."

19 So as we discussed during our first meeting with respect
20 to your enthusiasm for Hydroxychloroquine and
21 Ivermectin, non-randomized studies often give us very
22 different results than randomized studies which are the
23 gold standard for definitively saying, "Yes, there is
24 evidence of benefit or yes there is evidence of no
25 benefit." And if you look at the estimates, so for

1 example the last line of summary of evidence paragraph
2 it says,

3 "In household settings, the efficacy of hand
4 hygiene with or without a face mask is not
5 significant. Relative risk 1.05, but the 95
6 percent confidence interval could be as high as
7 1.27 which would be a 27 percent risk
8 reduction."

9 Moreover we know that Covid-19 and Influenza with the
10 benefit of this 15 months of pandemic experience spread
11 differently in household settings. So the efficacy of
12 hand hygiene with respect to Covid-19 may not be a
13 relative risk of 1.05, but could be something different.
14 But those are studies that might be done albeit non-
15 randomized at some future date when we -- people look
16 back at the Covid experience.

17 388. Q. Their basic idea that they're putting across
18 in relation to this is that these personal protective
19 measures are not effective in bringing about the
20 reduction of the transmission. That's what they're
21 basically saying. And I know you're going to say about
22 Influenza. I agree with you. It's Influenza. However,
23 they're speaking to the NPIs generally that would be
24 applicable and have been applied to Covid-19. And
25 they're basically suggesting that they're not very

1 effective. Do you agree with that?

2 A. I think I would say that the evidence is
3 inconclusive because the definitive study, as I made the
4 point with respect to your expert's desires for
5 pharmacologic interventions have not been done. So if
6 you look at the RCTs -- in fact, you can read here that
7 in Egypt where they actually did laboratory confirmed
8 cases of Influenza which is a definitive outcome, they
9 had a significant reduction. The relative risk was 47
10 percent. So more than 50 percent reduction in
11 laboratory confirmed Influenza cases in the handwashing
12 group. If I could reduce Influenza cases by 50 percent,
13 I'd want to wash my hands.

14 389. Q. But their overall recommendation is that
15 they are not that effective. That's the recommendation.
16 That's what they're basically saying.

17 A. Right, but if you go back up a couple of
18 pages, you'll see that the recommendations for action
19 varied depending on the severity of the pandemic. So I
20 think if we use your approach of applying the Influenza
21 material to Covid, governments around the world have
22 looked to implement measures because of the severity of
23 the pandemic that they might not have recommended had it
24 been less severe.

25 390. Q. I'd like to take us now to document -- I'll

1 have to find it on the index here. It will be at number
2 57. Number 57 on the compendium. This, Dr. Hodge, is a
3 Statistics Canada Daily epidemiology report for May 7th,
4 2021.

5 A. Is the source on the document? I don't see
6 it.

7 391. Q. It should be. But what we'll do is we'll
8 provide that to you. We'll get that source. It's
9 comparing deaths to Influenza and Pneumonia deaths in
10 children aged zero to 19. Do you see that?

11 A. Uh-hmm.

12 392. Q. And so it would demonstrate by looking at it
13 that the Covid-19 deaths are much lower than Influenza
14 and Pneumonia.

15 A. Well I would propose to you that it's an
16 apple and oranges comparison. If you take two
17 conditions, Influenza and Pneumonia for each year, 2015
18 to 2019, surely we would wish to see Covid-19 plus
19 Pneumonia. And the graph does not present that.

20 393. Q. Well what the graph is doing is simply
21 putting forward what are the deaths in relation to
22 Influenza and Pneumonia and what are the deaths in
23 relation to Covid-19 simple and straight up.

24 A. But Pneumonia covers -- Pneumonia is a lung
25 infection that can be caused by a range of organisms.

1 So the appropriate comparison for me as a public health
2 person is what are the deaths from Influenza, what are
3 the deaths from other Pneumonias and then for 2021, what
4 are the deaths from Influenza, other Pneumonias and
5 Covid-19? So I reject the presentation of the data in
6 this way because it's misleading. And without a source,
7 I can't really comment any further because I don't know
8 if it's misleading with regard to the person who
9 prepared this figure or if Statistics Canada has an
10 explanation for why this was reported the way it is.

11 394. Q. Well I think it was reported the way it is
12 simply because they wanted to make a comparison between
13 Influenza, Pneumonia versus Covid-19.

14 A. I'm not willing to take that on faith. I
15 would need to see the source.

16 395. Q. Well, all right. We'll provide the source
17 which again, I'm saying to you is Statistics Canada, May
18 7th, 2021. And we'll get that source. If we can go to
19 58 which is figure 7? This is a definition from Health
20 Canada which states,

21 "The Covid-19 outbreak, two or more confirmed
22 cases of Covid-19 epidemiologically linked to a
23 specific setting and or location."

24 Do you agree with that?

25 A. It's a definitional statement. It's one

1 among many definitions of a Covid-19 outbreak. So why
2 don't you continue?

3 396. Q. Well do you agree with it or not? Linked to
4 a specific setting and or location.

5 A. So I think it's internally consistent. It's
6 a way of defining a Covid-19 outbreak.

7 397. Q. Do you agree ---

8 A. If you continue the definition, the things
9 that are excluded in public health practice may, in
10 fact, be functionally similar to an outbreak. So a
11 house with 21 people in it where 20 of the 21 are sick
12 with Covid is from a public health practice perspective,
13 not dissimilar from a workplace, like a restaurant where
14 two line chefs both got Covid. One got it at work from
15 another one.

16 398. Q. Can you go to Figure 8, please? This is a
17 publication from Health Canada. It's a total number of
18 Covid-19 outbreaks, cases and deaths by outbreak setting
19 in Canada as of April 24th, 2021. So you see that?

20 A. Uh-hmm.

21 399. Q. So it would appear that what we get from
22 this, again, is what we -- I think we've discussed
23 previously is that the highest number of outbreaks is in
24 long-term care and retirement residences.

25 A. Unfortunately, yes.

1 400. Q. Yes. Are long-term care residences and
2 retirement residences controlled by government?

3 A. There is by province, a degree of control or
4 funding.

5 401. Q. Province of Ontario. Does the Province of
6 Ontario control long-term care homes and retirement
7 residence through licensing?

8 A. My understanding is there is a licensing
9 regime. I'm not familiar with the details.

10 402. Q. Okay. Are you familiar with the idea that
11 regulations are promulgated in order to supervise or
12 regulate these types of institutions?

13 A. Yes.

14 403. Q. Thank you. Under food, drink, and retail,
15 we see the cases that we spoke about before that there's
16 total number of reported death is three and outbreaks
17 during the reported period was 11.

18 A. That was during week 16, yes.

19 404. Q. Yes, okay. And the total number of cases
20 reported is 3,013, correct?

21 A. Uh-hmm.

22 405. Q. And it would appear to be the second lowest
23 number on this scale with personal care being the lowest
24 number. Is that a fair statement?

25 A. With respect to which column?

1 406. Q. It would be the column of total number of
2 cases reported.

3 A. Yes.

4 407. Q. Yes, thank you. It's a quarter to 11:00. I
5 think it would be appropriate to take a ten minute
6 break. Is that okay with you, Counsel?

7 MR. RYAN: That's fine, Mr. Swinwood. As you
8 had indicated at the conclusion of last day that you
9 expected this would only be a half day, Dr. Hodges made
10 himself available in accordance with that. So do you
11 expect to finish by noon?

12 MR. SWINWOOD: I don't think I'll be finished by
13 noon, but it won't be much after that. We make it until
14 1:00.

15 MR. RYAN: I'm not sure whether Dr. Hodge can do
16 that. He's been called into practice this afternoon.
17 Given that we were here to start at 9:22 this morning, I
18 ask that you finish by noon.

19 MR. SWINWOOD: Well I'll do my very best. So
20 let's just take ten minutes now.

21 MR. RYAN: That's fine. Thank you.

22 MR. SWINWOOD: Thank you.

23 (OFF RECORD DISCUSSIONS)

24 BY MR. SWINWOOD:

25 408. Q. Thank you. What I neglected to do is make

1 what we discussed at number 38 which was the World
2 Health Organization document, I'd like to make that
3 Exhibit 1 on this Examination, please?

4 MR. RYAN: I think we need to make that an
5 exhibit for identification purposes only since Dr. Hodge
6 said he wasn't familiar with that document.

7 MR. SWINWOOD: Well I thought he went on to say
8 that he knew of its existence and he knew about the
9 document. He said he hadn't read the document.

10 MR. RYAN: Why don't we make it an exhibit for
11 identification and you can point to whatever he said as
12 your evidence for whether it's been authenticated or
13 not.

14 **EXHIBIT NO. 1 FOR IDENTIFICATION PURPOSES:**

15 World Health Organization Document.

16 MR. SWINWOOD: Okay. Also, I would like to make
17 an exhibit, the Health Canada definition which was
18 figure number 7.

19 MR. RYAN: So Mr. Swinwood, that's just an
20 excerpt from some other document which I don't believe
21 you've told us what the source of it is.

22 MR. SWINWOOD: Health Canada. Health Canada.

23 MR. RYAN: So that's the organization that's the
24 source of it, but this was taken out of some other
25 document which you haven't provided. Is that right?

1 MR. SWINWOOD: That's correct. But we will
2 provide the document. So I'll make it Exhibit 2 for
3 identification also.

4 MR. RYAN: That's fine.

5 **EXHIBIT NO. 2 FOR IDENTIFICATION PURPOSES:**

6 Health Canada definition of outbreak.

7 MR. SWINWOOD: Okay. And then Exhibit 3 would
8 be the figure 8 which we're looking at right now. And
9 that's from Stats Canada.

10 MR. RYAN: And that's also an excerpt from a
11 longer document that we don't yet have.

12 MR. SWINWOOD: And so we will provide to you
13 that also. So you're making it an Exhibit 3 for
14 identification purposes.

15 **EXHIBIT NO. 3 FOR IDENTIFICATION PURPOSES:**

16 Figure 8, Statistics Canada document.

17 THE REPORTER: Okay. I'll just confirm that at
18 the end of the Examination.

19 MR. SWINWOOD: Thank you.

20 BY MR. SWINWOOD:

21 409. Q. So it would appear from figure 8, the Stats
22 Canada document that there would be -- if you add up
23 total number of reported deaths, that there would be a
24 figure of 13,789. That would be the calculation made in
25 the third column. Do you agree with that math, Dr.

1 Hodge?

2 A. I can do the arithmetic if you allow me to
3 go get a calculator. It seems about right.

4 410. Q. Well so we can deal with it as being correct
5 and we can do the math after. But 13,789 outbreak
6 linked death. So if we go to figure 9 now, please?
7 Figure 9 is showing us cases per outbreak by setting.
8 And what we have here again is an indication of long-
9 term care and retirement homes as being one of the
10 highest. And from communities is the highest level of
11 case per outbreak. Do you agree with that graph, Dr.
12 Hodge?

13 A. The bar is the highest for communities.
14 Again, there's no source. So I can't speak to the
15 accuracy of the numbers.

16 411. Q. All right. Well we'll provide the source.
17 What I'm saying to you is I believe the source is taken
18 from Stats Canada, but we will provide the source. So
19 I'll make that an Exhibit for identification.

20 **EXHIBIT NO. 4 FOR IDENTIFICATION PURPOSES:**

21 Figure 9, Statistics Canada document.

22 BY MR. SWINWOOD:

23 412. Q. If we can now go to Figure 10?

24 MR. RYAN: Mr. Swinwood, we're not going to
25 agree to a document provided after the Examination being

1 made an exhibit. That means the witness has never had a
2 chance to see it.

3 MR. SWINWOOD: Well no, I understand that, but
4 what we're going to be doing is dealing with these
5 documents, for instance, just showing you the source of
6 it. Like this document right here which is a Stats
7 Canada document.

8 BY MR. SWINWOOD:

9 413. Q. So this document comes from Statistics
10 Canada and this is showing international travel entering
11 or returning to Canada. Do you see that, Dr. Hodge?

12 A. Yes.

13 414. Q. And it would appear from this document that
14 there are approximately 4.5 million travelers and the
15 figure \$900,000 per month.

16 A. I don't see the dollar reference, sir.

17 415. Q. No, not dollar, but -- if you see total
18 international travels is at the top line, 4.599473.

19 A. Yes.

20 416. Q. Okay. And it would show approximately
21 900,000 per month.

22 A. I don't see a per month calculation. What I
23 see is numbers per month that range from 614,000 up to
24 4.59 million.

25 417. Q. Yeah, so ---

1 A. So if you can clarify your point.

2 418. Q. So it would be an average of 900,000 per
3 month.

4 A. I didn't realize we were here to do
5 arithmetic, but I will defer to your arithmetic in the
6 interest of time.

7 419. Q. Okay. But we didn't see any of that in the
8 cases outbreak that we talked about. There was no
9 category for travel. There was no category for people
10 travelling. You didn't see that in the previous graph,
11 did you?

12 A. I think that's because of your exhibit 2, if
13 I'm keeping track of it, which is the definition of an
14 outbreak.

15 420. Q. Yes, but going -- just simple straight up,
16 the graph before does not have anything about travel.

17 A. Well that's correct, sir, because travel is
18 excluded from the definition of the outbreak. It's a
19 tautology if I may say so.

20 421. Q. If we go to figure 12, please? And this is
21 deaths per outbreak and again, I think we've seen a
22 graph of this nature before, but again, it just
23 reinforces the idea that long-term care has been --
24 long-term care residences has been the hardest hit in
25 relation to deaths per outbreak. Again, do you agree

1 with that, Dr. Hodge?

2 A. I do, but deaths from outbreaks are, with
3 the exception of the congregate living outbreaks, are
4 largely irrelevant because it's the chains of
5 transmission that are the focus of the public health
6 measures, not the death prevention among the people
7 whose cases are attributed to that exposure. And we
8 certainly went through this in our first session. I'm
9 happy to reiterate it if that would be helpful for you.

10 422. Q. If we could go to -- and just as an aside,
11 would you agree that the people that are in long-term
12 care residences are essentially have high levels of
13 severe medical conditions that they deal with? Is that
14 a fair statement?

15 A. Yes and that's why they require care from
16 people who go to restaurants and churches and shops.
17 And that's why measures were taken to limit those
18 gatherings to try and reduce the importation of the
19 infection into that population of highly vulnerable
20 people.

21 423. Q. Well it would seem to me that the reason
22 that they were -- or the manner in which they would be
23 protected is to stop them at the door, not having them
24 sitting in a restaurant, but to stop them at the door of
25 the institution. Isn't that a fair statement?

1 A. I do not disagree with you theoretically,
2 although if you -- perhaps you're not familiar with
3 people who live in long-term care. They would require
4 regular care on the -- or in some cases every few
5 minutes or every hour. So to stop everybody at the door
6 would leave those people to suffer and die in their beds
7 uncared for.

8 424. Q. Well in most long-term care residences that
9 when a flu or Influenza hits the institution, most of
10 the employees stay in the institution so they can lock
11 the place down.

12 A. I'm not familiar with that, but perhaps you
13 can cite some evidence that I can respond to.

14 425. Q. Well it certainly is ---

15 A. --- not locked into their workplaces.
16 There's no legal framework for that in Ontario.

17 426. Q. Well there's certainly practices of long-
18 term care homes that bring this about in order to bring
19 infections down. Would you not agree?

20 A. I don't know what practices you're referring
21 to, sir. You said locked in which to me is barring
22 exit.

23 427. Q. Yes, that's correct. Barring exit. Staying
24 in residence for the six to eight weeks that it takes
25 for a virus to run its course.

1 A. So just to be clear, I am unaware of legal
2 or other measures that would direct long-term care homes
3 to lock their staff and employees inside the building.
4 If you are aware of those, you would be so kind as to
5 provide the evidence that I can respond to.

6 428. Q. No, I'm not talking about regulations or
7 anything. I'm talking just about a practice that would
8 be adopted by the long-term care home. But that's okay
9 ---

10 A. I believe you are speaking in the realm of
11 fiction. So I would require some evidence of that.

12 429. Q. Is Influenza ---

13 A. We can do the thought experiment. If PSWs
14 were routinely being locked inside the places they work,
15 how would they get change of clothing or food? Where
16 would they sleep?

17 430. Q. Well that's the whole point is that they
18 would have that practice because they have accommodation
19 for them. But ---

20 A. I think you're in the realm of fiction, sir.
21 I'm going to ---

22 431. Q. I don't think so, but that's fine.
23 Influenza, is that a respiratory virus?

24 A. It's a virus that is spread primarily
25 through respiratory transmission, yes.

1 432. Q. Is Pneumonia a respiratory virus?

2 A. Pneumonia is a clinical condition that can
3 be caused by a range of organisms, viruses, bacteria,
4 potential fungi.

5 433. Q. It's a respiratory virus?

6 A. No, it's not, sir. It's a clinical
7 condition in the same way that heart disease describes a
8 constellation of clinical conditions. Pneumonia
9 literally means an infection of the lung tissue.

10 434. Q. Okay.

11 A. That infection can be caused by a range of
12 organisms, some of which are viruses.

13 435. Q. Okay. And Covid-19 is a respiratory virus?

14 A. It is a virus that is spread by respiratory
15 transmission, yes.

16 436. Q. Thank you.

17 A. It also produces clinical effects in other
18 physiologic systems beyond the respiratory system.

19 437. Q. Okay. Can we look at figure 13, please? Is
20 it fair to say that given the graph of again, the deaths
21 per 100 cases or percentage of cases that result in
22 death, again we're visited upon the long-term care, is
23 it fair to say that those with pre-existing conditions
24 face a much higher risk of death?

25 A. So there's an interaction with age, but

1 generally at any age, people with, what you call
2 preexisting conditions, will have a higher risk of death
3 from all causes. And it would appear from the Covid
4 experience, from Covid that applies too. People who are
5 older have an independent age associated risk of death
6 associated with their age.

7 438. Q. So one could say that it's not the building
8 itself, but it's the specific characteristics of the
9 people in the building?

10 A. If you say that, that's your opinion. I
11 would propose to you that it's actually the organization
12 of those people. If we take a healthy group of people,
13 we put them in four bedrooms, we don't let them leave
14 and we have staff move from room to room to assist them
15 with toileting and feeding, we'll see higher rates of
16 infection than if we stay in our own private residences.

17 439. Q. If we go to figure 15? This is a graph
18 showing the deaths by setting. And it would show long-
19 term care and retirement residences as 90.9 percent and
20 hospitals and healthcare is 6.1 percent and gatherings,
21 office and gyms is in the blue, you can hardly see it.
22 So doing the math, it's about 4 point something percent.
23 Would you agree with this line, Dr. Hodge?

24 A. Again, without any source, this graph
25 doesn't meet the standards of reasonable presentation.

1 Are you referring to outbreak deaths or all deaths here?

2 440. Q. Well it's deaths by setting. So it's all
3 deaths in those settings.

4 A. No, I believe you're mistaken. Are these
5 outbreak deaths, outbreak associated deaths, the 13,000
6 that you showed us in the initial exhibit or are these
7 all roughly 60 -- sorry, 25,000 deaths in Canada?
8 Because that's important to my interpretation of your
9 figure.

10 441. Q. It's the 13,000 that we referred to.

11 A. So you're referring to outbreak associated
12 deaths?

13 442. Q. Correct.

14 A. And your question?

15 443. Q. Well I'm asking you if you agree with this
16 outline of 90 percent in the long-term care and
17 retirement homes.

18 A. So this is arithmetic subject to the source
19 being valid, I don't disagree with basic arithmetic.
20 Two and two is pretty much always four.

21 444. Q. Okay. So if we could go to figure 16? So
22 it's a total outbreak linked deaths. This is virus
23 roaming in the institutions versus virus roaming outside
24 the institutional walls. That's community spread. Do
25 you agree with this graph?

1 A. I would decline to comment it. It lacks the
2 basics of source, definitions. You might as well ask me
3 if I think the Montreal Canadiens will win the Stanley
4 Cup.

5 445. Q. Well based on the numbers that we were
6 talking about, it would appear that this proportion
7 exists in the general population and in the long-term
8 care population, that there appears to be two
9 populations, one that's in institutions and one that's
10 outside the institutions. And it's simply stating a
11 proposition that the outbreak and linked deaths is way,
12 way higher in the institutions than it is in the general
13 population.

14 A. So if you wish to engage in the general
15 population conversation, I think you have to
16 appropriately consider deaths which could not be linked
17 to an outbreak. So if we have 13,000 -- let's agree
18 it's 13,000 for the purpose of not getting bogged down
19 in arithmetic, outbreak linked deaths, Canada has had
20 25,000 deaths. Which means the community spread box is
21 missing 12,000 dead. When you add those in, I think
22 you'll find that 12,000 and 13,000 are broadly similar.

23 446. Q. Well we'll come to that in a moment here.

24 A. Do you see my point though, sir? I want to
25 clarify that virus roaming outside institutional walls

1 has no public health meaning. Outbreaks by definition
2 occur in institutions. Your earlier exhibits have
3 demonstrated that very ably. So to now suddenly jump to
4 say we're talking about outside the institutional walls,
5 surely we should admit the deaths that occur outside
6 institutions.

7 447. Q. Well so if we take those figures then we say
8 that there's 24,402 Covid-19 related deaths in Canada,
9 let's just take that as a statistic. Do you agree with
10 that statistic?

11 A. I would defer to my Affidavit. The number
12 is 24,714 in table one.

13 448. Q. Okay. So we'll go with 24,714. That -- let
14 me go to Figure 18. Now this is a graph from Statistics
15 Canada and it gives age distribution of death in Canada.
16 And we're showing, again, the majority of the population
17 over 60 is who is affected by this Covid-19. Would you
18 agree with that?

19 A. The majority of the deaths occurred in
20 persons of over 60. The term affected has a range of
21 meanings.

22 449. Q. So deaths, you'll agree with me then it's
23 deaths.

24 A. Yes, the appropriate way to present this is
25 not proportional mortality which is the percentage of

1 deaths by age groups, but the rates of deaths. So how
2 many deaths per 100,000 of each age group.

3 450. Q. Correct. And so this would -- over 60, it
4 would appear that that accounts for 95.3 percent.
5 Again, doing the math.

6 A. Again, from a proportional mortality point
7 of view, yes.

8 451. Q. Yes. So in -- of all the 24,402 deaths, I
9 believe the next figure 18 -- there's a statement that
10 9.4 million Canadians are over 60 which is a Statistics
11 Canada number which would equate to about 25 percent of
12 the population. Would you agree with that number?

13 A. Subject to verification, yes.

14 452. Q. Okay. And so that the 24,710 deaths that
15 you described would be over a population of 9.4 million.

16 A. No, that's over the entire population, sir.

17 453. Q. Okay, but the people over 60 I mean. I'm
18 talking about over 60.

19 A. My Affidavit does not speak to the age
20 distribution of deaths.

21 454. Q. Okay. Also, Statistics Canada census
22 suggests that there are approximately 160,000 living in
23 long-term care in Canada. Would you agree with that?

24 A. Again, subject to verification.

25 455. Q. Okay. Can we go to figure 19, please? We

1 don't seem to have it.

2 MS. BENJAMIN: I can pull it up if you want to
3 give me a minute.

4 MR. SWINWOOD: Okay.

5 BY MR. SWINWOOD:

6 456. Q. So this represents the elderly population
7 living inside versus outside institutional settings.
8 And the green represents seniors living outside of
9 institutional settings. And the red indicates Canadians
10 living in institutions which is long-term care,
11 hospitals, and prisons. So institutions, we're
12 suggesting there's a maximum of 292,000. Outbreaks
13 there would appear to be 13,611 which is outbreak linked
14 deaths. And on the opposite side, we have the
15 population of approximately 9.1 million and outbreak
16 linked deaths of 178. Does that accord with what you
17 know, Dr. Hodge?

18 A. The numbers seem broadly reasonable.

19 457. Q. All right. If we could go to figure 22,
20 please?

21 MS. BENJAMIN: Can you confirm if it's sharing
22 the correct figure or if it's stuck on the old one?

23 MR. SWINWOOD: Okay.

24 MR. RYAN: It's showing figure 22.

25 MS. BENJAMIN: Thank you.

1 MR. SWINWOOD: Thank you.

2 BY MR. SWINWOOD:

3 458. Q. So we have outbreaks in long-term care,
4 13,000 and then we have long-term care not linked to
5 outbreaks, 4,000. And hospitals and prisons not linked
6 to outbreaks for a total of 18,275. And what we have
7 outside the institutions is the 178 we saw before and
8 the balance of deaths at 5,949 which gives us a figure
9 of 6,127. And that brings us to the total of 24,402.
10 It's off by your calculation of 24,710. But it's an
11 approximate basis.

12 459. Q. Do you agree with that, sir?

13 A. I don't understand "give gov'd benefit of
14 the doubt."

15 460. Q. Well it's talking about the balance of
16 deaths and the figure that is estimated by the
17 government. That's what it means.

18 A. But the material in the brackets.

19 461. Q. Yes, that's the material in the brackets.
20 "Give Government benefit of the doubt." Meaning the
21 balance of deaths, the 5,949. It's based on estimates.

22 A. Are you asserting that these people might
23 not be dead?

24 462. Q. No, I'm not asserting that, sir. I'm
25 suggesting to you it's a guesstimate number. But what

1 it does is it breaks it down in terms of institution
2 versus those outside the institution. And I'm just
3 trying to show the proportion in relation to the total
4 number of deaths that we talked about.

5 A. Yes.

6 463. Q. And I'm suggesting to you that that's the
7 breakdown.

8 A. It seems reasonable.

9 464. Q. Okay, thank you. I'd like to make that an
10 exhibit, please.

11 MR. RYAN: Also for identification. We also
12 don't know the source of this.

13 **EXHIBIT NO. 5 FOR IDENTIFICATION PURPOSES:**

14 Figure 22.

15 BY MR. SWINWOOD:

16 465. Q. Okay. And then if we could go to -- 22 is
17 what we're on. So 25, please. Sorry, go to 26. This
18 also is a Stats Canada document. You can see at the top
19 it says, "Source to Statistics Canada." And it's total
20 deaths per 100,000 population Canada February 20th. 2011
21 to February 6th, 2021. And you see that sir?

22 A. Yes.

23 466. Q. And so what it is showing here is the -- can
24 you just make that a little bigger, Carly, please?
25 Thank you. It's showing selected grouped causes of

1 death by week and the population estimates quarterly.
2 And what we see here is Covid-19 is taking up the
3 column, February 6th, 2021. And it would show that
4 there's only a slight increase in the total number or
5 groups of deaths caused. Do you agree with that, sir?

6 A. I think the figure is unclear. It says in
7 the title total deaths, but in the fine print it says,
8 "Selected grouped deaths causes of deaths." So I would
9 need to know which causes of death were selected. I
10 would also wish to see confirmation that this has been
11 age adjusted for the change in the population structure
12 between 2012 and 2021.

13 467. Q. But this is representing the severity of the
14 Covid pandemic compared to previous years with normal
15 mortality. That's what the comparison is about.

16 A. See, that's your opinion, I understand.

17 468. Q. Well that's what the graph is designed to do
18 is to show the severity of Covid-19 over the years 2012
19 to 2021.

20 A. Right, but since ---

21 469. Q. It's a graph ----

22 A. --- the information presented in the graph
23 lacks the basic context that I would need to provide an
24 opinion, I just wanted to clarify that your opinion is
25 that this is about Covid-19. I'm unable to comment.

1 470. Q. Well what it's about is the mortality rate
2 over that period of time. That's what it is. It's
3 representing the mortality rate.

4 A. So you say.

5 471. Q. Well that's what they say.

6 A. But again, sir, there's basics of what we
7 might call effective scientific communication that are
8 missing from this graph. I don't know who prepared it.
9 I don't wish to impugn their motives, but I would need
10 to see confirmation of age adjustment for change in
11 population structure. I would need to see confirmation
12 of which causes of death were selected and I would like
13 to understand the construction of the black line.

14 472. Q. But it is -- the source of the document
15 again is Statistics Canada.

16 A. As you say.

17 473. Q. Well no, I'm not saying it. It says right
18 on the document.

19 MR. RYAN: Mr. Swinwood, in the lower right the
20 graph says, "@Milhouse." That suggests to me that this
21 is created by a Twitter user, not by Statistics Canada.

22 MR. SWINWOOD: Well the source is Statistics
23 Canada. That's the table that it comes from. But in
24 any event, we'll identify it for you. Go to figure 28,
25 please?

1 MS. BENJAMIN: Give me a moment for that one.

2 MR. SWINWOOD: Yeah.

3 MS. BENJAMIN: Is this the one, Michael?

4 MR. SWINWOOD: Yes.

5 BY MR. SWINWOOD:

6 474. Q. This was a question to Toronto Public
7 Health, why the media is recording death as Covid-19
8 even if the death was caused by unrelated conditions and
9 reasons according to doctors. And the reply from
10 Toronto Public Health was individuals who have died with
11 Covid-19, but not as a result of Covid-19 are included
12 in the case counts for Covid-19 deaths in Toronto. In
13 your experience, Dr. Hodge, is this a correct statement?

14 A. Yes.

15 475. Q. And so is it -- if someone, let's take in a
16 long-term care home, passes away, they are included as a
17 Covid-19 death even though it's not as a result of
18 Covid-19?

19 A. I think it's helpful to understand what you
20 mean by result. Because -- I apologize if this is
21 inadequately differential. Death is not a simple
22 ascertainment of this caused that. And with the
23 exception of trauma. So for example, if you get run
24 over by a truck at high speed, we can be pretty
25 confident that you died as a result of that. But even

1 then, you may have died of intracranial hemorrhage, you
2 may have died from an aortic dissection. So the person
3 in a long-term care facility, perhaps one such as you
4 have proposed to manage where the staff are locked in or
5 out and therefore can't work who starves to death and
6 has Covid-19, Covid-19 likely contributed to their
7 death. What is the immediate cause of death?

8 Presumably starvation. The same goes with people who've
9 had strokes whose risk is substantially indicated by
10 Covid-19. The immediate cause of death, Covid-19.
11 Contributing cause of death -- sorry, the immediate
12 cause of death, stroke. Contributing cause of death,
13 Covid-19. So in order to have a comprehensive picture
14 of how Covid-19 is affecting mortality where a person
15 dies with Covid-19, it would be attributed to Covid-19
16 deaths.

17 476. Q. But as Toronto Public Health says, it's not
18 as a result of Covid-19 that they died.

19 A. Result has no epidemiologic meaning in the
20 matter of death ascertainment. There's a notion of
21 immediate causes and contributing causes. If you have
22 an issue with Toronto Public Health, I encourage you to
23 take it up with Dr. De Villa.

24 477. Q. Is there a protocol or is there a code in
25 the hospital, for instance, that puts Covid-19 on death

1 certificates even if they've died of a heart attack?

2 A. So I would defer to each hospital's
3 practice. There's a standardization of coding that
4 happens. It takes places away from the clinical work.
5 So you would probably need to seek expertise from people
6 who do that work.

7 478. Q. What about in your own hospital where you
8 work?

9 A. I don't do that work, sir. I'm not a coder.

10 479. Q. No, but when you're treating people and --
11 do you have to pronounce death at any time?

12 A. I do.

13 480. Q. And is there a protocol wherein you
14 pronounce them a Covid-19 death if they have a PCR test
15 that's positive despite the fact they died of a heart
16 attack?

17 A. So, I have not had, in the emergency
18 department, that situation arise because the PCR test
19 results are often not available. So that's why cause of
20 death coding involves a complex system of information
21 management of which the physician is a very minor part.

22 481. Q. Well the physician is the one who has to
23 fill out the death certificate, correct?

24 A. That's correct, but what the physician
25 writes on the death certificate may not be the final

1 attribution of cause to death or death to cause, if you
2 prefer.

3 482. Q. In -- just a moment. Just give me a second
4 here. I have to find my document. Can we go to number
5 39, please, Carly? Not figure 39, but number 39 on the
6 index. Are you familiar at all with this document, Dr.
7 Hodge, Canadian Pandemic Influenza Preparedness Planning
8 Guidance for the Health Sector?

9 A. I'm aware of its existence. I'm not
10 familiar with its content.

11 483. Q. Okay. You haven't looked at this?

12 A. No, this is -- you did not submit this as
13 far as I was aware.

14 484. Q. No, but I'm -- I just mean in your own
15 experience that you haven't seen this or referred to
16 this document?

17 A. No.

18 485. Q. No. Number 40, go to number 40, please.
19 This is public health measures annex. And it's February
20 14th, 2019. Have you ever seen this document?

21 A. No.

22 486. Q. Okay, 41. This is surveillance annex. Have
23 you seen this document?

24 A. No.

25 487. Q. Number 42, the Federal Emergency Response

1 Plan which is dated January, 2011. Have you ever seen
2 this document?

3 A. No.

4 488. Q. Forty-three. Federal, Provincial,
5 Territorial Public Health Response Plan for Biological
6 Events, 2018. Have you ever seen this document?

7 A. No, not this version.

8 489. Q. Another version?

9 A. There have been previous FPT planning
10 efforts and I was aware of their existence when I did
11 some contract work for the Federal Government for
12 Indigenous Communities.

13 490. Q. But the 2018 document you've never seen nor
14 referred to?

15 A. No, I wasn't -- I was not doing that work at
16 that time.

17 491. Q. Okay. And you haven't seen it, nor referred
18 to it in preparing your Affidavit?

19 A. No.

20 492. Q. No. 44. These are the International Health
21 Regulations from the World Health Organizations. You're
22 familiar with that document?

23 A. Yes.

24 493. Q. And have you ever referred to it in your
25 preparation of your Affidavit?

1 A. For this? No.

2 494. Q. Okay.

3 A. Because as I said, Ontario is not a state
4 party.

5 495. Q. I'll just refer to number 45. And this is
6 chapter one, Ontario Health Plan for an Influenza
7 Pandemic. Have you ever referred to this document?

8 A. This version, no.

9 496. Q. Pardon me?

10 A. This version, no.

11 497. Q. What version would you have referred to?

12 A. There were previous versions that I was
13 using when I was working as a consultant, as I said, for
14 Indigenous Communities.

15 498. Q. Okay, but not in preparation of your
16 Affidavit or anything like ---

17 A. No. Influenza was not, as I understand,
18 material to your client's concerns.

19 499. Q. Document number 54, please. This is a
20 publication of the Ontario Public Services Guide to
21 Public Service Ethics and Conduct. Have you ever seen
22 this document?

23 A. When I worked for the Public Service of
24 Ontario, I was -- I reviewed this document when I was on
25 boarded.

1 500. Q. And so you have worked with this document
2 before?

3 A. I don't know which version you're using, but
4 this document goes through various revisions. I was an
5 Ontario Public Service member from 2015, January,
6 through April, 2016.

7 501. Q. Okay.

8 A. Or January, 2016 through April, 2017.

9 502. Q. Okay, just go through, Carly, one page to
10 see if there's a date on this. No, okay. And in
11 relation to this guide for Public Service Ethics and
12 Conduct, are you familiar with what's in the document?

13 A. Yes, when I was -- as I said, when I was an
14 employee of the Ontario Public Service, I reviewed this
15 when I started my employment.

16 503. Q. All right, thank you. If we can go to
17 document number 55, please? This is Public Health
18 Agency of Canada, the Act. Are you familiar with this
19 Act at all?

20 A. Yes, generally. I'm not familiar with it at
21 a level of the specific clauses.

22 504. Q. But you're familiar with the Act?

23 A. Uh-hmm.

24 505. Q. All right. I noticed in your CV that you've
25 had experience with the United Nations in various

1 capacities in the past. Is that correct?

2 A. Yes.

3 506. Q. And you also worked with the World Health
4 Organization. What were the years that you did that?

5 A. I had three separate contracts between 1999
6 and 2001.

7 507. Q. And do you -- are you aware of the setup of
8 the World Health Organization today? For instance, are
9 you aware of who is the head of the World Health
10 Organization?

11 A. Are you referring to the Director General?

12 508. Q. Correct.

13 A. Yes.

14 509. Q. And you know Dr. Tedros?

15 A. Not personally, no.

16 510. Q. You know of him. You know he's the Director
17 General?

18 A. Yes, that's correct.

19 511. Q. Yeah. Were you aware of his involvement in
20 security forces in Ethiopia before his appointment to
21 the WHO?

22 A. I was not aware of his existence until he
23 was appointed.

24 512. Q. So do you know anything about his
25 background?

1 A. I understand he's from Ethiopia.

2 513. Q. But are you aware that he was Head of
3 Security Forces in Ethiopia?

4 A. No.

5 514. Q. Okay. Are you familiar with the
6 relationship between the Bill and Melinda Gates
7 Foundation and the World Health Organization?

8 A. I have read in public reports that the Bill
9 and Melinda Gates Foundation makes donations that WHO
10 uses to support countries in public health actions.

11 515. Q. What about the World Health Organization
12 itself? Are you aware of their contributions to the
13 World Health Organization?

14 A. I'm sorry, that sounded like a circular
15 question. Could you rephrase, please?

16 516. Q. Sure. Are you aware of the Bill and Melinda
17 Gates Foundation contributions to the World Health
18 Organization?

19 A. So as I said, I have read in the newspaper
20 that the foundation makes donations that WHO uses to
21 support public health activities in countries.

22 517. Q. But specifically with the World Health
23 Organization is what I'm asking you.

24 A. I don't understand your question, but I've
25 given you the answer of the limit of my familiarity with

1 the Gates Foundation.

2 518. Q. Okay. Now we talked about -- when we were
3 last together, we talked about vaccinations and we
4 talked about studies that had been conducted in relation
5 to the companies that are creating these vaccinations.
6 Were you able to look at or find any of those studies?

7 A. I reviewed the material on the Canada
8 Website which I believe was shared with you.

9 519. Q. No, there was an undertaking to provide us
10 with the studies that you mentioned. I'm just wondering
11 if you were able to access those studies?

12 A. As I said, I reviewed them on the Canada
13 website.

14 520. Q. Well can you point ---

15 A. Can you clarify what you mean by access?

16 521. Q. Well, just can you tell me where the
17 documents are on the Canada website? Is that what
18 you're saying?

19 A. So I would defer to Counsel. I reviewed the
20 Government of Canada's website on the vaccines that are
21 approved for use in Canada. And shared that information
22 with Counsel for the Crown with the view to clarifying
23 if this would meet your needs and perhaps Mr. Ryan, can
24 you update me?

25 MR. RYAN: Sure. So Dr. Hodge, we respond to

1 undertakings after the conclusion of the Cross-
2 Examination. So we haven't passed anything onto Mr.
3 Swinwood at this point, but we would do so once we're
4 concluded. If Mr. Swinwood wants to ask you questions
5 about what you looked at, that's fine. But that's the
6 point in which the actual production takes place.

7 THE WITNESS: Thank you.

8 BY MR. SWINWOOD:

9 522. Q. Well that's what I would like to know, Dr.
10 Hodge. What is it that you looked at?

11 A. So on the Government of Canada website,
12 there is a series of tables that indicate the vaccine
13 agents that have received emergency use approval and the
14 information that was submitted in support of those
15 applications.

16 523. Q. So those are the studies then that you're
17 referring to that we would be looking at from your
18 perspective? Those studies?

19 A. Yes.

20 524. Q. Okay, thank you. If we could go to figure
21 43? This is a -- there's the vaccine adverse events
22 reporting system. This is maintained by the CDC in the
23 United States. And what we're seeing here is that
24 through May 14th, 2021, the statistics, 4,201 deaths,
25 12,625 hospitalizations, 29,707 urgent care. So these

1 statistics are through to May 14th, 2021. Have you ever
2 had occasion to view the adverse effects of the
3 vaccinations that have been underway?

4 A. When you say view, are you referring to
5 looking at this website?

6 525. Q. Yes. Let's say that, looking at this
7 website.

8 A. No, I -- the United States' experience with
9 the vaccine is the United States' experience. I regret
10 that I don't have time to consider every country. And
11 so I'm not familiar with these numbers. And I would
12 point out that the way this is presented lacks clear --
13 a way for us to verify that these are accurate.

14 526. Q. If we go to figure 53. So this is called
15 global Ivermectin adoption for Covid-19 and it goes
16 through various countries. And this is -- again, we're
17 back to Ivermectin and your view that this is --
18 Ivermectin is not federally approved or regulated. Is
19 that what your statement was, sir?

20 A. Yes, drugs are approved for specific
21 clinical indications and at this time, Ivermectin is not
22 approved for Covid-19 treatment or prevention in Canada.

23 527. Q. Do you know, for instance, of peer-reviewed
24 studies that suggest that it's one of the essential
25 medicines on the World Health Organization's lists?

1 A. And in that case, it's for the specific
2 indication of parasitic infections, yes.

3 528. Q. Yes. So it's viewed by the World Health
4 Organization as an essential medicine.

5 A. With respect to the indication of parasitic
6 infection, yes.

7 529. Q. And there is some suggestion that Ivermectin
8 has a protective effect in relation to those who contact
9 Covid-19. Do you agree with that?

10 A. Are you asking me if I'm aware of the
11 suggestion or do I agree with the substance of the
12 matter?

13 530. Q. Do you agree with the substance of the
14 matter?

15 A. I have no opinion about it.

16 531. Q. Have you ever looked into it and opined on
17 it?

18 A. Well given your enthusiasm for Ivermectin,
19 since we last spoke, I did a quick review looking for a
20 randomized trial of Ivermectin use in persons with
21 Covid-19 with regard to treatment or persons without
22 Covid-19 with regard to prevention. And I was unable to
23 identify one. I notice also that none of your experts
24 identified one in the materials that they provided. So
25 I concluded that that was a reasonable effort with

1 regard to your optimistic aspirations for this medicine.

2 532. Q. Have you read Dr. Risch's report in relation
3 to Ivermectin? Have you read ---

4 A. I have.

5 533. Q. You have?

6 A. Yes.

7 534. Q. And he goes through all the science that's
8 spoken to there and the studies that have been
9 conducted.

10 A. I feel like we're going back to where we
11 started last week. So I'll simply reiterate it. When
12 we do studies that are not randomized, we come up with
13 results that are often not supported when we do the
14 definitive scientific test which is half the people get
15 Ivermectin and half don't. That randomized study is
16 necessary for regulatory approval in Canada. Absent
17 that study, Dr. Risch and others, it would behoove them
18 to do that study because if it's as good as they
19 believe, it could save thousands of lives. But I note
20 they haven't done it. And so I'm left unable to use
21 that for patients. And as a matter -- I don't make my
22 clinical decisions based on belief that a medicine
23 works. We have a whole regulatory, marketing, and
24 scientific framework for confirming that on balance a
25 medicine is effective for the condition for which it's

1 prescribed.

2 535. Q. But there's a suggestion by Dr. Risch that
3 there are all sorts of studies that give credence to the
4 idea that it's very effective in the treatment of Covid-
5 19 specifically.

6 A. There are all sorts of people who believe
7 the Leafs would defeat the Canadiens. Non-randomized
8 studies are not much better than sport fan beliefs as
9 basis for policy making because too many people would be
10 harmed if the drug has adverse effects that have not
11 been adequately document or worse, has no benefit to
12 offset those adverse effects.

13 536. Q. But those aren't his conclusions, those are
14 your conclusions.

15 A. No, I'm stating that's a matter of broad
16 scientific consensus. Drugs are approved for use in
17 humans on the basis of randomized controlled trials.
18 They're not approved on the basis of laboratory
19 investigations in rats. They're not approved based on,
20 "I gave the medicine to ten people and eight of them got
21 better."

22 537. Q. That sounds like what's missing in the
23 vaccinations. Exactly what you're talking about?

24 A. Not -- trials. Patients received ---

25 538. Q. What you're talking about is missing.

1 A. You are absolutely mistaken, sir. I would
2 respectively note that vaccines were actually tested in
3 randomized trials because trial participants, some of
4 them received placebo which meant they got no vaccine,
5 they got no protection. The rates of infection were
6 tracked in the vaccine group and the placebo group and
7 it was shown that the rates of infection in the vaccine
8 group were 90 plus percent lower than in the placebo
9 group. People were willing to donate their time and
10 health for the benefit of the entire human community to
11 confirm that these vaccines work. They might be willing
12 to do so for Ivermectin, but that study has not
13 happened.

14 539. Q. The clinical -- usually in relation to drugs
15 that need to be approved, there needs to be animal
16 testing, correct?

17 A. Animal testing is generally done as a
18 prelude to human testing. That is correct.

19 540. Q. Has that been done in relation to the
20 vaccines that we're looking at today?

21 A. So part of the challenge is, is there an
22 animal model that's available? I'm not a vaccinologist,
23 but my understanding is that in general, vaccines have
24 been challenging to test in animal models because we
25 don't have animal models that are adequate

1 representation of human physiology with respect to
2 vaccines. We, as humans, are blessed with an immune
3 system that's amazingly complex. So vaccine trials are
4 typically done in human populations as were the Covid-19
5 vaccine trials.

6 541. Q. And the Covid-19 vaccinations presently skip
7 the animal testing and the testing is now on the humans.
8 Is that a fair statement?

9 A. If you wish to hold that opinion, I defer to
10 your opinion. I do not agree with you because I made
11 the point -- I will repeat it for you. If there is no
12 animal model, there can be no animal testing.

13 542. Q. The clinical -- would you agree with me, the
14 vaccination program that we have now is clinical trial?

15 A. No, I disagree wholeheartedly. The clinical
16 trials were done prior to marketing approval. What we
17 have now is a lifesaving intervention that has the
18 potential to return, not only to prevent death and
19 illness, but to return our healthcare system and our
20 entire society to a more normal level of functioning.

21 543. Q. Can you please suggest to me the studies
22 that back up what you've just said?

23 A. I'm sure they'll be provided to you at the
24 end of this Cross-Examination.

25 544. Q. Well no, I mean -- I specifically would like

1 to see the study that substantiates what you just said
2 about vaccinations for Covid-19.

3 A. So I said two things. I said there's no
4 animal model and I said that it's producing dramatic
5 reductions in deaths and hospitalizations.

6 545. Q. And what ---

7 A. We can provide you -- your undertaking
8 initially was a request for the studies of the vaccine's
9 effectiveness. If you wish to make an undertaking
10 regarding the reductions in deaths and hospitalizations,
11 please discuss with Mr. Ryan and I would be happy to
12 support your request.

13 546. Q. Well terrific. That -- can we have an
14 undertaking for those studies, please?

15 MR. RYAN: That's fine.

U

16 MR. SWINWOOD: Thank you.

17 BY MR. SWINWOOD:

18 547. Q. Can we go to number 108, please? Are you
19 familiar with Luc Montagnier, Dr. Hodge?

20 A. I actually have heard him speak, yes.

21 548. Q. Yeah. Yeah, you're aware that he was a
22 Nobel Peace Prize winner in 2017 in Virology?

23 A. I believe he was actually a Nobel Prize
24 Winner in Medicine and Physiology, not a Peace Prize
25 Winner.

1 549. Q. Okay. I'm sorry. He was a Nobel Medicine
2 Prize Winner. Do you agree with that?

3 A. It's a matter of public record, yes.

4 550. Q. Yeah. Do you consider him to be expert in
5 his field?

6 A. In some areas, yes.

7 551. Q. Okay. In this article, he is suggesting
8 that what you described in your Affidavit of variants of
9 concern, he's suggesting in this article that the
10 variants are coming from the vaccination itself. So if
11 we could look at the article here? There we go. Can
12 you make it bigger, please, Carly? Thank you. The
13 first sentence says,

14 "While it is understood that viruses mutate
15 causing variants, French Virologist and Nobel
16 Peace Winner -- Nobel Prize Winner, Luc
17 Montagnier contends that it is the vaccination
18 that is creating the variants."

19 He goes on -- if you can go a little into the article
20 here, please? Thank you. Just stop there. So first of
21 all, he's basically saying that the variants are really
22 being caused by the vaccination. Do you agree with him?

23 A. No.

24 552. Q. Why?

25 A. Because I look at what the goal of the

1 vaccination is and I see declining death rates in
2 vaccine populations, vaccinated populations compared to
3 non-vaccinated populations. And my job is to prevent
4 death. And so vaccines work to prevent death. I also
5 note that Dr. Montagnier has not backed up his
6 assertions with a peer-reviewed publication whereas I
7 can access peer-reviewed publications that show the
8 deaths have decreased. And I'm also concerned that the
9 article appears to have typographic errors which raises
10 questions also for me about its credibility.

11 553. Q. I see. Well these are quotes coming
12 directly from Professor Montagnier. And in this
13 paragraph he says,

14 "Professor Montagnier referred to the vaccine
15 program for the Coronavirus as an unacceptable
16 mistake. Mass vaccinations are a scientific
17 error as well as a medical error, he said. It's
18 an unacceptable mistake. The history books will
19 show that because it is the vaccination that is
20 creating the variants. [He goes on to say that]
21 There are antibodies created by the vaccine
22 forcing the virus to find another solution or
23 die. This is where the variants are created.
24 It is the variants that are a production and
25 result from the vaccination."

1 You disagree with that, sir?

2 A. I simply would ask Dr. Montagnier to provide
3 a scientific approach to his assertions. Professor
4 Montagnier has made many assertions over the course of
5 his career. Some of them backed up by science and some
6 perhaps aspirational or innovative thinking. While I
7 don't wish to frequent you in ten or twenty years, we
8 could both look at the history books then and see
9 whether the vaccination in fact created the variants.

10 554. Q. "Professor Montagnier said that the
11 epidemiologist know, but are silent about the
12 phenomenon known as antibody dependent
13 enhancement. In the articles that mention ABE,
14 the concerns expressed by Professor Montagnier
15 are dismissed. Scientists say that ABE is
16 pretty much a non-issue with Covid-19 vaccines.
17 An article of today reported in March. [Thank
18 you] Professor Montagnier explained that the
19 trend is happening in each country where the
20 curve of vaccination is followed by the curve of
21 deaths."

22 Do you disagree with what he says there, sir?

23 A. Out of respect for Professor Montagnier, I
24 would like to see the evidence of the trends in each
25 country and the curves and those are not provided in

1 this source. I would also point out that the mRNA
2 vaccines and Dr. Montagnier's career is, shall we say,
3 in the twilight at age roughly 90. mRNA vaccines
4 introduce no viral particles into the human host. If
5 you have a virus in the human host, you can have
6 selection pressure where stronger virus or more variant
7 virus overtakes the less strong virus. The mRNA vaccine
8 introduces no virus. So if Dr. Montagnier's
9 explanation, if I'm generous given his many
10 contributions to science, is about selection pressure
11 from a live viral agent, he has perhaps omitted or
12 failed to understand the mechanism of these new
13 scientifically new vaccines. mRNA vaccines, Pfizer,
14 Moderna introduce no viral material into the human host.
15 So there's nothing to select against.

16 555. Q. Are you aware of the ingredients of the
17 vaccination offered by these drug companies?

18 A. When you say ingredients, what do you mean?

19 556. Q. Just what I mean, the ingredients that go in
20 to the product.

21 A. Ingredients is not a vaccine term. There's
22 a vehicle, there's adjuvant. What are you describing,
23 sir?

24 557. Q. Well that's what I'm asking you. I've got a
25 vial in front of me with a substance in it. What is in

1 the vaccine? What is in that vial?

2 A. What is says on the label

3 558. Q. And are you familiar with what's on the
4 label?

5 A. Well I've had a look at a couple of labels
6 in the course of my practice, yes. I couldn't rhyme it
7 off for you. I would refer to the product monograph.

8 559. Q. Well would you be so kind as to undertake to
9 provide us with the ingredients of the vaccination?

10 A. I mean, I defer to Mr. Ryan. I think that
11 would be more correctly or appropriately directed to the
12 manufactures of those vaccines so that you would be
13 confirmed that you've received accurate information.

14 MR. RYAN: We'll take that under advisement,
15 Counsel.

A

16 MR. SWINWOOD: Thank you.

17 BY MR. SWINWOOD:

18 560. Q. "In this article, Professor Montagnier
19 continues to say that he is doing his own
20 experiments with those who became infected with
21 the Coronavirus after getting the vaccine. 'I
22 will show you that they are creating the
23 variants that are resistant to the vaccine.'"

24 That's quite a statement from the Nobel Prize Winner.
25 Don't you think, Dr. Hodge?

1 A. Well it's also about a statement of
2 aspiration or future. "I will show you." And as you
3 may recall from the HIV/AIDS era, Professor Montagnier
4 and others made many statements of aspiration and the
5 data came out and reshaped the conversation.

6 561. Q. Does it not concern you as a medical doctor
7 that a Nobel Prize Winner in Medicine is saying such a
8 controversial thing in relation to the vaccinations?

9 A. I don't have a measure for concern, sir.
10 What I know is that I can make the best decisions for
11 the patients, the population that I'm trying to assist
12 or trying to serve based on the best science. Dr.
13 Montagnier's experiments, if they are ongoing and they
14 are published and they meet the standards of peer-
15 review, they would be incorporated into that thinking.
16 But at this time, this is at the level of the Toronto
17 Maple Leafs announcing they're going to win the Stanley
18 Cup.

19 562. Q. I take it from your answers in this regard
20 that you are a Leaf fan.

21 A. No, not at all actually. I grew up in
22 Quebec and one of my childhood traumas was being
23 relocated to Ontario in the 1970s and having to tolerate
24 Hockey Night in Canada never showing the Montreal
25 Canadiens.

1 563. Q. Oh, so there you go. And you're happy that
2 the Canadiens won?

3 A. I have no opinion about it. I was trying to
4 add some levity to our conversation.

5 564. Q. Yeah, I get it. I get it. Are you aware of
6 ---

7 A. I see we have just a couple minute left.

8 565. Q. Yeah, no problem.

9 A. Can I just ask Mr. Ryan, is there -- should
10 we be continuing?

11 566. Q. No, no, we're getting close. We're getting
12 close here.

13 A. I really do have a ---

14 MR. RYAN: So Dr. Hodge, if you have to leave
15 immediately at noon then we will adjourn there as we
16 advised Mr. Swinwood that that was the time at which you
17 were no longer available. If you have any further time
18 that might allow Mr. Swinwood to finish today, then we
19 can do that, but it's entirely based on what your other
20 obligations are today.

21 THE WITNESS: Yeah, regrettably, I was only
22 available to noon. So if there's a decision to
23 continue, we'll need to reschedule for continuing.

24 MR. SWINWOOD: Okay. We will -- in light of
25 your commitments, we will end here. I'll take under

1 advisement whether we need to continue. I'll have a
2 conversation with Counsel later today.

3 MR. RYAN: That's fine. Thank you very much,
4 Dr. Hodge.

5 THE WITNESS: Thank you for your time.

6 MR. SWINWOOD: Thank you.

7

8 --- WHEREUPON THE VIRTUAL EXAMINATION ADJOURNED AT THE
9 HOUR OF 11:59 IN THE FORENOON.

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- and -

**ADAMSON BARBECUE LIMITED AND WILLIAM
ADAMSON SKELLY**

Applicant (Respondent on Motion)

Respondents (Moving Parties on Motion)

ONTARIO
SUPERIOR COURT OF JUSTICE
Proceedings commenced at the City of Toronto

ONTARIO'S BOOK OF TRANSCRIPTS

ATTORNEY GENERAL OF ONTARIO
Civil Law Division
Constitutional Law Branch
720 Bay Street, 4th Floor
Toronto, ON M7A 2S9

S. Zachary Green (LSO No. 48066K)
Tel: (416) 992-2327
Email: Zachary.Green@ontario.ca

Padraic Ryan (LSO No. 61687J)
Tel: (647) 588-2613
Email: Padraic.Ryan@ontario.ca

Of Counsel for the Applicant (Respondent on Motion),
Her Majesty the Queen in Right of Ontario