

Action No.: 2001-14300
E-File Name: CVQ22INGRAMR
Appeal No.: _____

IN THE COURT OF QUEEN'S BENCH OF ALBERTA
JUDICIAL CENTRE OF CALGARY

BETWEEN:

REBECCA MARIE INGRAM, HEIGHTS BAPTIST CHURCH,
NORTHSIDE BAPTIST CHURCH,
ERIN BLACKLAWS and TORRY TANNER

Applicants

and

HER MAJESTY THE QUEEN
IN RIGHT OF THE PROVINCE OF ALBERTA
and THE CHIEF MEDICAL OFFICER OF HEALTH

Respondents

H E A R I N G
(Excerpt)

Calgary, Alberta
February 22, 2022

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1 Proceedings taken in the Court of Queen's Bench of Alberta, Courthouse, Calgary, Alberta

2
3
4 February 22, 2022

Morning Session

5
6 The Honourable Justice Romaine
7 (remote appearance)

Court of Queen's Bench of Alberta

8
9 J. R. Rath (remote appearance)

For R. Ingram

10 L. B. Grey, QC (remote appearance)

For Heights Baptist Church, Northside Baptist
Church, E. Blacklaws and T. Tanner

11 N. Parker (remote appearance)

For Her Majesty the Queen in Right of the
Province of Alberta and The Chief Medical
Officer

12 N. Trofimuk (remote appearance)

For Her Majesty the Queen in Right of the
Province of Alberta and The Chief Medical
Officer

13
14
15 B. LeClair (remote appearance)

For Her Majesty the Queen in Right of the
Province of Alberta and The Chief Medical
Officer

16
17
18 M. Palmer

Court Clerk

19
20
21
22
23
24 THE COURT:

Good morning.

25
26 MR. PARKER:

Good morning, Justice Romaine.

27
28 THE COURT:

Good morning. So are we ready to proceed with

29 Dr. Bhattacharya?

30
31 MR. GREY:

Good morning, Madam Justice. It's Leighton

32 Grey. I understand that Dr. Bhattacharya is waiting in the other virtual room so the clerk
33 will just need to let him back in.

34
35 THE COURT:

Okay. Well, is there anything else we need to do

36 before we call him in? Mr. Parker?

37
38 MR. PARKER:

I don't think so at this point, Justice Romaine.

39 Thank you.

40
41 THE COURT:

Okay. Okay. Then let's go.

1
2 THE COURT CLERK: I don't see him waiting in the virtual room.
3
4 THE COURT: Perhaps, Mr. Grey or Mr. Rath, you could email
5 him and find out if there is a problem.
6
7 MR. GREY: I have a -- Madam Justice, I have a text from him
8 just now and I've asked him to -- to log in.
9
10 THE COURT: Okay.
11
12 THE COURT CLERK: He is now admitted.
13
14 THE COURT: So, madam clerk, will he show up on our screen?
15
16 THE COURT CLERK: Yes, he should, My Lady.
17
18 THE COURT: Okay.
19
20 DR. BHATTACHARYA: I apologize, Your Honour, for being late. I had
21 trouble finding the link.
22
23 THE COURT: No problem. Good morning, doctor.
24
25 DR. BHATTACHARYA: Good morning.
26
27 THE COURT: Do you understand you're still under oath?
28
29 **JAYANTA BHATTACHARYA, Previously Sworn, Re-examined by Mr. Grey**
30
31 A I do.
32
33 THE COURT: Okay. Thank you. Okay. Mr. Grey.
34
35 MR. GREY: Thank you, Madam Justice.
36
37 Q MR. GREY: Good morning, Dr. Bhattacharya. Can you hear
38 me okay?
39 A I can.
40
41 Q Excellent. Doctor, when we left off my redirect questioning of you last week, about a

1 week ago, I was asking you about a study at Johns Hopkins that had been recently
2 released. Madam Justice has made a ruling concerning that so I'm not going to ask you
3 any further about that particular study. However, I do want to draw your attention back
4 to the line of questioning that Mr. Parker had pursued with you about the Savaris study.
5 Do you recall that, sir?

6 A Yes.

7
8 Q And, in fact, Mr. Parker had -- had pointed your attention to a number of the studies
9 and authoritative scientific articles which questioned the -- the opinion that was stated
10 in the Savaris study. Do you recall that?

11 A Yes.

12
13 Q But I recall your evidence in response to that, that you were steadfast in the view that,
14 in fact, the Savaris opinion had actually, in the aftermath in the outcome, had become
15 the prevailing view. Does that -- does that accurately describe what you said?

16 A Yes.

17
18 Q Now, you're -- I expect you're aware, sir, that there were some -- some other studies
19 that were contemporaneous with the time period that the court is dealing with in this
20 application which formed a similar opinion to the Savaris study; is that true?

21 A Yes.

22
23 **Submissions by Mr. Parker (Objection - Savaris Report)**

24
25 MR. PARKER: I'm going to object. This is not proper redirect,
26 Justice Romaine.

27
28 THE COURT: Okay. Mr. Leighton -- I'm sorry, Mr. Grey?

29
30 MR. GREY: I'd like Mr. Parker to please explain the -- what
31 he has stated is not really a proper objection, just simply stating it's not proper redirect does
32 not really give me anything to respond to. Perhaps if he could expostulate a bit upon that.

33
34 THE COURT: Okay. Thank you. That's true. Mr. Parker?

35
36 MR. PARKER: Yes, Justice Romaine. I did ask about the
37 Savaris study and a retraction and documents that were the basis of that retraction. I believe
38 the clarification and explanation on that is appropriate redirect. We have now moved on
39 to questions about other studies contemporaneous with Savaris and that does not appear to
40 be directed to explaining or clarifying evidence that arose during my cross-examination of
41 Dr. Bhattacharya and so the objection is on that basis.

1
2 MR. GREY: All right. Yeah. Okay.

3
4 MR. PARKER: Sorry, I'm told I froze there. Did you hear what
5 I said, Justice Romaine?

6
7 THE COURT: You did freeze, but I think it was right at the end
8 of your comment. Mr. Grey, did you understand what Mr. Parker had said?

9
10 MR. GREY: I do, and I thank my friend for that clarification
11 and I can now respond, I think.

12
13 THE COURT: Okay.

14
15 **Submissions by Mr. Grey (Objection - Savaris Report)**

16
17 MR. GREY: Madam Justice, what I'm attempting to do is to
18 (INDISCERNIBLE) what I understood your ruling to be concern the Johns Hopkins study.
19 At that time I understood what your ruling was was that that study was admissible because
20 it was not relevant to the time period that we're dealing with for the purposes of this
21 application. I understood that Mr. Parker's objection to the admissibility of that study was
22 that it is essentially retrospective and that that study -- because that study would not have
23 been available to his client, the Alberta Government, (INDISCERNIBLE) time, that that
24 study was not relevant. Do I have that correct so far? Is that the crux of what your ruling
25 was?

26
27 THE COURT: That's correct.

28
29 MR. GREY: Okay. During the course of that, however, I
30 heard Madam Justice state that if there were other studies that were -- that were
31 contemporaneous with the time period that we were dealing with, that -- that those would
32 be relevant. I also heard Mr. Parker state during the course of his submissions, and I'm
33 quoting him roughly, that he would have no difficulty with those studies being made part
34 of the evidence and so what I'm doing here is I'm giving Dr. Bhattacharya, who is an expert
35 and the best -- in the best position to provide evidence about these studies, to be given the
36 opportunity to go back and clarify and to give evidence about these other studies that were
37 referenced in his evidence. I also want to state that Mr. Parker spent a great deal of time
38 in the course of his cross-examination of Dr. Bhattacharya on this particular point and so
39 it is very important, not only for the applicant but I think also for the Court, to have a full
40 hearing of -- of this evidence and so for the reasons stated I submit that this is proper
41 redirect of the witness. Those are my submissions. Thank you.

1
2 THE COURT: Okay. Mr. Grey, can you tell me, you say that
3 these studies that you are going to put to Dr. Bhattacharya are studies that have been
4 referenced in his report, all of them?
5
6 MR. GREY: No, they are not ones that -- they are not all ones
7 that had been referenced -- referenced in his report. They -- they were -- two of them were
8 actually ones that were referenced in the Johns Hopkins report.
9
10 THE COURT: And they were published about the time that
11 we're talking, about the time at issue?
12
13 MR. GREY: That is correct. One of them is actually, but I
14 want to cover with the witness, is the Douglas Allen (phonetic) report, which has already
15 been brought up in these proceedings. That one is from April of 2021.
16
17 THE COURT: Okay. And the other one, so we know what we're
18 dealing with.
19
20 MR. GREY: There's one -- yes. There is a study that is called
21 the impact of the COVID-19 Pandemic and Policy Responses on Excess Mortality. That
22 is a study from the National Bureau of Economic Research. The issuance date of that was
23 June of 2021.
24
25 THE COURT: Okay. Mr. Grey --
26
27 MR. GREY: And then --
28
29 THE COURT: Yeah.
30
31 MR. GREY: Sorry?
32
33 THE COURT: Go ahead.
34
35 MR. GREY: Sorry. Sorry, I didn't mean to interrupt you. I'm
36 sorry. There was one other one, only, that is from the 21st of July, 2020.
37
38 THE COURT: Okay. I'm going to allow you to ask questions
39 with respect to those three articles, but I'm going to allow Mr. Parker to respond to them
40 because they don't fit clearly in the category of redirect but, given the comments that were
41 made previously, I'm going to allow you to do this.

1
2 MR. PARKER: Sorry --

3
4 MR. GREY: (INDISCERNIBLE)

5
6 MR. PARKER: -- can I ask a question, Justice Romaine? The
7 comments made previously, are those my comments or whose comments are we -- are you
8 referring to?

9
10 THE COURT: I believe that Mr. Grey suggested that I made
11 comments that other studies that were contemporary (sic) would be relevant and that you
12 had responded that you had no difficulties with these orders. That's what Mr. Grey has
13 advised me.

14
15 MR. PARKER: And I'm not sure that --

16
17 THE COURT: With those studies.

18
19 MR. PARKER: -- that's an accurate description of what I said.
20 We did take issue with the relevance of a study released after the second and third waves.
21 If the objection here -- my friend has dealt with relevance and said, Well, these studies are
22 relevant because they came out during the relevant time period, the first, second or third
23 wave, but that, with respect, doesn't deal with the issue of putting in new studies on redirect.
24 He's referred to the Douglas Allen paper or study and that being in evidence, my
25 recollection is he put the abstract of that study to Mr. Long and indicated that he should
26 adopt it, which you then interjected. The NBER study he referred to has been sent to us
27 this morning by Mr. Rath's office indicating that they wish to put that study to Dr.
28 Bhattacharya in redirect and then there was reference to a July 21, '20 study and that may
29 be another one of the papers we received from Mr. Rath this morning. He sent three new
30 papers that I understand are not in evidence and he wishes to put to Dr. Bhattacharya on
31 redirect. And so while we dealt with relevance of the Johns Hopkins paper because of the
32 timing of that paper relative to when the impugned orders are challenged and while these
33 papers could have been relevant if they had been put in the evidence of Dr. Bhattacharya,
34 either in his primary report or in his surrebuttal report on July 30th if it was appropriate,
35 again the objection is that putting in new evidence, new studies in redirect is not appropriate
36 and so I just wanted to be clear that that was the basis of the objection. Thank you.

37
38 MR. RATH: My Lady, if I may. This is Mr. Rath -- this is Mr.
39 Rath speaking.

40
41 THE COURT: M-hm.

1
2 **Submissions by Mr. Rath (Objection - Savaris Report)**
3

4 MR. RATH: The studies were not sent by our office this
5 morning, they were sent by Mr. Grey's office this morning. But with regard to my friend's
6 objection, I'd like to speak to it briefly because it's also going to impinge on the redirect
7 that we intend to do, so there's no reason not to deal with -- have to deal with the same
8 (INDISCERNIBLE). One of (INDISCERNIBLE) we'll be putting these studies or
9 referring to these studies to Dr. Bhattacharya is that my friend Mr. Parker was extremely
10 aggressive in his cross-examination of Dr. Bhattacharya with regard to the Savaris study
11 and the degree to which Dr. Bhattacharya had allegedly misrepresented himself to the
12 Court in the context of his evidence insofar as he didn't indicate to the Court that the Savaris
13 paper had been retracted, et cetera, et cetera. Clearly, to the extent that all of these studies,
14 in effect, agree with the Savaris study and completely put the Savaris study into the
15 mainstream as opposed to scientific evidence that has somehow been retracted or outside
16 of the scope of actual scientific evidence and as it goes to Dr. Bhattacharya's credibility,
17 which my friend aggressively and insultingly attacked through his cross-examination, it
18 would be our submission that all of these papers, in fairness to the witness, need to be put
19 to the witness given the line of attack and line of questioning by Mr. -- that my friend Mr.
20 Parker subjected Dr. Bhattacharya to. Those would be our submissions. Thank you.
21

22 **Ruling (Objection - Savaris Report)**
23

24 THE COURT: Okay. I agree that new studies are not
25 appropriate for a re-examination, however, these studies appear to be directly connected to
26 the issue of the Savaris study and the fact that it had been retracted so I am going to allow
27 the questions on these three articles specifically. I am not opening the door to wide-ranging
28 presentation of new studies that were not part of Dr. Bhattacharya's study report by making
29 this determination. And I am also going to give Mr. Parker a chance to respond to it. Okay.
30

31 MR. PARKER: And, sorry, the response will be for the cross-
32 examination --
33

34 THE COURT: Yes.

35
36 MR. PARKER: -- as a result of --
37

38 THE COURT: Yes.

39
40 MR. PARKER: -- this redirect? Okay.
41

1 THE COURT: Yeah.

2

3 MR. PARKER: And I understood, Justice Romaine, that this isn't
4 evidence that's going in to buttress the earlier evidence of Dr. Bhattacharya in regard to the
5 Savaris study, but you've indicated that you're letting these studies in in redirect for
6 questions because, as I understood, you said they are directly connected, these papers are
7 directly connected to the issues in the Savaris study? I just wanted to --

8

9 THE COURT: No.

10

11 MR. PARKER: -- make sure I understood.

12

13 THE COURT: No. Because they are connected to the cross-
14 examination relating to the status of that study and the fact that it had been retracted.

15

16 MR. PARKER: Well, and I -- I just -- to the extent that my friends
17 are saying these are papers that relate to that retraction, that is not correct. I put my -- I put
18 to Dr. Bhattacharya the papers that were footnoted in that retraction and predated the
19 studies that were footnoted in that retraction criticizing Savaris and so, if my friends are
20 saying that these papers that they've identified deal directly with the issues raised in --
21 criticisms raised about Savaris, then that's not my understanding. I'm going to just listen
22 very carefully and there will likely be further objections if their questions go beyond what
23 I envisioned your ruling is because I just don't think, with respect, that -- that these papers
24 are directly connected to the reason that Savaris was retracted.

25

26 MR. RATH: And, My Lady, if it helps my friend, my -- my
27 response to his objection goes directly to my friend's aggressive attack on Dr.
28 Bhattacharya's credibility and I think it's appropriate that Dr. Bhattacharya be allowed in
29 redirect to refer to studies that both support his opinion and the Savaris study given my
30 friend's aggressive assault on the good doctor's credibility and --

31

32 THE COURT: Well --

33

34 MR. GREY: My Lady, may I try -- (INDISCERNIBLE)

35

36 THE COURT: Yes, go ahead, Mr. Grey.

37

38 MR. GREY: I beg your pardon.

39

40 THE COURT: Go ahead.

41

1 MR. PARKER: Go ahead, Mr. Grey. I wanted to respond to -- to
2 Mr. Rath. Go ahead, Mr. Grey.

3
4 MR. GREY: Well, go ahead, Mr. Parker. I don't want to cut
5 you off. Go ahead, finish your thought.

6
7 MR. PARKER: No, no, you go ahead, sir, please.

8
9 MR. GREY: My Lady, what I'm hearing from Mr. Parker is an
10 objection to the ruling that you made on his original objection. We're going to get awfully
11 bogged down if that's the way we're going to proceed here. I think what I'd like to be able
12 to do is simply proceed with the line of questioning and, if Mr. Parker has further
13 objections, he can bring those to the Court's attention and we'll deal with them as we go.
14 That's what I would suggest, respectfully.

15
16 THE COURT: Yeah. I agree, Mr. Grey, let's go with respect to
17 these papers and Mr. Parker will have an opportunity to cross-examine on them.

18
19 MR. GREY: Thank you.

20
21 MR. PARKER: Sorry, can I just -- and not to belabour this but,
22 again, the -- the scope of the redirect on these papers, Justice Romaine, I wanted to
23 understand it because I don't want to object unnecessarily, but I'm -- I want to understand
24 the basis that these papers are being put to this witness in redirect. If I could just seek to
25 get clarification on that, please.

26
27 THE COURT: Okay. Mr. Grey, my understanding is that this
28 relates to the retraction of the Savaris study in that these are papers that support the theory
29 of the retracted study just to indicate that there are other studies out there that were not
30 retracted. Is that basically what you're trying to accomplish?

31
32 MR. GREY: Yes. And just so it's clear, Madam Justice, the -
33 - the thrust of the cross-examination that Mr. Parker had pursued was, firstly, to -- we spent
34 a lot of time on the point that Dr. Bhattacharya had made, at one point he had said that this
35 was the best study he had seen on this particular topic and -- and then Mr. Parker spent a
36 lot of time showing Dr. Bhattacharya that -- that -- he made the point that the Savaris study
37 had been retracted and then other studies were put to Dr. Bhattacharya in attempt to have
38 Dr. Bhattacharya adopt the idea that the Savaris study was incorrect. And so this is the
39 point, is that in -- in -- to a large degree that I submit misled -- is misleading evidence and
40 it's a point that I think ought to be clarified and it, therefore, is a subject of proper redirect.
41 So that's my purpose is to give Dr. Bhattacharya a full opportunity to clarify his evidence

1 on this point given the way that that evidence was put to him by Mr. Parker. I hope that
2 clarifies the issue.

3
4 MR. PARKER: And my response would be, if you go to the
5 papers that are mentioned in the retraction of Savaris, then that would be appropriate. If
6 there -- but these are -- this is putting in new evidence through redirect on a subject that
7 doesn't need explain or clarifying. These papers existed at the time of the primary and
8 surrebuttal report. They could have been entered along with that report, along with the
9 other studies that were referenced, but the doctor chose not to do so. He chose to put in
10 Savaris, referring to it as another study, knowing that there were issues in terms of
11 criticisms at the time. In any event, I've -- I've put the respondents' position on the record
12 and we will object as appropriate, Justice Romaine. Thank you.

13
14 THE COURT: Okay. Thank you. Go ahead then, Mr. Grey.

15
16 MR. GREY: Thank you, Madam Justice.

17
18 **JAYANTA BHATTACHARYA, Previously Sworn, Re-examined by Mr. Grey**

19
20 Q MR. GREY: Dr. Bhattacharya, I'd like to refer you firstly to
21 the Douglas Allen study. Have you read that, sir?

22 A Yes, sir.

23
24 Q It is, in fact, referenced at page 8 of the applicants' materials, the responding brief of
25 the applicants that was filed with the court September 21st of 2021 at paragraph 31.
26 Could you, Dr. Bhattacharya, describe for the Court what your understanding
27 (INDISCERNIBLE) that the thrust or the crux of that study, the Allen study?

28 A So the -- the Allen study is a -- is a study that was put forward by a professor at Simon
29 Fraser University, a distinguished economist as I understand. He reviewed a large
30 number of papers on -- on the effects of lockdowns in terms of the mortality, saving --
31 the extent to which they save -- save lives regarding COVID, as well as some of the
32 collateral harms from -- from the lockdowns in terms -- in terms of the public health
33 effects of them, including a wide range of outcomes. The final conclusion from that
34 study is that the lockdowns were -- that were implemented in the -- in the early days of
35 the pandemic were not particularly effective in saving lives though and had enormous
36 public health consequences, negative health consequences. The -- the -- it's -- the paper
37 is not a traditional meta-analysis, although I think it's a -- it's a fine paper. What it's
38 primarily doing is looking at this -- this large literature, increasingly -- increasingly
39 large literature and attempting to lay a framework of thinking about how to evaluate the
40 papers in it and then doing an analysis of the existing papers at the time and where they
41 fit. The results are consistent with the Savaris study in terms of the effects of -- of

1 lockdowns on -- on mortality for COVID-19 as well as large other -- large literature
2 that's come on since the Savaris study as reviewed in, for instance, that Hopkins paper
3 we've been assessing.

4
5 Q Thank you. Dr. Bhattacharya --

6
7 MR. PARKER: Sorry, I'm going to again object on the same
8 basis. This just confirms that this has nothing to do with clarifying or explaining the
9 criticisms and the retraction of the Savaris study, rather, it is an attempt to put in new
10 evidence, new studies that simply come to the same ultimate conclusion as the Savaris
11 study does on the effectiveness of NPIs. So, again, the objection is consistent with what I
12 said before. This is not appropriate evidence -- appropriate questioning for redirect.

13
14 MR. GREY: Madam Justice, may I respond?

15
16 THE COURT: No, you don't have to, Mr. --

17
18 MR. GREY: Or do you need to hear from me? Okay.

19
20 THE COURT: No, I don't have to hear from you, Mr. Grey.
21 Thank you, Mr. Parker, for putting your position on the record again, but I'm going to stand
22 by my decision to allow limited re-examination on these three papers. Go ahead, Mr. Grey.

23
24 MR. GREY: Thank you.

25
26 Q MR. GREY: Dr. Bhattacharya, the next paper I'd like to draw
27 your attention to is a paper entitled Evaluating the Effects of Shelter in Place Policies
28 During the COVID-19 Pandemic. Are you familiar with this study, sir?

29 A Yes, I am.

30
31 Q I see that it was approved on February 24th of 2021. It was received for review on
32 September 18th, 2020. Is that your understanding, sir?

33 A I'd have to look at the -- the -- okay.

34
35 Q It's -- it's on the screen now, sir. Can you see it?

36 A Oh, yes. Yes, I see it. Yes.

37
38 Q All right. And so have you read this study?

39 A I have, yes.

40
41 Q Okay. Could you tell us, in essence, what -- what the crux of this study -- what it tells

1 us?

2 A So this is a study that was published in the proceedings of the National Academy of
3 Sciences, a very prestigious journal. It's -- it's, again, written by some very senior
4 authors. The -- the study looks, again, at the -- the evidence that the shelter in place
5 orders that were put in during the first wave of COVID-19, whether that correlated with
6 -- with outcomes like mortality from COVID-19 and as well as some other outcomes.
7 Like the Savaris study and like other -- other studies that have looked at this carefully
8 with the (INDISCERNIBLE) methods that -- that are appropriate, I think, they find no
9 correlation between the implementation of these lockdown orders and mortality and,
10 particularly, there's no -- it's very difficult, they conclude, just to -- to say with any
11 confidence that -- that they -- that the shelter in place orders led to reductions in -- in
12 mortality. And then they -- then they have some good -- some good evidence about
13 why that might be the case and, in particular, they say that -- that the shelter in place
14 orders had an uneven effect on society. While some people can abide by them, you
15 know, because they don't lose their jobs by staying at home, others cannot and, in fact,
16 mobility has a very -- the shelter in place orders have a very different effect on mobility
17 depending on the -- the situation of individuals that are -- that are affected and so that's
18 why they speculate there wasn't large correlation between the shelter in place orders
19 and mortality rates.

20

21 Q Thank you.

22

23 MR. PARKER: Justice Romaine, can I enquire whether -- and
24 I'm sorry to interrupt, but we're now putting in new studies that were not in evidence and
25 I'm told that I'll get a chance to cross-examine on these, but I'm wondering as I hear this,
26 because again my objection was this doesn't go to the reasons for Savaris being retracted,
27 there's no explanation and clarification being sought on that issue, instead we're putting in
28 new studies into evidence and in addition to the right to cross-examine on this, I'm going
29 to raise will we have the opportunity to also put in further evidence of this nature?

30

31 THE COURT: Okay. Mr. Grey?

32

33 MR. GREY: Well, actually, My Lady, Mr. Parker has already
34 done that. They've already submitted a Madewell -- the second Madewell study. That was
35 put to the witness on cross-examination. That study as -- it is retrospective in the same
36 sense that the John Hopkins one -- Johns Hopkins one is because it was published outside
37 of the timeframe that this Court has specified at the scope of the hearing. We had never
38 seen that study, it was never provided to us before Mr. Parker cross-examined on that and
39 Mr. Parker has put us on notice that he intends to attempt to have that study entered as a
40 full exhibit in these proceedings.

41

1 In answer to his -- to his question, we would -- I can't speak for Mr. Rath, but I would not
2 object to putting into evidence of any relevant study if -- if it assists the Court in making a
3 proper determination. My interest, as I've said previously, is putting the best evidence
4 before the Court in order to -- to find the truth and that's what I see is the purpose of this
5 trial. And so I hope that that responds adequately to the objection, but if -- if there are
6 additional questions you have for me on that point, I'm pleased to answer them.
7

8 THE COURT: Mr. Parker?

9
10 MR. PARKER: In terms of the Madewell study -- the Madewell
11 second study, that was an updated study of one of the key studies in Dr. Bhattacharya's
12 report, the study that said he -- that he has said cinched his changing view on asymptomatic
13 and presymptomatic transmission and cinched what he said was the correct view that risk
14 of transmission was very low, close to zero. It stands very separate, that is the Madewell
15 second study, in terms of the issues and the timing. It stands very separate and apart from
16 what is happening here, which is my friend has rounded up several more studies from the
17 relevant time dealing with the effectiveness of NPIs. That evidence should have been put
18 in during the primary and, if appropriate, surrebuttal reports of Dr. Bhattacharya, they were
19 not and, again, they're clearly being put in for the ability to argue that, although Savaris
20 was retracted, here's some more studies that were not retracted and support the overarching
21 idea of the applicants that NPIs are not effective in reducing mortality. So, again, the
22 Madewell study we can deal with as appropriate, the Madewell second study. We say it
23 should clearly go in. It completes the arc of Dr. Bhattacharya's testimony on this critical
24 point and, indeed, we have said he has time to review that study and can appropriately
25 review it and comment on it during these proceedings. But, again, simply putting in further
26 studies that could have been put in in earlier evidence to buttress the earlier evidence is not
27 appropriate in redirect and, if we're now, as my friend says, in a place where we're going
28 to put in new evidence so the best evidence is before you, then that destroys the whole basis
29 of the original procedural order that was hammered out over three meetings with Justice
30 Kirker which put in place the timeline for filing evidence by the parties in this proceeding.
31 So, again, the concern is that we're putting in new evidence and I ask the question will we
32 be allowed to put in new evidence in response. My friend says he doesn't take issue with
33 that, but I'm saying, well, the problem with that is where does that leave us, we're opening
34 up the proceeding as a result of this?
35

36 THE COURT: First of --

37
38 MR. RATH: May I response, My Lady?

39
40 THE COURT: No.
41

1 MR. RATH: Sorry, go ahead.
2
3 THE COURT: I'm sorry. First of all, I have no intention of
4 opening up the proceeding to new papers and articles that have not been listed in the
5 specific expert reports of the expert.
6
7 MR. RATH: My Lady, this -- this is Mr. Rath --
8
9 THE COURT: Mr. Rath, I'm not --
10
11 MR. RATH: -- (INDISCERNIBLE) ask my --
12
13 THE COURT: Mr. Rath, I'm not finished, please. Okay.
14
15 MR. RATH: My Lady, this is Mr. Rath --
16
17 THE COURT: Mr. Rath, I'm not finished.
18
19 MR. RATH: -- (INDISCERNIBLE) approximately every
20 second word (INDISCERNIBLE)
21
22 THE COURT: Oh, so you can't hear me? Is that the problem,
23 you can't hear me?
24
25 MR. GREY: I can hear you just fine, Madam Justice. I'm not
26 sure --
27
28 MR. PARKER: I can hear you fine, Justice Romaine.
29
30 THE COURT: Okay.
31
32 MR. PARKER: Thank you.
33
34 THE COURT: Okay. The reason that I allowed these three
35 articles to be put to the witness was because of submissions made to me --
36
37 MR. RATH: (INDISCERNIBLE) My Lady, we're having a
38 connection issue here. I'm not trying to interrupt you.
39
40 THE COURT: No. Okay. So you can't hear me?
41

1 MR. RATH: (INDISCERNIBLE) connection issue
2 (INDISCERNIBLE) every second word, My Lady, and I heard only about half of what Mr.
3 Parker said. I don't have video (INDISCERNIBLE) That's correct, My Lady.
4
5 THE COURT: Okay. Well, both Mr. --
6
7 MR. RATH: And I only got ...
8
9 THE COURT: Both Mr. Parker and Mr. Grey can hear me, I
10 understand, just fine. So that makes me think that the problem is on your side, Mr. Rath.
11
12 MR. RATH: Every second word, My Lady. And we don't
13 have video for anybody else, including the Court. We have little triangles in the corner of
14 everybody's ...
15
16 MR. PARKER: If my friend Mr. Rath has the little yellow
17 triangles in the corner, I think that's a bandwidth issue at his end is my understanding.
18
19 THE COURT: Hm.
20
21 MR. RATH: Can we try logging out and logging back in, My
22 Lady --
23
24 THE COURT: Yes.
25
26 MR. RATH: -- just to try to rectify the problem. I have our --
27
28 THE COURT: Yeah.
29
30 MR. RATH: -- technician with me right now.
31
32 THE COURT: Yeah, go ahead.
33
34 MR. RATH: Can you hear me?
35
36 THE COURT: Yes.
37
38 MR. RATH: Hello?
39
40 THE COURT: Yes.
41

1 MR. RATH: If we can log out and log back in, My Lady, that
2 might help.

3
4 THE COURT: Go ahead.

5
6 MR. RATH: Our apologies, My Lady. It appears that we're
7 back. Thank you.

8
9 THE COURT: Okay. Thank you. Okay. What I was saying is
10 that I have no intention of opening up this hearing in cross-examination or redirect to new
11 studies that have not been cited in the expert report, but I did so in this particular case
12 because from what was said to me by Mr. Grey, I believe that these articles would have a
13 connection to the retracted Savaris study. If in fact they don't, then they won't have any
14 relevance to me ultimately so that can be a part of argument. Because of the fact that they
15 are new, I have also said that I will allow Mr. Parker to cross-examine on them. So can we
16 just continue on that basis?

17
18 MR. GREY: Thank you, Madam Justice.

19
20 THE COURT: Okay.

21
22 Q MR. GREY: Dr. Bhattacharya, can you still hear me okay?

23 A I can.

24
25 Q All right. I'd like to refer you next, sir, to a study called The Impact of the COVID-19
26 Pandemic and Policy Responses on Excess Mortality. This one is issued on the -- in
27 June of 2021. This -- is this a study that you're familiar with, sir?

28 A Yes.

29
30 Q Okay. Could you please comment on this one in the same context I asked you about
31 earlier, that is in terms of the Savaris study and your views about the effectiveness of
32 NPIs?

33 A Sure. So this is a study by -- again, by an experienced team, including a dean at the
34 University of Southern California. It's a frequent (phonetic) study, it was published in
35 -- in the National Bureau of Economics Research working paper series, which you're
36 only allowed to publish in if you're an invited member of the National Bureau of
37 Economics Research. The study looks at the correlation between shelter in place orders
38 in -- again, in the first wave and excess mortality, which is all cause deaths, not just
39 simply COVID-19 deaths. It -- it -- the analysis looks both at the country level of a
40 very large number of countries as well as at the state -- US state level. The primary
41 finding of the study is that there is no correlation, again, between the -- the imposition

1 of (INDISCERNIBLE) excess mortality, in fact, to the extent that there is a correlation,
2 it seems to -- that the imposition of these orders actually increased mortality.

3
4 Q Thank you, sir. Sir, the -- the last study that I want to draw your attention to was
5 published in -- on the 21st of July, 2020 and it's entitled A Country Level Analysis
6 Measuring the Impact of Government Actions, Country Preparedness and
7 Socioeconomic Factors on COVID-19 Mortality and Related Health Outcomes. Are
8 you familiar with this study, sir?

9 A Yes.

10
11 Q Okay. So could you please comment on this study in the same context as my previous
12 question?

13 A Sure. So this is a study that -- early study that attempted to address what factors might
14 correlate with why some countries had high COVID-19 mortality and why other
15 countries did not. So it's -- it's an exploratory study, a correlational study. The primary
16 outcomes of the study -- the primary (INDISCERNIBLE) of the study included a wide
17 range of factors that were hypothesized at the time as having important explanatory
18 power for why -- why some countries did worse than others. The -- the -- one of the
19 incidental results from this paper is that the shelter in place orders and the stringency
20 of the -- of these shelter in place orders had no correlation with the outcomes in terms
21 of the mortality of -- of COVID-19 outcomes, whereas demographic factors like -- like
22 age and comorbidities actually did have some correlation with -- with COVID-19
23 outcomes.

24
25 Q Okay. So how do, in your -- or do the -- the findings of this particular paper correlate
26 with what was in the Savaris study?

27 A I think all of these studies correlate strongly with the results of the Savaris study. They
28 corroborate the result and find the same -- they differ in quality, for instance, I think
29 this particular paper, this Chaudhry paper, is -- is not as high quality as the Savaris
30 study, whereas some of the other studies I think at this point I'd say are -- are at least as
31 good as the Savaris study, if not better, with more sophisticated methods. This -- this
32 particular study is an early study. The striking thing is that these studies find -- have a
33 very difficult time documenting any correlation whatsoever between the shelter in place
34 orders and COVID-19 mortality outcomes.

35
36 Q Thank you, sir. Dr. Bhattacharya, you were presented with a series of questions from
37 Mr. Parker under cross-examination about a number of papers that seem to present
38 consistently the same authors. I have these as Meyerowitz-Katz, Flahault and
39 Besancon. I had the impression, and I'd like you to comment on this, sir, that -- that
40 this was in the context of a rather raging intellectual debate between one -- one scientific
41 camp and -- and another. Could you -- could you comment on that, please?

1 A Yeah. I mean I think -- I think that -- that the -- the scientific literature on the -- the
2 effects of COVID-19 policies like lockdowns on outcomes has generated quite a bit of
3 controversy in the scientific literature. And then you characterize as camps, I think
4 that's -- that's fair, that there are -- there are scientists on one side who very strongly
5 believe, I believe have prior beliefs, that COVID-19 restrictions have lifesaving effects
6 and other scientists who, looking at the evidence, disagree. And so what -- what we're
7 talking about, really, is a major scientific fight over the effects of these COVID-19
8 orders, these lockdowns, on -- on outcomes. I characterized it, I think, during the cross-
9 examination as substantively is a fight between people who tend to prefer looking at
10 modelling kind of actuals, that is looking at models and saying, Okay, here's how many
11 people would have died if -- what the model implies if we had not done the lockdown,
12 and then attributing whatever real (phonetic) outcomes to that -- to that versus real
13 world kind of actuals. And so what you're seeing is, essentially, is like a skirmish in
14 that fight where some people will -- some people on one side will -- will say, Okay, this
15 study doesn't -- isn't particularly high quality, that side isn't particularly quality on one
16 side, whereas -- but the major fight is between the modelling kind of factuals and the -
17 - the people who prefer the modelling kind of factuals, the people who prefer the real
18 world kind of factuals. The -- my reading of the literature on the real world kind of
19 factuals is it does not support in broad -- you know, broad strokes the idea that these
20 shelter in place orders save lives.

21
22 Q In your experience, is this type of fulsome academic debate among scientists at all
23 unusual?

24 A It's -- I mean, over -- over controversial issues, it's very, very common. What's not
25 common is -- is the -- the demand for retractions and other things like that when --
26 which (INDISCERNIBLE) disagree with is modelling choices or choices by
27 econometric methods around it, that's unusual.

28
29 Q During the course of cross-examination, Dr. Bhattacharya, you were asked about
30 infections and cases. I wonder, could you please clarify the clinical distinction between
31 infections and cases in the context of COVID-19?

32 A Sure. So an infection is somebody who has the virus that is -- that is in them and it may
33 or may not cause symptoms. It may or may not lead to outcomes for the patient that
34 they -- that they perceive. A case is -- is somebody who, in my view, has shown up and
35 been identified, either by a medical -- in a medical setting or in a public health setting,
36 as somebody who has COVID-19, or has COVID-19 disease, rather.

37
38 Q Okay.

39 A Just -- just to clarify, that means that there may be people who are infected who never
40 show up -- the attention of public health authorities or -- or medical -- medical folks, so
41 they're infected but not a case, not counted as a case, whereas basically everyone who's

1 a case is presumably infected.

2
3 Q Thank you. You were asked during cross-examination, you were -- a study was put to
4 you that we've called the second Madewell study. Do you recall that, sir?

5 A Yes.

6
7 Q Okay. And in the course of that, my notes indicate there was mitigation in there that -
8 - that there was a percentage of 20.2 for symptomatic individuals. Do you recall that?

9 A Yes.

10
11 Q I'm not clear, though, however, based on one of the questions precisely what that
12 number means. Could you please clarify that for me?

13 A Sure. So my understanding of that number, which is consistent with the first Madewell
14 study as well, is that among the people who in contact tracing studies were identified
15 as cases. The -- the contact tracing studies looked at people in the same -- living in the
16 same household. Now, they were not just simply cases, but cases that had -- showed
17 symptomatic disease, people who had symptoms that are consistent with COVID-19.
18 And the 20.2 number is what fraction of the -- in those cases did it -- what -- did it result
19 in family members living in the same household also becoming sick with COVID-19,
20 that's one -- roughly one in five.

21
22 Q And there was also a number that was put to you from that study about asymptomatic
23 cases and there was a range of 3.0 to 3.9 percent. Could you clarify what those numbers
24 mean in the context of that study?

25 A Sure. So that -- in the context of that study and in the update -- in the original study it's
26 the same, same concept. The question is, among the set of people who are identified as
27 having COVID-19 but having no symptoms consistent with COVID-19 other than the
28 -- the presence of the virus as detected presumably by a lab test, the -- what fraction of
29 the time do other members of the household become sick with COVID-19 or become
30 infected with COVID-19. And so the original study found that it was .7 percent in the
31 -- based on the -- these contact tracing studies. The update added in some more studies
32 that were published in between and that number went from 1 to -- either 3 or 3.9. I'm
33 still actually not clear exactly on the distinction between those two numbers in the
34 study, but somewhere in that range, presumably because, you know, the -- the studies
35 that they added in in between had higher rates than the .7 percent in the original study.

36
37 Q So in your view, does the second Madewell study -- does that represent a significant
38 difference or disparity between the -- the original study?

39 A No. I think the key outcome is the same. There's a large difference between the -- the
40 probability of passing the disease on to somebody in the same household if you are
41 symptomatic than if you're asymptomatic. In the original study, it was 18 versus .7

1 percent and in the updated study is 20 versus, you know, 3 or 3.9 percent.
2 Asymptomatic individuals are still quite unlikely to pass on the disease to -- to an
3 individual in the same household according to the updated study. One -- one thing
4 about that updated study that's important is that it includes -- it includes studies that
5 happened during later waves so it's possible and, you know, seems likely explanation
6 for why you see this -- this .7 versus .3, which is -- is not a very large difference,
7 actually, but that -- that later variants might have been more transmissible than the
8 previous variants. But, as I said, I think for instance that the omicron variant is much
9 more transmissible.

10
11 Q You had -- you had mentioned, sir, in answer to Mr. Parker's questioning, expressed a
12 view that COVID policies should be specifically aimed at protecting the most
13 vulnerable. Do you recall that, sir?

14 A Yes, sir.

15
16 Q And I recall you saying -- you describing this as a terrible pandemic.

17 A Yes. Yes.

18
19 Q And that was in the context, I believe you said that, really, there's no way to prevent all
20 risk of harm to everyone in the population.

21 A Yes. That's accurate.

22
23 Q But you also said something that I don't think was fully clarified under cross-
24 examination and that is you said that -- that COVID-19, and NPIs in particular, are --
25 most adversely impact the poor. Was that your evidence?

26 A Yes.

27
28 Q Could you please clarify that -- that answer? Why is -- why is that your opinion?

29 A So it's twofold and I think it's different for developing versus developed countries. In -
30 - in developing countries, the impact of -- of NPIs in places in richer parts of the world,
31 including Canada, had an impact on -- on the economies of these poor countries. It's
32 linked, in my mind, because the -- the economies of poor countries depends on the
33 proper functioning of economies of -- of richer countries. One consequence of this is
34 that the -- according to, for instance, the World Bank, tens of millions of people are
35 now in dire poverty that would not have been but for some of these policies. There --
36 there's evidence, for instance, by a UN report that hundreds of thousands of children
37 are dead from starvation in poor countries as a consequence, again, of the -- of the
38 economic damage caused by the adoption of very stringent -- very stringent NPIs and
39 very stringent lockdown policies by -- by western countries. So -- so in that sense, it's
40 -- it's the poor of the -- of the -- in poor countries that are the worst hit.

41

1 In -- in developed countries as well, the people who are best able to -- to cope with the
2 -- the harms of the lockdown are people whose -- don't lose their jobs if they -- if they
3 don't lose -- they don't lose their jobs as a consequence of the lockdowns. Those are
4 people, generally, that are richer, that can replace their jobs in -- you know, in the
5 workplace with work from home, whereas the poor members of society, working class
6 tend not to be. Just if you -- and as a result, it's poor people in places that had lockdowns
7 that have -- that suffer and die from COVID-19 at higher rates. For instance, there's
8 evidence from -- in Toronto that the richer neighbours of Toronto had a substantially
9 lower -- during the first and second waves, had much -- substantially lower death rates
10 from COVID-19 than residents of Toronto in richer -- in poorer neighbourhoods.

11
12 Q So is it your evidence then that the NPIs that place restrictions upon the public,
13 generally, don't do much to protect the most vulnerable? Is that -- does that sum up
14 your point on this --

15 A Yes.

16
17 Q -- picture?

18 A I think -- I think the -- the idea that NPIs by -- NPIs and shelter in place orders and the
19 other lockdown orders are protective on the -- the most vulnerable from the disease, I
20 think the evidence belies that, that we've seen enormous, you know, some 70, 80 percent
21 of the deaths have happened among people that over the age of 80 despite these shelter
22 in place orders. And so it's -- and so -- I'm sorry, over the age of 65 despite these shelter
23 in place orders. And so the idea that shelter in place orders can somehow protect
24 everybody is just not true. The -- the theory is that you can use them to suppress the
25 transmission of the disease and -- and slow it down, that may be (INDISCERNIBLE) I
26 don't -- I don't actually believe that's true, but the idea that they are effective in
27 protecting the vulnerable is false and, in fact, in terms of the collateral harm they do,
28 they -- they actually I think cause harm to the vulnerable.

29
30 Q Thank you, sir. Mr. Parker had asked you about vaccines and I recall your evidence
31 being that the vaccines do not stop disease transmission in the context in COVID-19.
32 Was that your evidence, sir?

33 A Yes, sir.

34
35 Q Okay. And in this context you had given the evidence -- the opinion that, for example,
36 closing schools does nothing to reduce the risk to the most vulnerable populations. Is
37 that your evidence?

38 A Yes. That's my evidence.

39
40 Q The question I want you to clarify, though, doctor, is in the context of comorbidities
41 you talked a lot about age being a significant risk factor, but -- and I know this may be

1 difficult, but when you're weighing comorbidities as a risk factor versus age, which is
2 the -- which is more significant or are they -- or are they equal? Could you -- could you
3 clarify that point?

4 A Sure. Age is the single most important comorbidity that matters. Roughly speaking,
5 for every 7 years of age, the infection fatality rate doubles and so the risk of dying from
6 COVID is -- increases exponentially with age. So, you know, if someone is 50 versus
7 someone who's 57, the 57 year old will have double the risk of dying if they're infected.
8 The -- the effect of comorbidities like obesity and diabetes have also increased the risk
9 of dying with -- with COVID, but not as steeply as age. So, for instance, someone
10 who's obese or morbidly obese, roughly speaking, it's as if they -- they -- their -- they've
11 aged 7 years, so it's -- you know, their risk will double. But the -- but the, you know,
12 64 year old thin person will have roughly the same mortality rate as someone who's 57
13 and -- and obese. Right. So it's -- it -- the comorbidities matter, but they don't matter
14 as sharply as age does. Age is the single most important risk factor and there's a reason
15 why -- it's the reason why such a large fraction of the deaths had been among people
16 who were older.

17
18 Q And -- and is that why it's your opinion that NPIs or any measure to prevent death,
19 morbidity --

20
21 MR. PARKER: Objection. Leading.

22
23 MR. GREY: Can I finish the question, please, Madam Justice?

24
25 THE COURT: Yes. Finish the question, please.

26
27 MR. GREY: Thank you.

28
29 Q MR. GREY: Dr. Bhattacharya, is -- is that why, what you just
30 said, is that why you've given the opinion that NPIs need to focus upon the most
31 vulnerable members of the population?

32 A Yes. I think that --

33
34 MR. PARKER: Objection. Leading.

35
36 THE COURT: Please, doctor. Mr. Parker?

37
38 MR. PARKER: The objection was it's a leading question. It's not
39 (INDISCERNIBLE) for question in redirect examination.

40
41 THE COURT: It certainly is a leading question. Mr. Grey?

1
2 MR. GREY: It was -- it was summarizing his earlier evidence,
3 though, My Lady, on a crucial point and the question does not suggest the -- does not
4 suggest the answer. It's perfectly open to the witness to -- to give an answer that's contrary
5 to what is stated in the question. I was simply summarizing his earlier -- his earlier
6 evidence and trying to clarify a point that was made under cross-examination.
7

8 THE COURT: Okay. Mr. Grey, could you please try to reword
9 your question so that it is not as leading?
10

11 MR. GREY: Certainly.
12

13 Q MR. GREY: So, doctor, based upon your -- your previous
14 answer, is it your view that NPIs need to be focussed upon the most vulnerable
15 populations --
16

17 A Yes.
18

19 Q -- members of the population?
20

21 A Yes, I do. I think that -- that the most vulnerable are people with -- who are older and
22 certain -- maybe some certain members of the younger population who have a
23 confluence of chronic conditions that really do expose them to high risk if they're -- if
24 they're infected. I think that's a limited number relative to the older population. Public
25 health resources are -- are finite, the attention of the public is finite and by disbursing
26 public health attention to low yield items (phonetic), in effect it -- it's -- there's
27 opportunity costs in terms of harming older people and other people with -- with chronic
28 diseases predisposed with bad outcomes by not protecting them. In particular, the idea
29 that suppressing community spread automatically protects these older populations is
30 just not true and so that's -- that's why I very strongly support protection -- the
31 concentration of resources in protecting the most vulnerable people who are most likely
32 to die if they're infected.
33

34 Q Thank you, doctor. In the course of your questioning by Mr. Parker, you had given the
35 evidence, as I -- in my notes it indicates that it's your opinion that extending lockdowns
36 has actually prolonged the process toward what was described as equilibrium, which
37 appears to be synonymous with herd immunity. Is -- is -- could you clarify that? Is
38 that what's meant by the term equilibrium in that context?
39

40 A Yes. So the -- what herd immunity looks like in the context of COVID-19 is similar, I
41 think, to what herd immunity looks like in the context of the other coronaviruses. It
42 doesn't -- in equilibrium here doesn't mean that the virus goes away, it doesn't mean
43 that we -- there aren't more ways. What it means is that the -- that the population at
44 large has substantial immunity to the virus, that is protection against the infected and

1 that -- against (INDISCERNIBLE) disease by dent of previous infection and recovery
2 or by dent of vaccination. And the -- the -- and (INDISCERNIBLE) also protection
3 against disease spread. The -- the equilibrium is going to be seasonal, so you'll see
4 seasonal -- seasonal outbreaks of COVID-19 just the same way we see seasonable
5 outbreaks of other coronaviruses and regional, different regions may have different --
6 may be hit at different times. The lockdowns, if they do anything, they delay the time
7 to which that -- that equilibrium comes. Whether that equilibrium comes or it doesn't
8 come -- when it comes, it's not a question of if it comes, the question is when it comes.
9 We have no technology to stop it from coming (INDISCERNIBLE) don't do that. The
10 lockdowns are not a technology that will prevent the equilibrium from eventually
11 happening. The question -- at best what they do is they -- they delay the onset of that
12 point.

13
14 Q And, sir, upon what -- what data do you base that opinion?

15 A So, if you look now at the efficacy of lockdowns, it's very clear that the lockdowns
16 cannot stop disease spread. The disease is spread despite the imposition of -- of
17 lockdowns almost everywhere. And almost everywhere lockdowns have (phonetic),
18 there's -- nevertheless the disease has spread. We actually don't have the technology to
19 stop the disease from spreading. It will spread. At best, what the lockdowns can do is,
20 as I said, delay them for a short while at great costs, but not stop them from -- stop the
21 disease from spreading. If we had -- there was hope, I think, initially that the vaccines
22 might provide a way to stop the disease from spreading, but unfortunately the vaccines
23 are not capable of that. The vaccines -- you can be vaccinated and still get the disease.
24 That happened to me, it's happened to many, many people. There's -- the breakthrough
25 infections from the vaccines are quite common and vaccine efficacy against infection,
26 after a few months, drops to something like 20 percent or lower. So the vaccines don't
27 stop infection. The vaccines do prevent severe disease, which is a really -- which makes
28 them quite useful for focussed protection and why it's so important for public health to
29 vaccinate older people, especially in other people with chronic diseases that put them
30 at high risk if they were to get infected. So you can protect the population with the
31 vaccines, but you cannot stop the disease from spreading with the vaccines.

32
33 Q How early did the scientific community become aware of what you just said?

34 A So I think that we're --

35
36 MR. PARKER: Objection. This is not something that was raised
37 in cross-examination. Again, it is not a proper question for redirect.

38
39 THE COURT: I agree. I agree, Mr. Grey.

40
41 MR. GREY: (INDISCERNIBLE) I'll leave that point, Madam

1 Justice. Thank you.

2

3 THE COURT: Okay.

4

5 Q MR. GREY: Dr. Bhattacharya, there was a Rasmussen study
6 that was put to you on cross-examination, it was from December of 2020. Do you recall
7 that?

8 A Yes.

9

10 Q It was called Vaccination is the Only Acceptable Path -- or it put forth a statement that
11 -- the assertion that vaccination is the only acceptable path to herd immunity.

12 A Yes.

13

14 Q Do you recall that?

15 A I do.

16

17 Q Do you -- do you agree with that stated position?

18 A No. That's -- it's false. It's premised on the idea that people who are COVID recovered
19 do not have substantial immunity against both reinfections and severe disease, so that -
20 - the premise and conclusion of that -- that paper is false.

21

22 Q Mr. Parker also put to you the specific statement from that paper that herd immunity
23 has never been achieved through naturally acquired infections and is only possible
24 through mass immunization. Do you agree with that statement?

25 A No, that's false. Just to take one example from a recent pandemic, the Zika pandemic,
26 there is no -- there is no vaccine and yet there are studies that suggest that there's --
27 there's herd immunity to Zika in part because the infection with Zika confers immunity
28 -- protection against -- against reinfection, severe disease from Zika. The literature is
29 very clear that herd immunity has been established in the context of Zika even without
30 any vaccine available. The -- I already mentioned that the other coronaviruses have --
31 had (INDISCERNIBLE) equilibrium have herd immunity in that sense, in the sense
32 that it's possible to have it with -- it's -- in the sense that it means that a substantial
33 portion of the population has been infected and is protected against reinfection, severe
34 disease upon reinfection. So other coronaviruses are also controlled by herd immunity.

35

36 Q Dr. Bhattacharya, on cross-examination Mr. Parker put it to you that there were no
37 church closures in Alberta. Do you -- have you heard of Grace Life Church?

38 A Yes.

39

40 Q Okay. Are you familiar with the -- with the news story about that church?

41 A From what I understand, it was closed.

1
2 Q Okay. Do you -- do you know -- you know what -- that there were -- what restrictions
3 were placed upon capacity in churches in Alberta?

4 A I mean, to my -- to my understanding, that they were -- there were such strict capacity
5 limitations that it was not possible to hold -- hold services in a way that's appropriate
6 for the -- you know, the (INDISCERNIBLE) for those churches.

7
8 Q Do you -- did you hear -- are you aware of a pastor named Timothy Stephens, who's a
9 pastor of a church in Calgary?

10 A Yes.

11
12 Q And so what do you know about what happened with Pastor Timothy Stephens?

13
14 MR. PARKER: Again, this is not something that arose in cross-
15 examination. The objection is that it is not an appropriate line of questioning for redirect.

16
17 THE COURT: Mr. Grey?

18
19 MR. GREY: Madam Justice, may I respond?

20
21 THE COURT: Yes.

22
23 MR. GREY: It was put to -- it was put to the witness
24 specifically that there were no church closures in Alberta. That -- I think Mr. Parker knew
25 that that was incorrect, that is that's misleading, and so I'm clarifying this evidence based
26 upon the things that really -- that the Court can even take judicial notice of. So this is --
27 this is just clarifying a point that Mr. Parker brought up that I think is misleading and needs
28 to be clarified.

29
30 THE COURT: What does Timothy Stephens have to do with
31 church closures?

32
33 MR. GREY: He was -- he was arrested --

34
35 THE COURT: Well, that's right.

36
37 MR. GREY: -- for giving a service outside. Outside. A
38 church service outside --

39
40 THE COURT: Okay. But that has --

41

- 1 MR. GREY: -- based upon a court injunction.
2
- 3 THE COURT: That has nothing to do with church closures, Mr.
4 Grey.
5
- 6 MR. GREY: Well, the -- the point, My Lady, respectfully, is
7 that the capacity restrictions, and which the Court knows were up to 85 percent at the
8 relevant time period, actually forced the congregation outside and Pastor Stephens, not only
9 was his church effectively closed, he was arrested while giving a service outside, so --
10
- 11 THE COURT: I'm sorry, Mr. Grey, I can't accept that that is
12 related to the simple statement that there were no church closures. You've asked a question
13 about a particular church and that should be enough, unless there's other --
14
- 15 MR. GREY: Thank you.
16
- 17 THE COURT: -- church closures.
18
- 19 MR. GREY: All right. Thank you.
20
- 21 MR. PARKER: May I just respond to the -- again, we have these
22 frequent suggestions that the respondents' counsel, particularly me, are misleading the
23 Court and I wanted to respond to that, Justice Romaine. My question --
24
- 25 MR. GREY: That wasn't --
26
- 27 MR. PARKER: -- was in regard to --
28
- 29 MR. GREY: Sorry.
30
- 31 MR. PARKER: -- the impugned Chief Medical of -- Officer of
32 Health orders and it related to whether those orders specifically closed church and none of
33 those orders that are impugned did close church, they were capacity restrictions, and so the
34 suggestion that I'm misleading the Court I think is inappropriate and should be retracted.
35
- 36 THE COURT: Okay.
37
- 38 MR. GREY: I was -- to be -- sorry, Madam Justice, go ahead.
39
- 40 THE COURT: No, no. Well, okay. There's a suggestion there
41 that you have mischaracterized Mr. Parker's question. Do you want to retract your

1 comment?

2

3 MR. GREY: First of all, I did not say that Mr. Parker had
4 misled the Court. I said that -- that evidence was misleading in the sense that what Mr.
5 Parker put to the witness was that there were no church closures in Alberta. Clearly, we
6 all know that's not true. The GraceLife Church was triple barricaded and was used as an
7 RCMP barracks. That was my point and that was solely my point.

8

9 THE COURT: Okay.

10

11 MR. GREY: I said that -- that evidence left alone, that's what
12 I meant to say. I did not suggest Mr. Parker had deliberately misled the Court, I said that
13 evidence and the way it was presented was not accurate and therefore was misleading.
14 That's what I meant to say. I hope that's clarified.

15

16 THE COURT: Well, I'm not sure that it has to perhaps Mr.
17 Parker's or even my perspective. Mr. Parker said his question was there were no church
18 closures pursuant to any of the impugned orders and I am not so sure that that is any kind
19 of misrepresentation.

20

21 MR. GREY: Well, that's not accurate either because, if you --
22 well ...

23

24 THE COURT: Yeah.

25

26 MR. GREY: Of course the closure was pursuant to their
27 relevant orders, that's -- it was enforcement of those orders that caused the church to be
28 closed, so I'm not sure what we're arguing about.

29

30 THE COURT: Okay. Okay.

31

32 MR. PARKER: Well, sorry, I can --

33

34 THE COURT: Well --

35

36 MR. GREY: You know, the Angel Gabriel didn't come out of
37 the sky and close GraceLife Church.

38

39 MR. PARKER: And, sorry, just to be clear, the orders that were
40 put in place that are impugned did not close any church in Alberta. Whether there were
41 certain churches that refused to comply with those orders and subsequently enforcement

1 action was taken against them that resulted in their closure is a separate issue and not
2 something that's part of this hearing and therefore suggesting that I misrepresented or
3 misled the Court is inappropriate and you should retract that, sir. It wasn't the evidence
4 you had an issue with, it was the form of my question which you said was misleading when
5 I put it to Dr. Bhattacharya and that's why I'm saying you should retract that comment, sir.
6 Thank you.

7
8 THE COURT: Okay. Mr. --

9
10 MR. GREY: Okay. I'm not -- I'm not -- I don't think I need to
11 retract anything. I'm not going to do it. I've clarified what the point was of the question
12 and I'm not going to be -- I'm not going to take direction from Mr. Parker about what I
13 should be retracting. He's not a justice of the Court of Queen's Bench. If you direct me to
14 do that, then -- then that's a different matter, but I did not mean -- to clarify here, I did not
15 mean to say that Mr. Parker tried to mislead the Court. I said that that point needed to be
16 clarified and I clarified it, Mr. Parker has had the opportunity to clarify it so I don't know
17 what else can be said, Madam Justice.

18
19 THE COURT: I'm satisfied from hearing from both you and Mr.
20 Parker that Mr. Parker did not mislead the Court in his question and I'm not going to
21 compel you to withdraw that, but it may certainly be a subject for argument.

22
23 MR. GREY: Thank you, Madam Justice.

24
25 Q MR. GREY: I only have one further question. Dr.
26 Bhattacharya, can you still hear me okay?

27 A Yes.

28
29 Q Thank you. You were asked about -- by Mr. Parker in cross-examination about a panel
30 discussion in which you had participated with Governor Ron DeSantis and some other
31 scientists in Florida. Do you recall that?

32 A Yes.

33
34 Q Okay. During the -- the course of that panel discussion, you had said something that I
35 want -- I'd like you to -- to -- just to clarify, and that is that the real pandemic is fear.
36 Could you please explain why you said that?

37
38 MR. PARKER: Again, this is a leading question and it's objected
39 to on that basis. My friend has taken him to something that he apparently said in his panel
40 discussion that did not come out in the evidence when I cross-examined on -- on this, as
41 I'm -- as far as I recall.

1
2 THE COURT: Okay. Mr. Grey, you know, I certainly can't
3 recall this either.

4
5 MR. GREY: That's fine. It's (INDISCERNIBLE) point, My
6 Lady. It's not -- it's not something I'm going to (INDISCERNIBLE) at this time.

7
8 THE COURT: Okay. Okay.

9
10 MR. GREY: Thank you.

11
12 THE COURT: Thank you.

13
14 MR. GREY: Those are all of my questions for Dr.
15 Bhattacharya. Thank you. Thank you --

16
17 THE COURT: Thank you.

18
19 MR. GREY: -- Dr. Bhattacharya, for all of your assistance to
20 the Court in this matter.

21
22 A (INDISCERNIBLE) Mr. Grey.

23
24 THE COURT: So, Mr. Rath, is -- Mr. Rath, do you have any
25 questions for Dr. Bhattacharya?

26
27 MR. RATH: I do. I do, My Lady. I -- I shouldn't be very
28 long. My friend has --

29
30 THE COURT: Okay.

31
32 MR. RATH: -- covered most of the material that I wish to
33 cover.

34
35 THE COURT: Okay.

36
37 **The Witness Re-examined by Mr. Rath**

38
39 Q But I would like to go back, Dr. Bhattacharya, to the discussion in and around the
40 Savaris paper, and your indication in answer to my friend's questions that the -- that the
41 retractions to you seemed unusual. Would you agree, sir, that with regard to -- and you

1 had spoken in response to my friend's questions with regard to various camps. Would
2 you agree, sir, that the science in and around COVID, especially in the United States
3 but elsewhere, has been unduly politicized?

4 A (INDISCERNIBLE).

5

6 MR. PARKER: Again, it's a leading question --

7

8 THE COURT: Yes.

9

10 MR. PARKER: -- and that this is not something that arises in
11 redirect.

12

13 THE COURT: I agree.

14

15 MR. RATH: Well, sir --

16

17 THE COURT: I'm sorry, Mr. Rath. That was definitely a
18 leading question.

19

20 Q MR. RATH: All right. Well, I'll ask the question then without
21 the preamble. Dr. Bhattacharya, my friend was pressing you with regard to why the
22 Savaris paper may have been retracted. In your view, was that -- did that retraction
23 appear to be political in nature?

24

25 MR. PARKER: Objection. It's a leading question.

26

27 MR. RATH: On what --

28

29 THE COURT: Mr. Parker? Mr. Parker?

30

31 MR. RATH: On what basis --

32

33 THE COURT: Mr. Parker, would you give your --

34

35 MR. PARKER: Again, it's a --

36

37 THE COURT: -- basis, please?

38

39 MR. PARKER: Sorry. Again, it's a leading question and this
40 issue of politicization and Savaris was not something that I recall being covered in cross-
41 examine. There's nothing to clarify or explain here.

- 1
2 MR. RATH: Certainly, My Lady, but my friend repeatedly put
3 questions to my friend asking him why he -- or -- or felt -- put questions to Dr. Bhattacharya
4 asking him why he felt the paper was retracted and what prompted the retraction. I'm
5 simply seeking clarification. This question is not leading.
6
- 7 THE COURT: Well, Dr. Bhattacharya --
8
- 9 MR. PARKER: (INDISCERNIBLE).
10
- 11 THE COURT: -- had every opportunity to answer Mr. Parker's
12 question about why the article was retracted. You are now suggesting to him in a leading
13 question that it was political. I don't think you can really get past that, Mr. Rath.
14
- 15 MR. RATH: I'm simply asking him whether in his view it
16 was, My Lady. I'm not suggesting to him anything --
17
- 18 THE COURT: Well --
19
- 20 MR. RATH: -- with respect, but anyway, I'll -- I'll move on.
21 I've heard what the Court has had to say on the point.
22
- 23 Q MR. RATH: Dr. Bhattacharya, there has been quite a bit --
24 there's quite a bit to you put to by my friend with regard to papers concerning so called
25 NPIs, non-pharmaceutical interventions. In your view, looking at them one by one, are
26 -- is masking -- widespread masking a suitable non-pharmaceutical intervention?
27 A I don't think (INDISCERNIBLE).
28
- 29 MR. PARKER: Again, objection. This is not something that is
30 appropriate for redirect. This is not something that arose during cross-examination and
31 now needs explaining or clarifying. Masking and its effectiveness has been a subject
32 through the reports from the primary report through the rebuttal report of Dr. Kindrachuk
33 and again, this is not something that is appropriate in redirect.
34
- 35 THE COURT: Okay. Mr. Rath?
36
- 37 MR. RATH: My Lady, in my -- in my view, my friend put all
38 kinds of papers to Dr. Bhattacharya with regard to the effectiveness of NPIs. I'd like to --
39 I'd like him in layman's terms to present his views with regard to the effectiveness of these
40 measures in light of the type of questioning that my friend put him to him -- put to him. In
41 my view, it is proper redirect.

1
2 THE COURT: I'm sorry, Mr. Rath. I can't agree. This is
3 getting into evidence-in-chief under the guise of redirect. It's not proper redirect.
4

5 MR. RATH: All right, My Lady. We have your -- we have
6 your views on that. Thank you.
7

8 THE COURT: Thank you.
9

10 MR. RATH: Those are all my questions.
11

12 THE COURT: Okay. Thank you, Mr. Rath. Okay, Dr.
13 Bhattacharya. I think we can finally let you go. Thank you very much for appearing and
14 testifying in this hearing.
15

16 A Thank you, My Lady.
17

18 MR. PARKER: Justice Romaine, you had indicated I would have
19 a chance for further --
20

21 THE COURT: Oh.
22

23 MR. PARKER: -- cross-examination.
24

25 THE COURT: Okay. Okay, Mr. Bhattacharya. Sorry. Hold on.
26 We've got one more step here. That's very true, Mr. Parker. I'm sorry. I forgot. Go
27 ahead.
28

29 MR. PARKER: For sure.
30

31 **The Witness Re-cross-examined by Mr. Parker**
32

33 Q Dr. Bhattacharya, I just want to go to the Madewell second report. You're aware, sir,
34 that that report took the original 54 studies and the meta-analysis that was in your
35 evidence and it removed four of those studies and added 37 studies to them to come up
36 with 87 studies in the meta-analysis. Do you agree that that's what the second
37 Madewell study looked at?

38 A Yes. I -- I think the Madewell study added -- added a bunch of other papers that came
39 out in between. I was not aware that they removed four, though.
40

41 Q Yeah. That -- that's -- well, you'll accept if -- well, do you want to look at that part,

1 sir, or will you accept that they took the 54 and removed four and added 37?

2 A I'll -- if you -- I'll take your word for it. I haven't done a careful comparison, exactly
3 which ones are included and not included.

4

5 Q And you'll agree -- and I've look at it, sir -- that the Madewell second study found that
6 pre-symptomatic secondary attack rates in household seconds were 8.1 percent;
7 correct?

8 A I don't remember the number.

9

10 Q You -- yeah. Sure. Sorry. We're just going to bring that study up for you, sir. You
11 didn't mention the pre-symptomatic when you were going through your evidence
12 clarifying your views on the Madewell second study. You just referred to the .7 percent
13 from the original Madewell and then the 3 to 3.9 percent in the Madewell second study.
14 Do you remember that -- saying that, sir?

15 A Yes. And -- but I also clarified why I did that. The reason is that from a public health
16 point of view, the question is that you -- is that you -- you can't tell if someone who is
17 positive and is asymptomatic whether they're pre-symptomatic or asymptomatic at the
18 time or just simply asymptomatic at the time, because you can only determine that if
19 someone subsequently develops symptoms.

20

21 So if what you have is someone with a positive test by no symptoms, you can't tell. So
22 the relevant question from a public health point of view isn't pre-symptomatic versus
23 asymptomatic. The relevant question is -- is someone who's just asymptomatic and
24 you don't know if they're going to develop symptoms. That's why the 3 or the 3.9 is
25 the appropriate number.

26

27 Q Sir, you've got the page I took you to in cross-examination on the screen now, the
28 asymptomatic and/or pre-symptomatic 3.9 percent. Do you see that, sir?

29 A Yes.

30

31 Q And you're not aware what that -- that 3.9 represents. I understood from your evidence
32 today you're not sure what that 3.9 --

33 A I'm still not --

34

35 Q -- (INDISCERNIBLE)?

36 A -- clear from reading the paper exactly what the -- what the distinction is between the
37 asymptomatic versus asymptomatic and/or pre-symptomatic.

38

39 Q And the (INDISCERNIBLE) --

40 A I think it's -- I think it's a combined -- I think -- I think what they're doing, if I'm -- if
41 I'm reading the paper correctly is that they're combining the two, asymptomatic and

1 pre-symptomatic, together to get a single number, in which case if that's true, if my
2 reading of the paper is correct, although again it's -- it's a little unclear from the paper
3 from my reading, then that's the right -- then 3.9 would be the right number.

4
5 Q Your understanding is they combined the 3 percent asymptomatic and the 8.1 for pre-
6 symptomatic to get the 3.9?

7 A Yeah. Yeah. I think -- I think that they did some sort of combination, although like I -
8 - I said, from reading the paper and the methods I couldn't tell exactly.

9
10 Q But you'll acknowledge, sir, if someone is pre-symptomatic, that is they don't have
11 symptoms yet; right?

12 A Yes.

13
14 Q And so if secondary attack rates in household settings are found to be 8.1 percent for
15 the pre-symptomatic group, that means that those who don't have symptoms but
16 subsequently do get symptoms have a secondary attack rate in household settings of an
17 8.1 percent; right?

18 A Yes. And as I said, that's not the relevant question for public health. The question is
19 whether someone who has tested positive without symptoms, what is the likelihood that
20 they're -- they're going to pass this disease onto somebody else. (INDISCERNIBLE).

21
22 Q You're saying that it's (INDISCERNIBLE) --

23 A Sorry, sir. Can I finish? If you don't know --

24
25 Q Please go ahead.

26 A Yeah. You don't know if they -- if they're going to ultimately develop symptoms when
27 you have the positive test. And so the relevant question from public health based on
28 the information that's available at the time of the positive test when they
29 (INDISCERNIBLE) individual is not -- because you can't tell, you're not God --
30 whether they're going to eventually develop symptoms. You just have to make -- take
31 action based on -- on the -- the evidence you have in front of you, which is they're
32 asymptomatic and they're tested positive. And here, the evidence is it's 3.9 percent or
33 3 percent that they ultimately go on that -- that they pass the disease onto somebody
34 else in the same household.

35
36 Q But I'm going to suggest to you, sir, that it -- it is important from a public health
37 perspective to know if pre-symptomatic people are capable of infecting household
38 members within an 8.1 percent secondary attack rate. That is important information for
39 a public health perspective; correct?

40 A For -- for what -- for what question? For orders quarantining people? I think it's not.
41 The question is I have somebody in front of me who's a positive test. They -- they have

1 no symptoms. I can't tell in advance if they're asymptomatic or just -- or -- or pre-
2 symptomatic. I can't tell which category they fall into, so I have to take action based
3 on the information I have. The information I have puts them in the 3.9, not the 8.1.
4

5 Q Okay. Thank you. Sir, you -- you had suggested that you thought the Madewell second
6 study had looked at some additional studies since the first Madewell study that had
7 looked at some different time periods. Do I have your evidence correct so far?

8 A That's what I understood.
9

10 Q And you mentioned Omicron, sir; correct?

11 A We've talked about Omicron. You asked me about Omicron, remember.
12

13 Q No, no. In -- in the context of your re-examination this morning on the second
14 Madewell study and -- and suggesting that Madewell -- the second study had looked at
15 some studies during different time periods, different waves. And then you mentioned
16 Omicron. Do you remember doing that this morning, sir?

17 A Yeah, but I didn't mention that to say that -- that they include the studies based on
18 Omicron. I said I have not seen very many studies on the secondary attack rate based
19 on Omicron. I don't think that --
20

21 Q (INDISCERNIBLE).

22 A -- we had time for those studies to get published yet.
23

24 Q Why did you mention Omicron in the context of questions about the Madewell second
25 study then, sir?

26 A To -- to show that the -- that the development of variants can change the -- the secondary
27 attack rates. We actually talked about that during the original cross-examination as
28 well.
29

30 Q Yeah. I know that, sir, but it doesn't have anything to do with the Madewell second
31 study; right? Omicron has nothing to do with the Madewell second study; correct?

32 A The fact that -- that variants can change the secondary attack rate has -- I think they do
33 -- a lot to do with the Madewell second study. I think -- I think --
34

35 Q Well, Madewell --

36 A -- (INDISCERNIBLE) included things -- studies that were part -- from the -- from the
37 Alpha wave that were later than the -- than some of the studies included from the
38 original Madewell study.
39

40 Q The Madewell second study was published August 27th, 2021. Had Omicron appeared
41 at that point, sir?

1 A No.

2

3 Q But Delta had, sir?

4 A (INDISCERNIBLE) I didn't -- I'm sorry. I hadn't -- I hadn't said anything about
5 Omicron being included in that second (INDISCERNIBLE). I'm not sure if I
6 understand the question.

7

8 Q I just wanted to clarify, sir, because as I said this morning and discussed in the second
9 Madewell study and -- and indicating you thought that there were additional studies
10 added to the second Madewell study as compared to the first, that that included
11 information from different waves and you mentioned Omicron. And I just wanted to
12 confirm your understanding that the Madewell second study did not include any studies
13 that looked at secondary attack rates in household settings involving the Omicron
14 variant.

15 A That's true.

16

17 Q Thank you. And, sir, do you know if the Madewell second study looked at secondary
18 attack rates involving the Delta variant?

19 A I don't think so, but I'd have to confirm. I haven't looked at all of the -- all of the
20 (INDISCERNIBLE) inside the Madewell -- the second study. So I -- I think primarily
21 it included Alpha.

22

23 Q And Alpha, sir, you would agree was the dominant variant in Alberta --

24

25 MR. GREY: My Lady -- My Lady, I'm going --

26

27 MR. PARKER: -- during the third wave?

28

29 MR. GREY: -- to object here. Can I object, please?

30

31 THE COURT: Yes. Go ahead.

32

33 MR. GREY: My -- my friend has had considerable latitude
34 and I understand why. He -- he's cross-examining, but I think he's gone past the point of
35 issues that were raised on re-direct. I certainly did not -- I didn't ask the witness any
36 questions about the line of questioning that Mr. Parker is pursuing.

37

38 The other thing I want to raise as a concern with the greatest of respect to my friend, I know
39 that we all get very excited here, but, you know, guffawing and chuckling or giggling in
40 answer to an eminent scientist's answers to questioning in court I think is -- is inappropriate
41 and I'd ask that Mr. Parker please keep those (INDISCERNIBLE) reactions in check.

1 We're all here to do a job and the -- the job is not to demean a witness of the eminence of
2 Dr. Bhattacharya. Thank you.

3
4 THE COURT: Okay. Mr. Parker?

5
6 MR. PARKER: Sorry. The objection was -- I'm just trying to
7 come back to what the objection was here.

8
9 MR. GREY: I can rephrase it. I said that --

10
11 MR. PARKER: Sure.

12
13 MR. GREY: -- that Mr. -- I thought that Mr. Parker had gone
14 beyond the scope of redirect and -- and is actually going back and launching into basically
15 an extension of his already lengthy cross-examination. And then the other comment I made
16 I think is pretty obvious and I'm not going to (INDISCERNIBLE) --

17
18 MR. PARKER: Well -- sorry. I just -- I don't want to -- let's just
19 deal with the objection if we could, sir. So I think I have your objection, sir, and my
20 response is when I cross-examined Dr. Bhattacharya last week he hadn't seen the second
21 Madewell study. So my ability to cross-examine on that was limited. I indicated in our
22 meeting on Friday that my -- the respondent's position is that Dr. Bhattacharya has had that
23 study now for several days and has had an opportunity to review it and should appropriately
24 as an expert in this matter, considering it's an update of a key study in his primary report,
25 review and be prepared to speak to that in redirect and cross-examination. And so my
26 questions were in that context.

27
28 And specifically, I was asking, I understood, about his evidence where he was suggesting
29 Madewell's second study had looked at data from the Omicron wave. He confirmed that's
30 not the case. I was asking about the Delta wave. He confirmed that he doesn't think that's
31 the case. And now, he just talked about the Alpha wave and I was simply confirming via
32 question on that answer that the Alpha was the dominant variant here in Alberta during the
33 second wave, and that was the end of my questions on that point.

34
35 THE COURT: Okay. Do you want to address Mr. Grey's
36 concern about your response to Dr. Bhattacharya's evidence?

37
38 MR. PARKER: Well, sorry, so on the objection, I'll -- I'll -- I
39 don't need the answer to the question on the Alpha being the dominant variant in the second
40 wave. That's in -- sorry, third wave. That's in evidence. In terms of giggling, guffawing
41 or not treating this witness with the appropriate respect, that's not my intent, and my

1 apologies if that has occurred this morning. I'll look for your guidance on that, Justice
2 Romaine, but, sorry, I'm -- I'm not sure specifically what's being referred to and so I'll --
3 I'll turn that over to you and you can let me know.

4
5 THE COURT: Okay. Okay. Thank you. So I think we've
6 dispensed with the first part of the objection. With respect to any laughter that Mr. Parker
7 may have expressed after hearing an answer from Dr. Bhattacharya, I don't believe that
8 that was a reflection of disrespect and I hope, Dr. Bhattacharya, you don't take it that way.
9 Okay. Then --

10
11 MR. PARKER: Thank you.

12
13 THE COURT: -- any other questions, Mr. Parker?

14
15 MR. PARKER: Yes.

16
17 Q MR. PARKER: Continuing, sir, you've spoken several times
18 about shelter in place orders. Do you agree that Alberta did not have a shelter in place
19 order from the first, second and third waves?

20 A I -- I don't -- I don't know if it -- it didn't have something close to a shelter in place
21 order or a -- I used a severe NPI like business closures and things like that. Those are
22 -- those are -- the -- essentially quarantine kinds of orders that are -- that are in place
23 through much of the pandemic in -- in -- including in Alberta, I think. If you mean by
24 (INDISCERNIBLE) shelter in place order like -- like the Chinese, no. If you mean by
25 shelter in place orders, recommendations to stay home or -- or requiring us to stay home
26 except for certain classes of people, I -- my understanding is that there were some orders
27 like that in Alberta as well.

28
29 Q Well, sir, how do you define -- I think we -- you know, I -- strike that. We've -- we've
30 covered this already. Let's go onto vaccines not stopping transmission. Sir, that's your
31 evidence? Vaccinations does not stop transmission?

32 A Yes.

33
34 Q Is that correct? And when did you come to that conclusion, sir?

35 A Sometime around, I'd say -- I'd have to go back in my notes, but sometime in the -- in
36 the early part of 2021.

37
38 Q Early part of 2021, so we would be in the -- either at the end of the second wave in
39 Alberta or in the beginning of the third wave, depending specifically when it was then?

40 A Yes. (INDISCERNIBLE) maybe March 2021.

41

1 Q And are you able to tell me what specifically in March 2021, if anything, caused you to
2 come to this firm conclusion?

3 A I was looking at places like the Seychelles Islands that had a very high vaccination rate
4 that nevertheless had a big wave of cases. It seemed very clear that you couldn't have
5 that if vaccinations stopped transmission.

6
7 Q And so if it was March 2021, sir, would you agree that that might be into the third wave
8 in Alberta?

9 A I don't know the exact wave times -- timing.

10
11 Q Sir, do you acknowledge that there are others in the -- there -- well, there is academic
12 literature from March 2021 up until the present time that would come to a different
13 opinion on that question, that is vaccinations do help to stop transmission?

14 A No. There -- there's no evidence that I'm aware of that shows that the vaccines stop
15 transmission. That's -- that's not true.

16
17 Q Sorry. You're --

18 A (INDISCERNIBLE) published evidence to that extent just saying that. The -- the
19 vaccine efficacy rates that were published at -- around that time were on -- on
20 prevention of symptomatic disease, not -- not disease transmission and not -- not
21 infection. So that's -- what you just said is false. I know of no academic evidence
22 published -- published evidence that -- you know, that's reputable that suggests that the
23 vaccine stopped transmission.

24
25 Q Sorry. Just to be clear, sir, you're saying from March 2021 until now, you're not aware
26 of any published reputable evidence that suggests vaccinations for COVID-19 help to
27 stop transmission of that disease?

28 A I said stop transmission. I know of no reputable evidence that -- that the vaccinations
29 stop transmission.

30
31 Q Sorry. Are you distinguishing between stop as in completely stop and limiting
32 transmission? When you say stop, are you saying they don't 100 percent stop? Is that
33 how you're defining --

34 A (INDISCERNIBLE) --

35
36 Q -- stop when you answer these questions?

37 A -- the best evidence are places -- from places like Qatar, from Sweden, from Israel show
38 that vaccine efficacy against infection drops to something like -- I already answered
39 this when I talked to Mr. Grey -- to something like 20 percent or lower. When you have
40 a vaccine that only has 20 percent efficacy against infection, that -- that -- at best what
41 that does is delay for a short time the timing to -- to getting infected. It doesn't --

1 doesn't stop you from getting it.

2
3 So the -- it's not just a question of help prevent transmission. It doesn't actually do
4 that. What it ultimately does is prevent -- prevent -- reduce the severity of illness if you
5 -- if you do get infected. As a tool to try to stop the disease from spreading, these
6 vaccines don't work for that. They cannot work for that. Twenty percent -- you need
7 something like 90, 95 percent efficacy against infection and transmission. These
8 vaccines just don't have that in order to -- to actually stop them.

9
10 Q What about slowing the spread, sir? Did the vaccines in March of 2021 -- did they help
11 to slow the spread of this disease?

12 A It's -- that's a complicated question, because it depends also not just on the vaccines
13 themselves but also on the behaviour of the people that are vaccinated. So if someone
14 who believes that they're protected may -- may interact with larger -- larger groups of
15 people, may -- may go out even though they're symptomatic. So I don't know the
16 answer to that question.

17
18 Q Sir, you talked about 20 percent efficacy of vaccines in the answer you just gave. Do
19 you know what you're talking about?

20 A No. I don't know what you're talking about.

21
22 Q Sorry. You talked about where a vaccine only has 20 percent efficacy in your evidence
23 just in the last few minutes. Do you recall that evidence or did I misunderstand --

24 A Yes. Yeah.

25
26 Q -- what you said? You did? Okay. And, sir, is that 20 percent -- where does that come
27 from, sir? Is that somebody who has had one shot or a second shot or a booster? Where
28 do you get that 20 percent (INDISCERNIBLE)?

29 A That evidence is from a paper that was published in the New England Journal of
30 Medicine from a study of a -- a very careful (INDISCERNIBLE) study done in Qatar,
31 which has an excellent electronic health record system. They tracked people that --
32 with -- with two doses versus unvaccinated and what they found was a -- by 6 months
33 after vaccination that the efficacy against -- against infection had dropped to 20 percent
34 or -- or -- you know, and -- and actually, in the pre-print it was even lower than that.

35
36 The -- the -- that study has been corroborated by other studies, including in Northern
37 California in a study by some folks at the Kaiser Permanente. It's been corroborated
38 by other studies in -- in places like Sweden using very similar methods
39 (INDISCERNIBLE) tracking careful cohorts. The -- the -- you asked about third doses.
40 (INDISCERNIBLE).

41

- 1 Q Sorry. Can I just stop you there? The study you were just talking about, that's not in
2 your report; right? We won't find that in there?
- 3 A I don't remember what -- I don't remember if I put the -- I think I -- I put the pre-print
4 -- if I remember, I put the pre-print of the -- of that Qatar study in the report, but I don't
5 -- I don't remember specifically. I would have to look (INDISCERNIBLE) --
6
- 7 Q Can you take me -- let's go to your report then, sir. Can you take me to where that pre-
8 print is in your report, sir?
- 9 A I --
10
- 11 Q Is that in your -- is that in your primary report or your surrebuttal report?
- 12 A It's likely in the secondary, because I think it came after the -- after the -- you know,
13 after I wrote the primary report, but I don't remember exactly specifically. I'd have to
14 look.
15
- 16 Q Sure. Could you look, sir, and could you take me to where that pre-print report is
17 discussed in the surrebuttal report then, please, sir?
- 18 A Let me -- I'd have to pull it up. Okay. Sorry. This is going to take me a few minutes
19 to find it -- find the report. I'm -- I'm sorry. I -- I was responding to your question
20 what -- what was the basis of that 20 percent. You -- you were asking me that; right?
21 So I didn't say -- I didn't make any representations to my surrebuttal report.
22
- 23 Q I'm sorry. I think I was muted when I was asking you that, sir. You had indicated, I -
24 - I understand, that you had looked at a study out of Qatar and I asked you if this study
25 was mentioned in your reports and I think you had indicated due to the date it wouldn't
26 be the primary report, it would be surrebuttal report. And I've asked you can you
27 identify where that study or the -- you've just been discussing on vaccine efficacy where
28 -- where in your report, sir.
- 29 A Yeah. I have to -- I said I'll have to look.
30
- 31 Q Sure. And are you doing that, sir?
- 32 A Yeah. That's where I'm currently looking right now.
33
- 34 Q Thank you.
- 35 A No. It's not in my -- my surrebuttal report.
36
- 37 Q And you're comfortable then it's not in your primary report as well based on the
38 (INDISCERNIBLE)?
- 39 A (INDISCERNIBLE) was published after.
40
- 41 Q Thank you.

1 A It is in the literature, though. As I said, published in the New England Journal of
2 Medicine.

3
4 MR. PARKER: Thank you. Those are my questions -- further
5 questions -- cross-examination arising from the redirect. I haven't had an opportunity to
6 ask any -- sorry. I'm not asking any questions on the additional studies that were put in
7 this morning and -- because we just received them and because of the objections I put on
8 the record and also because I would need an opportunity to review them with my client and
9 my own experts and consider putting in additional studies of -- of the -- of an alternate
10 view. And so on that basis, those are my questions, Justice Romaine. Thank you.

11
12 THE COURT: Okay. Thank you. Okay. Finally, Dr.
13 Bhattacharya, I think we can allow you to go. Thank you. As I said before, thank you --

14
15 A Thank you, Your Honour.

16
17 THE COURT: -- for your testimony. Okay.

18
19 A Thank you.

20
21 (WITNESS STANDS DOWN)

22
23 THE COURT: Okay. It's 10:44. Would it be an opportune time
24 to take the morning break so that you can get organized for the next witness who will be, I
25 understand, Dr. Kindrachuk?

26
27 MR. PARKER: Dr. Kindrachuk. Yes. It would be a great time
28 for that.

29
30 THE COURT: Okay.

31
32 MR. PARKER: We'll check in with Dr. Kindrachuk. He is
33 ready, we understand, but if we could have maybe 15 minutes and then we'd be ready to
34 go.

35
36 THE COURT: Okay.

37
38 MR. PARKER: And, sorry, Justice Romaine, Dr. -- Dr.
39 Kindrachuk, excuse me, is available from 10:30 until 1:00 today our time and then has
40 some additional time tomorrow. We're anticipating we might not finish. And so I don't
41 know if it works to go right through when we come back?

1
2 THE COURT: Sure. To 1:00? Why don't we do that?
3
4 MR. PARKER: Yeah. Thank you.
5
6 THE COURT: Okay.
7
8 (ADJOURNMENT)
9
10 THE COURT: Okay. Thank you, everybody. Are we ready?
11
12 MR. PARKER: Yes, Justice Romaine, we're ready to proceed
13 with Dr. Kindrachuk and let him in.
14
15 THE COURT: Okay. Great.
16
17 MR. PARKER: He is in the attendee waiting room, I understand,
18 ready to be let in.
19
20 THE COURT: Okay. Madam clerk?
21
22 THE COURT CLERK: Yes, I've let him in.
23
24 THE COURT: Okay.
25
26 MR. PARKER: And, Justice Romaine, I was going to very
27 briefly, keeping with what we had discussed on the first day, just ask Dr. Kindrachuk to
28 speak to his expertise, if that's okay?
29
30 THE COURT: Yes.
31
32 **KENNETH JASON KINDRACHUK, Affirmed, Examined by Mr. Parker**
33 **(Qualification)**
34
35 Q Dr. Kindrachuk, good morning, sir.
36 A Good morning.
37
38 Q I don't know about anybody else, but for me and my colleague here, you're just a little
39 bit quiet. I'm not sure if there's anything at your end we can do about that or whether
40 we need to just turn our volume up. Is there anything you can do, sir?
41 A I'm just going to try. I am -- it looks like I'm at the highest level of my microphone.

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Q Okay.

A Let's see if I take that off, is that any better?

MR. PARKER: Justice Romaine, how is that for you?

THE COURT: I can hear Dr. Kindrachuk, so.

MR. PARKER: Okay. Excellent. Thank you.

THE COURT: Okay. Okay.

MR. PARKER: Counsel, has he been coming across clearly for you, Mr. Grey and Mr. Rath? Are you fine?

MR. GREY: I -- I can hear him just fine. Thank you.

MR. PARKER: Excellent.

MR. RATH: Madam Justice, we can hear him as well. Thank you.

MR. PARKER: Excellent. Thank you, counsel.

Q MR. PARKER: Good morning, Dr. Kindrachuk, and thank you for --

THE COURT CLERK: I apologize, Mr. Parker, I haven't finished swearing the witness in.

MR. PARKER: I'm sorry, my apologies.

Q MR. PARKER: Good morning, Dr. Kindrachuk. How are you, sir?

A I'm doing good, thanks.

Q Good. Sir, this is the matter involving Ingram and the respondents, Her Majesty the Queen in Right of the Province of Alberta, and, sir, you prepared an expert report in this matter that was filed July 12th, 2021; is that correct?

A That is correct.

1 Q And, sir, you will be asked questions by my friends about that report today and I just
2 want to make sure you have a copy of that report and attachments with you, sir?

3 A I do.

4
5 Q And, sir, the copy that was filed has a total of, I believe 1,236 pages, including all
6 attachments, and the version that we'll be referring to will have numbers in the top right-
7 hand corner of the page from 1 through to 1,236. Do you have that version with you,
8 sir?

9 A I do, yes.

10
11 Q Thank you. Sir, attached to your report was schedule C, which is a schedule of the
12 sources referred to in your report, and also schedule B, which is your curriculum vitae,
13 and that is at page 30 of 1,236 and what I wanted to do was just get you to turn to your
14 CV, sir -- sorry, page 31 of 1,236, and let me know when you have that, sir.

15 A I'm there.

16
17 Q And, sir, what I'd like you to do is, for the Court, briefly review your background,
18 training, and credentials as it relates to you having the necessary expertise to give the
19 opinions that you have given in the report that you filed in this matter. Do you
20 understand that, sir?

21 A Absolutely. So I'm -- I'm a PhD trained scientist. I did my undergraduate degree in
22 biochemistry at the University of Saskatchewan and that was followed by my graduate
23 degree which started as a masters but which transitioned to a PhD, and -- and that was
24 completed in 2007, that was in the laboratory of Dr. Scott Napper in the Department of
25 Biochemistry at the University of Saskatchewan.

26
27 My work from there really moved into, you know, host pathogen interactions mostly
28 looking at bacteria but as well in -- in viruses. And in 2007, I moved to Vancouver,
29 started a -- a post -- a post-doctoral fellowship in the laboratory of Dr. Bob Hancock at
30 the University of British Columbia. I spent 2 and a half years there and then in 2009,
31 November 2009, I was recruited by the National Institutes of Health in Bethesda,
32 Maryland to move down there as a visiting fellow in the laboratory of Dr. Peter B.
33 Jahrling, who was leading the brand new bio safety level 4, or containment level 4,
34 (INDISCERNIBLE) laboratory at Fort Detrick, Maryland, which was part of the -- the
35 NIH.

36
37 I spent from 2009 up until, I guess it would have been October 2014, at the Integrated
38 Research Facility, the -- the BSL-4 facility at Fort Detrick, and started as a visiting
39 fellow, moved into a principal research scientist position during that timeframe as well,
40 and then in October 2014 transitioned to a full-time government position with the
41 National Institutes of Health as a staff scientist in the Department of Critical Care

1 Medicine back down at the Bethesda campus and spent from October 2014 to December
2 2016 in that position, when I was recruited by the University of Manitoba for a Canada
3 Research Chair position in the molecular pathogenesis of emerging and reemerging
4 viruses.

5
6 So I started that position January 1st, 2017 and I have been here now for just over 5
7 years. I've completed my first term as a Canada Research Chair. My second term has
8 been applied and the results are -- are under embargo until CRC basically approves that
9 those are ready to be released.

10
11 So in that timeframe I've -- I've done quite a bit of training, worked mostly in -- in high-
12 containment pathogens but also was a -- a scientific lead for diagnostics in the field
13 during the West African Ebola epidemic in 2014 and led those efforts in Monrovia,
14 Liberia.

15
16 Q Thank you, Dr. Kindrachuk.

17
18 MR. PARKER: Justice Romaine, I wasn't planning, given that
19 there was no objections to the admission of this report, to specifically seek to qualify Dr.
20 Kindrachuk before you, I was simply going to have him speak to his area of qualifications
21 as he's just done and then present them for cross-examination. However, if you would like
22 me to move to specifically have him qualified, I will do so now.

23
24 THE COURT: Will there be any cross-examination on the
25 doctor's qualifications?

26
27 MR. RATH: We'll certainly be putting questions to him that
28 go to the weight of his evidence, given what appears to be his lack of -- of expertise with
29 regard to non-pharmaceutical interventions, so I'll leave that to my friend.

30
31 THE COURT: Okay. Mr. Grey, any questions with respect to
32 qualifications?

33
34 MR. GREY: No, Madam Justice. I just would like to have Mr.
35 Parker perhaps have the witness specify the -- the scope of his -- of his expertise and the
36 nature of the opinion that's going to be offered because --

37
38 THE COURT: Okay. Thank you.

39
40 MR. GREY: Yeah, but that's -- that's my only comment.
41 Thank you.

1
2 THE COURT: Thank you.

3
4 Mr. Parker, would you advise me the basis on which you wish me to qualify Dr.
5 Kindrachuk to give expert opinion evidence?
6

7 MR. PARKER: Sure. Dr. Kindrachuk should be qualified as a
8 virologist with expertise to give evidence -- opinion evidence on the matters covered in his
9 report which looks at issues regarding the virus SARS-CoV-2 and the disease it causes,
10 namely COVID-19. So that is the area of expertise that we're seeking to have Dr.
11 Kindrachuk qualified in to speak to the subject matter in his report. Is that suffice?
12

13 THE COURT: Okay. Just let me get it clear, that Dr.
14 Kindrachuk would be qualified as an expert to give opinion evidence as a virologist with
15 matters covered in his report issued with respect to the virus, COVID, and then can you
16 help me from then on?
17

18 MR. PARKER: Yes. I was reading from the form 25 and it's --
19

20 THE COURT: Okay.
21

22 MR. PARKER: -- sorry, regarding the virus SARS-CoV-2 and
23 the disease it causes, namely COVID-19, and that was the extent to which I had suggested
24 he be qualified. I wasn't going to go through the specific topics in his report of that
25 qualification exercise.
26

27 THE COURT: Okay. Any objection to that qualification?
28

29 **Submissions by Mr. Rath (Qualification)**
30

31 MR. RATH: Madam Justice, we object to that qualification. It
32 is not apparent from Dr. Kindrachuk's CV that he is an expert in a number of areas that he
33 provides opinions on in this report, including references to masking, including references
34 to -- including references to (INDISCERNIBLE) COVID and reproductive health
35 concerns, long-term complications in COVID recoveries, et cetera. He's not a doctor, he's
36 a microbiologist. My understanding in layman's terms is that microbiologists largely deal
37 with microscopic organisms in a laboratory, not public health at large.
38

39 To quote my friend in some of his questions for Dr. Bhattacharya, it does not appear that
40 Dr. Kindrachuk has a master's in public health (INDISCERNIBLE), it does not appear that
41 has a degree in epidemiology, it does not appear that he even has a degree in virology, he

1 has a degree in microbiology, which, again, from our layman's understanding of -- of that
2 qualification and the work that he's spoken to in his qualification, has more to do with
3 laboratory work than it does to the application of NPIs across an entire society or the -- or
4 the locking down or infringement of constitutionally protected rights wholesale across an
5 entire society to present -- prevent disease transmission. So if my friend wishes to rely on
6 his evidence in that regard, then my suggestion would be that he does need to qualify him
7 because I have some grave concerns with regard to the qualifications of this witness.
8
9

10 **Submissions by Mr. Parker (Qualification)**

11
12 MR. PARKER: And so we had discussed this previously under
13 case management with Madam Justice Kirker. There were no objections to the reports
14 going in and the qualifications. I had put on the record at the beginning the suggestion that
15 it might be helpful to the Court to go through in brief the qualifications and outline the
16 basis on which the various witnesses were purporting to give the expert opinion they have
17 done. So if my friend is now objecting to qualifications, that's something that was water
18 under the bridge.
19

20 What I would say is similar to what we said about Dr. Bhattacharya that these are matters,
21 given that background, that can go to weight and argument in terms of whether ultimately
22 my friend feels that Dr. Kindrachuk lacks some expertise to give the -- some of the opinions
23 that he's given in his report.
24

25 MR. RATH: With --

26
27 THE COURT: Mr. Rath?
28

29 MR. RATH: With respect, My Lady, our concerns with Dr.
30 Kindrachuk's qualifications have to do with the extent to which he's offering opinion that
31 appears well outside the scope of his expertise. If my friend wishes to provide a -- such a
32 truncated qualification of the witness, we'll simply leave that for argument at the end of the
33 day or cross-examination for this witness, but I certainly wanted to bring it to the Court's
34 attention and I didn't want the Court or the record to reflect that we had no objections with
35 regard to the qualifications of this witness with regard to the breadth of his report and
36 numerous matters included in his report that appear well outside the scope of his expertise.
37

38 Again, it appears to us to be the -- the Mr. Long scenario where the Crown puts up a witness
39 to be qualified as an expert and then provides a bunch of evidence in the report that's well
40 outside the scope of their expertise, as with regard to Mr. Long's (phonetic)
41 (INDISCERNIBLE) NPIs public health issues, et cetera, when he's clearly not qualified to

1 give that evidence. So, again, from our perspective, we have the same issue here. We have
2 a microbiologist which, from our reading of his CV, has a fairly narrow skillset providing
3 evidence well outside the scope of his academic background and expertise.
4

5 So I'm just putting my friend on notice that that's going to be our position and it's going to
6 be the position that we're going to be taking throughout our cross-examination
7 (INDISCERNIBLE). If he wishes to truncate (INDISCERNIBLE) witness to the degree
8 that he has, then he's on -- he's on notice of our position. Thank you.
9

10 THE COURT: Okay. Mr. Rath, I gather that you are not
11 contesting the qualification of Dr. Kindrachuk and that your concerns will be concerns that
12 you'll bring to the Court's attention in terms of weight; is that correct what I'm getting at?
13

14 MR. RATH: Well, I'm also -- I'm also contesting his
15 qualification with regard to a number of the matters that he provides opinion on in his
16 report because from both his CV and of the background as he describes it at pages 3 through
17 -- 3 (INDISCERNIBLE) exact page references, 3 through 9, his background -- his
18 background qualifications do not appear to cover off the bulk of his opinion on NPIs and
19 otherwise that he's provided.
20

21 THE COURT: Okay.

22
23 MR. RATH: This man has --
24

25 THE COURT: Okay.
26

27 MR. RATH: -- (INDISCERNIBLE) --
28

29 THE COURT: I think we have two issues here, one is are you
30 precluded, Mr. Rath, from contesting the qualification of this witness by the oral hearing
31 order? And I think, Mr. Parker, you referred to that. And, secondly, if you are not
32 precluded, then we're going to have to have a voir dire on qualification. Unfortunately, I
33 don't think I have the oral hearing order here in front of me.
34

35 Mr. Parker, maybe I should ask you. Am I clear on that?
36

37 MR. PARKER: Yeah. I'm just going to have to find it but,
38 certainly, the only issue with anybody's qualifications for these reports to go into evidence
39 was Mr. Rath, that's Ms. Ingram and Mr. Long. No other issue was taken with any of these
40 reports going into evidence under the *Rules of Court*. Nobody took issue with the
41 qualifications of the experts to put these reports into evidence. That said, I raise the issue

1 that there would be a cross-examination of Dr. Bhattacharya going to the scope of his
2 expertise and that might go to weight in argument and I had understood that the same might
3 apply to the witnesses of the respondent. But if we're now going back to say, in fact, in
4 spite of taking the position that there was no objections to qualifications, we're now going
5 to change that, then that's something that will have to be looked at because my
6 understanding is that, given the oral hearing order and the positions of everybody, we've
7 already -- that ship has sailed.

8
9 THE COURT: All right. Okay. I don't have the oral hearing
10 order in front of me. I'd like to go upstairs and just pick it up and --

11
12 MR. PARKER: We can -- we've got it on the screen if that helps
13 --

14
15 THE COURT: Oh, you do? Okay. Thank you. That does help.
16 It's my recollection that you're correct, Mr. Parker, that --

17
18 MR. PARKER: Justice Romaine --

19
20 THE COURT: -- right, I'm looking at: (as read)

21
22 The respondents have no objections under rule 536 of the rules to
23 the admissibility of the applicants' expert reports. The respondents
24 shall notify the applicants of any objection to the admissibility of
25 the applicants' surrebuttal expert reports by August 13, 2021.

26
27 And I'm assuming that you had no objection from Mr. Rath?

28
29 MR. PARKER: Correct.

30
31 THE COURT: Okay.

32
33 MR. RATH: If -- if I may, we don't object to the report, we
34 simply object to the -- the broad qualification of this witness with regard to being an expert
35 with regard to all of the matters spoken to in his report. We don't --

36
37 THE COURT: But I understand the scope was included with the
38 report, was it not? The proposed scope of --

39
40 MR. PARKER: Yes. Yes.

41

1 **Ruling (Qualification)**

2

3 THE COURT: Okay. I'm afraid that your objections will have
4 to be heard in terms of the weight to be given to the report, Mr. Rath, and I'm going to find
5 Mr. Kindrachuk qualified as an expert to give the opinion as set out previously.

6

7 MR. RATH: Thank you, My Lady.

8

9 THE COURT: Okay. Go ahead, Mr. Parker. Or was that it, Mr.
10 Parker? Yes.

11

12 MR. PARKER: That was it for me, Justice Romaine, having Dr.
13 Kindrachuk speak to his qualifications to give the evidence in his report. On that basis, I
14 now turn over Dr. Kindrachuk for cross-examination to my learned friend and my friend.
15 Thank you.

16

17 THE COURT: Okay. Thank you.

18

19 MR. RATH: Thank you, My Lady. I believe by agreement
20 with my friend, Mr. Grey, I'm up first.

21

22 THE COURT: (INDISCERNIBLE). Okay. Unfortunately, I
23 have brought down the wrong volume of Dr. Kindrachuk's report, I have volume 2, and I
24 think before you start your cross-examination, Mr. Rath, I better go and get volume 1. So
25 we'll just have a 5 minute break.

26

27 MR. RATH: Thank you.

28

29 (ADJOURNMENT)

30

31 THE COURT: Okay. Thank you. Sorry for the delay.

32

33 Mr. Rath?

34

35 MR. RATH: Thank you, My Lady. Can you hear me now?

36

37 THE COURT: Yes.

38

39 MR. RATH: Thank you.

40

41

1 **The Witness Cross-examined by Mr. Rath**

2

3 Q Dr. Kindrachuk, you can hear me?

4 A I can.

5

6 Q Okay. And, Dr. Kindrachuk, you acknowledge that you're under oath?

7 A I do.

8

9 Q And that you're being tendered as an expert in these proceedings?

10 A I do.

11

12 Q And do you acknowledge that, as an expert, it's your obligation to provide the Court the
13 best evidence and best knowledge available to you and not to act as an advocate for the
14 party that has engaged you?

15 A I do.

16

17 Q Okay. And, Dr. Kindrachuk, would you acknowledge that your background and
18 training is in biochemistry?

19 A My original training and my bachelor's in PhD was, but I spent the better part of the last
20 -- 2007 to -- 13, 14, 15 years working beyond biochemistry and certainly the last 13
21 working as a virologist.

22

23 Q I'm sorry, I didn't hear that, sir. You're -- you're saying that you spent the last 13 years
24 working as a virologist?

25 A I have, since 2009.

26

27 Q Okay. Thank you. And, sir, with regard to your background in biochemistry, would
28 you acknowledge that you're not -- you're not a physician?

29 A I'm not a physician. I'm not a (INDISCERNIBLE) PhD.

30

31 Q That's right. And you -- and you said that you don't have a -- a medical degree nor do
32 you have a master's in a public health degree; correct?

33 A I don't have a medical degree, I'm not licenced, and I don't have an MPH.

34

35 Q Right. And in that regard, you haven't taken any post-doctoral courses in -- in
36 epidemiology?

37 A I have not.

38

39 Q And you don't teach epidemiology at university?

40 A I teach microbial pathogenicity and clinical virology and we touch on epidemiology as
41 well.

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Q You touch on it, but you don't teach it; correct?

A We don't -- we don't carry an epidemiology course in my department.

Q Okay. Thank you. And you don't consider yourself to be an expert epidemiologist; is that correct, sir?

A No, I don't.

Q Thank you. Now, sir, with regard to your report, would you agree that within the body of the report you've provided -- that you haven't provided any pinpoint footnotes or references to the materials referred to in your report?

A The references are all in my report as a reference list. We -- we do not in my area of research use footnotes, we use a reference list.

Q Right. But would you agree generally, sir, with regard to the report and the references made in your report, you don't provide pinpoint references, you don't -- you simply refer to a report as backing up your point, but you don't refer to a page number or a paragraph within that report?

A We don't because that not common parlance in our area of research.

Q Okay. And you'd agree that you haven't provided an index to the materials that you provided or that they're sequentially page numbered in any way?

A No, I've -- I've provided the reference list and page numbers as we would normally do.

Q Okay. Thank you. Now, with regard to your background research, at page 5 of your report, you state that your research group is currently examining the effects of respiratory virus co-infection on disease outcome during the SARS-CoV-2 infection enhancers; is that correct, sir?

A That is correct.

Q Have you done any research on hamsters with regard to the effects of NPIs on -- on stopping the spread of COVID amongst hamsters?

A No, we haven't looked at transmission for hamsters and nor have we tried masking hamsters.

Q Okay. Thanks. And, sir, with regard to your paper, at page 5, you state that your work on SARS-CoV-2 began in early of January 2020 following the identification of the emergent virus in Wuhan, China as a novel coronavirus; is that correct?

A That's correct.

Q Have you done much work on coronaviruses prior to -- prior to January of 2020?

- 1 A I've worked on both MERS and SARS coronaviruses.
- 2
- 3 Q Okay. And with regard to the reference to the virus emerging in Wuhan, China, did
4 you write a paper, sir, opining that the SARS -- the SARS -- or COVID-19 virus
5 originated in animals and didn't leak from a lab in Wuhan, China?
- 6 A Yes. It's generally my consideration that it's most probable that it emerged in animals,
7 as had other coronaviruses and that lab leak is likely the least probable.
- 8
- 9 Q Right. And would you -- would you acknowledge, sir, that there are a number of other
10 scientists that hold an opposite view to that position?
- 11 A There are scientists that hold an opposite opinion.
- 12
- 13 Q And would you agree, sir, that with regard to this opinion that the -- that issue has
14 become quite political?
- 15 A Yes, it's been political since 2020.
- 16
- 17 Q Right. And, generally, the scientists who are either funded by the World Health
18 Organization or support positions taken by the World Health Organization support the
19 position that you've spoken of?
- 20 A I don't know, I'm not funded by WHO.
- 21
- 22 Q But you certainly work with WHO; correct?
- 23 A As a -- on a volunteer basis as an expert, yes.
- 24
- 25 Q And with regard to your opinion, sir, with regard to the origin of -- of SARS-CoV-2 --
26 or, I'm sorry, SARS COVID-19 being released from -- or from an animal reservoir as
27 opposed to the lab, can you state for the record what the basis is of that opinion?
- 28 A Yes. We look at prior coronaviruses. The (INDISCERNIBLE) held in common has
29 been largely from an animal reservoir, or has been from animal reservoir. If you look
30 at MERS coronavirus and SARS coronavirus, both are considered to have emerged
31 from a -- a bat species as a reservoir into incidental hosts and from incidental hosts
32 moved into humans, and this is the common path that we see with other emerging
33 viruses as well.
- 34
- 35 Q Right. Were you -- in your paper, did you look at any of the genetic sequencing of the
36 virus to come to that determination?
- 37 A No, we leave that to the experts in viral evolution.
- 38
- 39 Q Right. So to the extent that experts who did look at the -- did look at the DNA
40 sequencing of the virus and have concluded that it was likely engineered and came from
41 a lab, would you defer to that opinion?

1 A No. First of all, it's an RNA virus, so there's no DNA. The second thing is -- is that
2 there is no I think common opinion -- well, I should say that, this continues to be a
3 highly debated area in regards to what the sequencing tells us, though it appears that
4 the majority of highly qualified viral evolutionary experts would conclude that this was
5 not engineered. We can't rule out lab leak, but the idea that this was an engineered virus
6 is likely or nearly completely improbable.

7
8 Q Thank you, sir. Now, you state in your paper that you co-authored a publication with
9 other Canadian emergent -- emerging virus experts on the emergence of a new virus
10 then called 2019-nCoV. Was that the first paper that you published with regard to
11 COVID-19, sir?

12 A That was in January 2020, so, yes.

13
14 Q Okay. Now, sir, with regard to your evidence with regard to the report that you
15 provided, you speak of -- and I'm now -- I'm now moving on to page 9, with regard to
16 transmission of the COVID-19 virus?

17 A M-hm.

18
19 Q And your -- you indicate that the virus is transmitted both by droplets and by aerosols;
20 is that correct?

21 A Yes.

22
23 Q And would you agree, sir, that with regard to aerosol transmission, the transmission of
24 the virus can extend beyond 30 metres?

25 A It certainly can extend quite far.

26
27 Q And, sir, with regard to the paper that you presented, you speak of masking as a means
28 of reducing transmission; is that correct?

29 A Yes.

30
31 Q And with regard to the fact that the virus has spread by aerosol transmission, is it your
32 view that people providing their own cloth masks that they wear day in and day out
33 without changing them is an effective -- an effective means of preventing the
34 transmission of the virus?

35 A It certainly can be, depending on what their -- what their consistency is in regards to
36 how they don and doff their mask and how they store their masks. I would defer back
37 to certainly prior publications from -- well, a working paper from 2010 from Dr.
38 Bhattacharya that talked about the benefits of avoidance behaviour reducing 2009
39 pandemic flu and that included both hygiene as well as the use of masks, so this is not
40 a novel concept for SARS-CoV-2 and COVID-19.

41

1 Q But I'm talking about the use of masks, sir, amongst the general population that aren't
2 trained --

3 A Yes.

4

5 Q -- in properly putting them on and taking them off. And, specifically, sir, with regard
6 to cloth masks, would you agree that, as a biochemist or -- or somebody who teaches
7 in the Department of Microbiology, that, in general, the size of the virus is much smaller
8 than the weave of much -- of -- of most cloth masks?

9 A So, sorry, can you repeat that? The diameter of the virus or the size of a droplet?

10

11 Q Yeah, is much smaller -- is much smaller than the weave of most cloth masks that are
12 being worn.

13 A Well, it depends if you are considering that we are seeing a heterogenous mixture of
14 droplets and aerosols or if you are only talking specifically about aerosols.

15

16 Q Well, I'm only speaking of aerosols right now, sir. We've -- it seems to me that you've
17 agreed that the disease is spread by aerosols as much as 30 metres.

18 A Well, I've said that they -- that it is spread by likely both droplets and aerosols.

19

20 Q Right. So -- but with regard to aerosols specifically, sir, would you agree that most
21 cloth masks, or masks generally, used by laypeople do not stop the aerosol transmission
22 of COVID-19?

23 A No, not necessarily, actually. There's been laboratory reports that have looked at the
24 use of different types of masks and looking at the -- the movement of SARS-CoV-2
25 between two dummy heads to see whether or not there was any sort of restriction of
26 viral particles that moved through and this was not something that was only akin to the
27 use of N95s.

28

29 Q But, sir, would you agree that -- generally, that -- that cloth masks worn by people
30 provide little or no protection from SARS -- from SARS COVID-19?

31 A I think that they provide some protection, but it's additive on top of their other
32 behaviours.

33

34 Q Right. And would you agree, sir, that the -- the size of the SARS COVID-19 virus is
35 exceptionally small in comparison with the weave of most commercially available
36 cloth?

37 A SARS-CoV-2 on its own would be -- as a variant would be much smaller, yes.

38

39 Q Right. And that the value of a cloth mask in front of somebody's face would be the
40 equivalent of trying to use a chain link fence stopping a handful of sand being thrown
41 at it?

1 A No, because, again, you are affirming or -- or concluding that the virus is only spread
2 by fine aerosols as single variants at a time whereas, in fact, it may be a heterogenous
3 mixture of both droplets and aerosols where we see aggregates of variants that would
4 be potentially trapped by those masks.

5
6 Q And when you say "may be", is that because you don't know, sir?

7 A I don't think the community knows what the extent of droplets or aerosol contributions
8 are in every situation, depending on the infectious (INDISCERNIBLE) of the particular
9 patient or the particular variant.

10
11 Q And, certainly, sir, masks that don't have a perfect seal around people's noses or at the
12 sides of their face or otherwise are incapable of stopping aerosol transmission; correct?

13 A No, I don't think that's correct because in hospitals we would expect that we would see
14 many more infections than we did when there was no adoption of N95s.

15
16 Q Are you aware, sir, that there's been numerous studies that have been done that indicate
17 that -- that masking has had little or no effect on the transmission of influenza?

18 A I -- I know that it continues to be controversial and I've seen both evidence supporting
19 and against.

20
21 Q Right. So --

22 A So I would again affirm that -- that Dr. Bhattacharya had spoken about the benefits of
23 using avoidance behaviours that included masking for pandemic influenza in the past,
24 so I think that this actually argues for the potential benefit of masking beyond SARS-
25 CoV-2 to other respiratory viruses.

26
27 Q But you're -- you're aware of a number of expert reports or studies that have been -- or
28 a number of studies that have been done that have indicated that -- that masking is not
29 highly effective at stopping the transmission of either influenza or coronaviruses such
30 as SARS COVID-19?

31 A I've seen both for and against.

32
33 Q Right. Now, with regard to your expert report, why didn't you -- did you include very
34 many studies that were -- were against as opposed to for, sir?

35 A No. I was providing evidence for why masking is of benefit.

36
37 Q Right. And you didn't think that it was appropriate, then, to provide the countervailing
38 view, given your obligation as an expert to provide the full story to the Court; is that
39 fair?

40 A My understanding is that that is the job of your expert witness to provide the evidence
41 against.

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Q So your position, then, as an expert is that you're to provide a one-sided report that only supports the position of -- of the person that's engaged you, sir; is that your evidence?

A No. In fact, I've talked about the considerable scientific investigations that have gone in, as well as the conclusions that have been drawn and some of the inferences that can or cannot be made. As well, if you were to look back at my publications, I'm sure you would see as well that I adopt both sides of the evidence.

Q But as far as your report goes, you don't go into great length as to the number of studies that indicate that masking is not particularly effective, all you speak about and all you refer to are studies that claim that masking is effective; is that fair, sir?

A I'm providing what I feel is the best evidence in support of masking and what is the highest quality evidence that's available at the time of this report.

Q Sir, with regard to your evidence concerning the -- and I think there must be -- is there a typo in your report, is it the Alsved report or is that -- is -- is that the correct spelling?

A What page are you looking at, please?

Q Page 15, you -- you refer to Alsved at (l) examined exhaled respiratory particle generation during breathing, talking, and singing.

A That's Alsved. No, I mean, the -- I can take a look to see, but I believe that EndNote has pulled it up as Alsved.

Q Okay. No, fair enough. So -- so that's -- that's the report you're referring to, then?

A Yes.

Q And are you aware of reports that contradict that report, sir?

A Offhand, no, I cannot recall the ones that -- that do contradict the Alsved report specifically.

Q But, certainly, you are aware that there are reports that exist that specifically (INDISCERNIBLE) masks have little or no benefit (INDISCERNIBLE) of -- of COVID-19?

A Yes, I believe that there are some and that there are likely critiques within those for the evidence that they present. But I -- I would also caution as well that if we look at the number of publications that have been published on SARS-CoV-2 or COVID-19 within the last 27 months, it amounts to 6,000 papers per month, so that's 200 papers per day. So there are going to be papers that certainly any expert will miss just due to the breadth of information that's available because this already outweighs the number of total publications that have been published for Ebola in four decades.

1 Q Okay. And in that regard, though, with regard to your report where you come to
2 conclusions like that, do you -- did you undertake a process where you would do a
3 literature search or a literature review to determine whether there were reports out there
4 that contradicted the statements that you made or contradicting the studies that you're
5 referring to in your report prior to (INDISCERNIBLE)?

6 A At the timeframe, I would have looked at what evidence was available and what the --
7 what the -- I guess overarching opinion was of multiple publications that were
8 considered to be of -- of high qualification.
9

10 Q Right.
11

12 MR. RATH: Now, I'm -- My Lady, I -- I need to clarify your
13 previous ruling with regard to the Johns Hopkins study. I had understood with regard to
14 the Johns Hopkins study it wasn't relevant in the context of -- of redirect, however, I think
15 it is relevant in the context of cross-examination of this witness given the wide latitude that
16 we're allowed on cross-examination. So I would like to put the Johns Hopkins study to
17 this witness, have him identify whether he's read it or whether he's seen it, and I would like
18 to ask him whether that study supports his opinion or Dr. Bhattacharya's
19 (INDISCERNIBLE) evidence that he's providing, but I hesitate to do so without first
20 seeking leave of the Court.
21

22 THE COURT: Okay. Thank you. I don't have the exact
23 wording here, but it was clear to me that the objection to the Johns Hopkins report was the
24 fact that it was published long after the period of time that is in issue in this litigation, that
25 it's therefore hindsight and therefore not relevant, either in cross-examination or re-direct.
26 Okay.
27

28 MR. RATH: All right. And, My Lady, just -- again, to clarify
29 that for the greatest of respect, the reason that we -- with -- the reason that we would like
30 to refer to that study now is, whether being in hindsight or not, my friend, Mr. Parker, has
31 opened the door to challenging the credibility of Dr. Bhattacharya having made some very
32 strong statements suggesting that Dr. Bhattacharya was, in fact, engaged in
33 misrepresentation to this Court with regard to the evidence that he's provided. I simply
34 wish this study to be put to this witness for the purpose of asking this witness whether --
35 and regardless of the hindsight issue, this is an -- a separate issue from what was
36 (INDISCERNIBLE) decision maker, not before the decision maker, to put to this witness
37 whether or not in his view this study supports his overall views as set out by his expert
38 report or the overall views of Dr. Bhattacharya as is under his expert report.
39

40 So I think that I would ask you to reconsider your position in this regard given the
41 importance of the study to the matters at issue and certainly to the issues of credibility and

1 the direct insinuation or (INDISCERNIBLE) by my friend, Mr. Parker, in his cross-
2 examination of Dr. Bhattacharya.

3
4 THE COURT: Mr. Parker?

5
6 MR. PARKER: The Johns Hopkins study is not relevant I think
7 for the reasons you've already stated several times. In terms of what else to respond to
8 here, just to be clear, the -- what I put to Dr. Bhattacharya was the description of the original
9 Madewell study was misleading because it refers to meta-analysis of 54 studies when there
10 are, in fact, only four studies in there.

11
12 And the second thing that I suggested to him was the Savaris study and why he didn't bring
13 the retraction to the Court's attention before I brought it to his attention, his answer was
14 that he did, and that's in the transcript.

15
16 Beyond that, I'm not sure what I can -- else I can answer or help you with, Justice Romaine.
17 Thank you.

18
19 THE COURT: Thank you. Mr. Rath, you're bringing forth a
20 distinction without a difference. The Johns Hopkins study is irrelevant because it does not
21 deal with the time of the issues that we're looking at and I don't see any connection, frankly,
22 to Mr. Parker's cross-examination of Dr. Bhattacharya. Okay.

23
24 MR. RATH: Thank you -- thank you, My Lady. We have --
25 we have your guidance. Thank you.

26
27 THE COURT: Okay.

28
29 Q MR. RATH: And, in any event, Dr. Kindrachuk, you'd agree
30 that you're not an economist?

31 A I'm not an economist, no.

32
33 Q You're not a sociologist?

34 A No.

35
36 Q And you have no general expertise with regard to the effect that so-called NPIs may
37 have on broader -- on the broader society?

38 A From a behavioural standpoint, I'm not a behavioural scientist.

39
40 Q No, no, but from -- from a behavioural standpoint, yes, and thank you for
41 acknowledging that you're not a behavioural scientist, that's helpful. Are you also, sir,

1 with regard to when you talk about the suitability of NPIs as a -- for reducing SARS-
2 CoV-2 transmission, your evidence in that regard is strictly limited to what you see as
3 the -- the behaviour of virus particles in the air or otherwise; is that correct?

4 A Well, I think it's working in -- or somebody that works in emerging infectious diseases
5 and outbreak response and outbreak mitigation, we have to appreciate that, while we
6 may not be experts in every arena associated with non-pharmaceutical interventions or
7 mitigation strategies, that we do appreciate that these extend beyond just simple
8 virology.

9
10 Q Right. But in that regard, you're not an expert on the degree to which forcing children
11 from grade school through to grade 12 to retard their socialization within school by
12 wearing masks is going to affect them psychologically; correct?

13 A I'm not a behavioural scientist and I'm not a pediatrician.

14
15 Q Right. And you have no idea as to the extent to which forcing children or others to
16 wear masks against their will may harm them psychologically?

17 A No.

18
19 Q Okay. And with regard to your expertise, you're certainly not an expert on the degree
20 to which lockdown measures may contribute to business bankruptcies?

21 A I'm not an economist.

22
23 Q Okay. And so you have no idea, sir, with regard to NPIs being applied in Alberta as to
24 the number of suicides that have been caused by NPIs being applied in Alberta?

25 A No, I'm not a suicidologist, no.

26
27 Q And you have no information or no expertise with regard to the degree to which NPIs
28 in Alberta have contributed to either alcohol -- or increased alcohol or drug dependency
29 in the province of Alberta?

30 A I do not work in substance abuse or behavioural science.

31
32 Q And with regard to your expertise, sir, you have no expertise with regard to the degree
33 to which the NPIs applied in Alberta have contributed to societal discord or societal
34 breakdown?

35 A No.

36
37 Q And this -- these aren't areas of your expertise?

38 A No, they're not.

39
40 Q Okay. And with regard to Alberta specifically, sir, did you -- to what extent did you
41 examine Alberta's specific data in coming to your opinion?

1 A I've examined my opinions based on world-wide data, Canadian data, as well as
2 regional data.

3
4 Q But not specifically with regard to Alberta; is that fair?

5 A In what regard? In regards to the benefits of masking or the potential effects of the
6 virus on people that have underlying comorbidities that are at high risk?

7
8 Q Well, sir, with regard to Alberta large. Like how much -- how much work and time did
9 you spend reviewing data that specifically applied to the province of Alberta?

10 A I -- I will ask again, in regards to what? In -- in regards to decreasing viral transmission
11 in Alberta specifically versus other regions? Or in regards to underlying severe risks
12 or high risks that may be associated with the Alberta population?

13
14 Q With regard to all of the matters that you provided opinions on in your report.

15 A Sure. So looking certainly at -- at high risk populations and looking at underlying
16 comorbidities in Alberta, if we simply look at the rates of obesity, the rates of cancer,
17 the rates of -- certainly of -- of age in Alberta, what we can get an appreciation for is
18 that the high risk category is not a single variable, but a multiple variable phenomenon
19 that has to be appreciated across a variety of different population data sources within a
20 province.

21
22 When we look at transmission, what we can appreciate is that transmission, while the
23 temporal distribution of transmission rates were different across Canada based on where
24 the virus was first seeded or the variants were first seeded, that the temporal pattern
25 were largely reflective of -- of the different areas of Canada, so we saw a fairly
26 consistent pattern in regards to rise of rates, but we also can appreciate the role of the
27 removal of restrictions or the enacting of restrictions on a regional basis on the -- the
28 potential effects on decreasing transmission.

29
30 Q Right. And now you've -- you seem to appear -- you appear to agree with Dr.
31 Bhattacharya that obesity is an extremely large factor in poor outcomes from -- from
32 COVID-19 infection; is that fair to say?

33 A If I'm not mistaken, and I'll look right now at the -- so the highest risk cases, according
34 to CDC, for -- for underlying comorbidities would be cancers, (INDISCERNIBLE)
35 vascular disease, chronic kidney disease, chronic lung disease, diabetes,
36 (INDISCERNIBLE), CF, heart conditions, and obesity is considered as part of that as
37 well as pregnancy.

38
39 Q Right. Now -- and as far as that goes, sir, would you agree that with Dr. Bhattacharya
40 (INDISCERNIBLE), and it may well be because of the high correlation of all of those
41 other conditions amongst the aged that -- that poor outcomes from COVID-19 are

1 predominantly amongst an identifiable population over the age of 70; is that fair to say?

2 A No, I think it would depend on your debate or your consideration of what poor outcomes
3 is. If you're looking at fatalities, yes, we see higher rates of fatalities in people that are
4 in higher age groups. Now, if we start to look at -- at rates of severe disease, there is
5 some relation to age, but there's relation to a variety of other factors and, in fact, we
6 saw that moving through the Delta wave in Canada as younger age groups were starting
7 to -- to be represented -- or of high representation in regards to hospitalization and ICU
8 admissions.

9
10 Q Right. Sir, are you aware that -- and, again, with regard to younger populations, that
11 there -- there appears -- there appeared in Alberta AHS data to be a fairly high
12 correlation between hospitalizations and the administration of the first COVID-19
13 vaccination?

14 A No. I would -- I would caution on any sort of data that has not been validated to show
15 that there were -- that there was causation between vaccinations and young people
16 ending up in the hospital versus a correlation.

17
18 Q But you are aware, sir, aren't you, of -- of graphs that were generated by Alberta Health
19 Services that were subsequently -- that were publicly available for months that were
20 then subsequently scrubbed from their -- from their website that indicated that within
21 the first -- within the first 14 days of a COVID vaccination shot being administered that
22 there was a fairly substantial increase both in case counts, hospitalizations, and deaths
23 following the first shot of the COVID-19 vaccine?

24 A Again, is that -- are you trying to imply correlation or causation?

25
26 Q Well, we'll put -- we'll put the -- we'll put the graph to you, sir, and you can ask -- you
27 can answer whether you've seen it or not. Have you seen these graphs before, sir?

28 A I have a long time ago. Now, this would -- without context, a graph is a graph. So
29 without being able to show whether this is correlative based on behavioural changes in
30 -- in those people within the first 14 days of being vaccinated, in regards to their
31 behaviours, whether they were infected because we would not assume to see protection
32 during that timeframe from the virus, those are considerations we would have to make.

33
34 Q Right. And you've -- and you've also seen that same graph with regard to the spike in
35 deaths; is that correct?

36 A I've not seen one in regards to a spike in deaths.

37
38 Q Oh, oh, I'm sorry, we'll put that up. It should be there, I -- I think I put it up. I can have
39 my friend, Ms. Newton, try to do a better job than I did. It should be there.

40 A Right. So, again, without context, are these people that were infected prior to getting
41 vaccinated or infected post-vaccination? What were the underlying health risks that

1 were attributable to those? And has there been any causation shown between
2 vaccination and those deaths?

3
4 Q Excellent. So those are all very good questions, Dr. Kindrachuk. You've seen those
5 graphs, did you ever attempt to answer those questions yourself?

6 A For Alberta specifically, no, but for -- certainly, in vaccine outreach programs, I've had
7 -- I've been asked about these types of data numerous times.

8
9 Q Okay. So you don't have any information with regard to Alberta specifically?

10 A Without being able to look at the underlying information to provide context, I won't
11 comment on -- I can't comment as an expert on what these graphs say outside of saying
12 this could be correlative in nature and not -- you know, barring not seeing specific
13 reports that have led to a stoppage in vaccination within kids across Alberta or across
14 Canada due to these concerns, that -- that would suggest that there was not causation.

15
16 Q Now, with regard to these graphs --

17
18 MR. PARKER: Sorry, I'm just going to object on relevance
19 grounds, Justice Romaine. I've let this go for a while, but I think it's appropriate to object
20 on relevance. Thank you.

21
22 THE COURT: Okay. Mr. Rath?

23
24 MR. RATH: I'm not finished my line of questioning with
25 regard to these graphs and I think the -- the relevance will be quite -- will become quite
26 apparent as I finish my questioning. I -- I -- as far as I'm concerned, this objection on the
27 grounds of relevance by my friend, you know, is simply an attempt to foreclose my line of
28 questioning before it concludes. If people can certainly be patient, I'll get to the relevance
29 of it shortly.

30
31 THE COURT: Okay. I'll give you some leeway to finish your
32 questions.

33
34 And, of course, Mr. Parker, you can feel free to object after Mr. Rath has finished his
35 questions or at a time where it appears to be obvious where he's going.

36
37 Q MR. RATH: Now, Dr. Kindrachuk, are you aware of any
38 studies that indicate that -- that the COVID-19 vaccines utilized in Canada, in fact,
39 suppress the immune system in the individual that's been vaccinated for a brief period
40 of time?

41 A There certainly has been data that -- or there have been groups that have looked into

1 consideration and that, if there is any concern with transparency, that it's going to
2 decrease vaccine uptake, which is counter to what we were trying to provide.

3
4 Q Right. And to the extent that there is evidence, sir, that people were more susceptible
5 to either catching COVID or -- or being infected with COVID or, alternatively, if they
6 were already infected with COVID, being more at risk from hospitalization or death, is
7 it your view that public health officials should have been warning people who were
8 vaccinated with the first shot that they should isolate themselves for 14 days following
9 the first shot to prevent these outcomes?

10 A Sorry, I just want to -- I want to clarify here. You just said that they were more
11 susceptible following their first dose of vaccine to being infected as compared to
12 somebody that was unvaccinated; is that -- is that what you -- what you just said?

13
14 Q That seems to be what these graphs indicate, sir.

15 A I'm -- I'm asking -- so that -- that's not correct. There is -- there is no substantive data
16 in the literature that has been presented that has suggested that following the first dose
17 of vaccination that you were more susceptible to becoming infected than somebody
18 who is unvaccinated. That's -- that's a very, very specific point that you would need to
19 be able to show correlation through. Now -- or, sorry, causation. You can -- you can
20 try and surmise that there is correlation, but that correlation does not take into account
21 avoidance behaviours, transmission rates in the community, age, different
22 demographics, all those considerations would have to be taken into account to be able
23 to show that there is a specific correlation between being vaccinated and an increased
24 risk of being infected.

25
26 Q Right. But notwithstanding that these graphs indicate that there may be correlation, are
27 you aware of any studies that have been done or have you done any studies to determine
28 that this is not the case with regard to citizens of Alberta or elsewhere?

29
30 MR. PARKER: I'm -- I'm going to interject to object again on
31 relevance. My friend indicated that he would be getting to a point where the relevance
32 would be obvious and, with respect, he hasn't got there. I'm referring to the amended
33 originating application, the pleadings in this matter, and the schedule attached to it, the
34 impugned orders, again, the relevance of these questions is completely unclear.

35
36 MR. RATH: Well, if it's of assistance to my friend, My Lady,
37 certainly, to the extent that the graph (INDISCERNIBLE) on the AHS website contained
38 what appeared to be a correlation between first (INDISCERNIBLE) to COVID-19 and a
39 spike in COVID-19 cases, COVID-19 hospitalizations, and COVID-19 deaths. I think it
40 -- it certainly is relevant to ask this witness questions with regard to whether or not it would
41 have been sound public health practice to advise people who were vaccinated with the first

1 dose to isolate themselves for 14 days after the first dose to prevent hospitalization --
2 hospitalization or death. It's certainly relevant to the issue of NPIs and I'm just -- I'm trying
3 to get to the point with this witness, My Lady, as to the extent to which the Government of
4 Alberta has engaged in poor public health practice by not advising people who'd been
5 vaccinated to stay home as a -- as an NPI following their first shot. So I think it's clearly
6 relevant to what we're dealing with.

7
8 THE COURT: Well, Mr. Rath, you've started with some graphs
9 that you put to the witness and, as he's indicated, without context, he really can't make very
10 many comments on them and now you've switched to a question which I think probably
11 you should be putting in an assumption, you know, or just assume that the Government of
12 Alberta had information that they kept from the public with respect to not advising people
13 to stay home, perhaps the witness might be able to answer that question, but that's not the
14 way you've proceeded.

15
16 MR. RATH: Well, then I'll -- I'll reframe the question, My
17 Lady.

18
19 Q MR. RATH: Dr. Kindrachuk, with regard to these graphs and
20 what you appear to acknowledge is a correlation between the -- between people
21 receiving a first shot and a spike in hospitalizations and deaths, do you think that it
22 would have been sound public health practice to suggest to citizens of Alberta that they
23 isolate for 14 days after receiving their first shot?

24 A No, I -- I don't. From my standpoint, the -- the recommendations globally in regards to
25 vaccination were and have continued to be to exercise due caution following the first
26 dose and even the second dose of vaccination because their protective effect was not
27 100 percent and it was not immediate, so that involved continuing to use avoidance
28 behaviours to ensure that you did not assume that your risk of becoming infected was
29 negated. And if we look at -- at the graphs and we see that those again skew towards
30 higher risk groups, those recommendations continue to be important. It is not -- it is
31 not necessarily implied that people -- and I have not seen any data to suggest that people
32 following their first dose of vaccine were more prone to infection. That certainly would
33 have been reported and would have made headlines across the globe considering all of
34 the -- all -- the spotlight that's been put on vaccination. I (INDISCERNIBLE) we have
35 to consider that people that are vaccinated may change their behavioural patterns
36 following a -- a dosage of vaccine, including in areas where there continues to be high
37 transmission rates.

38
39 Q So you're not aware, then, sir, that when these graphs were first reported by Alex
40 Berenson that, the very next day, these graphs were scrubbed from the AHS website,
41 you have no knowledge about that, sir?

1 A This is -- this is Alex Berenson who was banned off of Twitter for misinformation? No,
2 I (INDISCERNIBLE) --

3

4 Q Well, I'm not sure what -- I'm not sure, sir, what Twitter has to do with anything. I'm
5 saying that the minute it was --

6 A I'm just asking as -- as far as being --

7

8 Q -- (INDISCERNIBLE) --

9

10 THE COURT: Mr. Rath? Mr. Rath? Mr. Rath? Let Dr.
11 Kindrachuk answer that question.

12

13 Go ahead, doctor.

14

15 A I'm replying that Alex Berenson is not an expert in this area of work and, considering
16 that -- that you've called my qualifications into -- into question in regards to my
17 understanding of emergent infectious diseases and NPIs, I'd be surprised that you would
18 use Alex Berenson as an expert.

19

20 Q MR. RATH: Sir, I'm not using him as an expert, sir. I'm -- I
21 was simply asking you of whether you were aware that the day after that these graphs
22 were first publicly reported, which to my knowledge was by Alex Berenson not
23 purporting to be an expert, that this information was scrubbed from the AHS website;
24 are you aware of that, sir, yes or no?

25 A No, I'm not. But I also would not imply causation. Again, correlation does not equal
26 causation.

27

28 Q All right. Thank you, sir. I have your answer.

29

30 MR. RATH: Justice Romaine, on relevance, again, I don't
31 understand that there's an allegation in the pleadings of vaccination caused COVID and
32 this is not a public inquiry and so, again, I restate the concern about relevance of this line
33 of questions.

34

35 THE COURT: Okay. Mr. Rath?

36

37 MR. RATH: It's simply a point we'll be -- it's simply a point
38 we'll be raising in argument, My Lady. It's clear that the Government of Alberta is -- is
39 quite open to imposing NPIs across a broad (INDISCERNIBLE) of the healthy Alberta
40 population, but where they have that direct evidence that there's a correlation between the
41 first immunization and a spike in hospitalizations and deaths, they don't provide any

1 guidance for the Alberta population with regard to isolating themselves after their first shot.
2 I'm -- I'm done on this line of questioning, in any event.

3
4 THE COURT: It's good that you're done because I agree with
5 respect to relevance that the questions were of dubious relevance, but let's not take it any
6 further.

7
8 MR. RATH: Thank you, My Lady.

9
10 Q MR. RATH: Now, something else, Dr. Kindrachuk. In your
11 report, you speak to reproductive health concerns with regard to COVID-19.

12 A Yes.

13
14 Q Are you aware of reproductive health concerns that have been raised with regard to
15 COVID-19 vaccination?

16 A In regards to COVID vaccination, no. In regards to COVID infection, yes. There was
17 a paper that was released, I believe a couple of days ago, if not earlier, that looked
18 specifically at this phenomenon in infected hamsters and did find that there was an
19 impact of COVID-19 and SARS-CoV-2 infection on the potential reproductive health
20 and, certainly, the testicular health of infected hamsters.

21
22 Q Right. And you're not aware of any studies or any papers that have been done with
23 regard to reproductive issues arising from COVID-19 vaccines?

24 A Well, I think if you look back at the clinical trials and, certainly, at the litany of data
25 that has followed following the -- the mass vaccination programs across the globe, the
26 one signal we have not seen has been reproductive health problems in regards to
27 fertility, in regards to pregnancy, or delivery of healthy children.

28
29 Q So within the VAERS system, or the vaccine reporting system, sir, you're not aware of
30 any increase in miscarriages, as an example?

31 A Let me ask this. Is VAERS validated information? VAERS is not -- VAERS -- VAERS
32 is the --

33
34 Q Sir, I'm asking -- I'm asking you a question, I'm not --

35 A Because VAERS -- VAERS is a public access system that is non-validated information
36 and that has not -- and that has not been validated clinically --

37
38 Q Right.

39 A -- and that is why CDC continues to recommend caution in any interpretation of
40 VAERS data because you can -- you as an individual can input information publicly.

41

1 Q Right. So your -- your evidence is that this VAERS system that's been in place for well
2 over 30 years, with regard to COVID -- with regard to COVID-19, somehow or other,
3 we have a number of people making mischief reports and the -- and the data cannot be
4 relied on; is that your evidence?

5 A I think that it's been well documented that these -- that there have been mischief reports
6 or, again, correlations. I believe one of the correlations was somebody that died
7 following COVID vaccination by being struck by lightning and also other cases of
8 people that have died following vaccination because of car crashes.

9
10 Q And, certainly, we've had the same thing with regard to people having allegedly died
11 from COVID-19 who, in fact, died from car crashes; is that correct?

12 A Sure. That -- that were -- well, would they have been diagnosed -- sorry, would they
13 have been tested following that car crash without any prior information available to
14 suggest that they were severely ill?

15
16 Q So -- but as far as it goes, sir, you're aware that there's been any number of deaths that
17 have been attributed to COVID-19 that, in fact, weren't caused by COVID-19 but were,
18 in fact, as a result of other comorbidities, accidents, or whatever, and that, simply,
19 people who tested positive for COVID-19 were marked down as COVID fatality;
20 correct?

21 A That's also implying that people that had underlying comorbidities that if they were
22 infected by COVID-19, that COVID-19 did not exacerbate that particular comorbidity.
23 So they may not have died of a respiratory disease, but being able to, again, show that
24 there was no causation between that is a different question and continues to need to be
25 analyzed, assessed.

26
27 Q Right. And with regard to people that were, in fact, in motorcycle accidents or car
28 crashes that tested positive for COVID-19, those people -- those people would fall into
29 that same category of evidence that you were just discussing?

30 A They -- they should -- if they were included in the overall COVID-19 fatality reports,
31 that -- that would be a concern, but that's a big question as to whether or not that has
32 been occurring.

33
34 Q And with regard, sir, to your attempts to diminish vaccine injury reporting in Canada
35 and the United States, have you seen any studies that have estimated the degree to which
36 -- or the percentage of reports on the VAERS system may -- may have been
37 exaggerated?

38
39 MR. PARKER: I'm going to object again on relevance. There's
40 nothing in the pleadings that makes the issue of vaccinations causing COVID-19 or
41 vaccinations causing reproductive health issues relevant to this matter and these questions

1 are all continuing, in my submission, an irrelevant line of questioning.

2

3 MR. RATH: It's certainly not irrelevant, My Lady. This is --
4 he's raised issues in his report with regard to reproductive health concerns arising from
5 COVID-19. Let me -- let me ask (INDISCERNIBLE).

6

7 Q MR. RATH: So are you aware of any studies, Dr. Kindrachuk,
8 that --

9

10 THE COURT: Wait a minute. Mr. Rath? Mr. Rath?

11

12 MR. RATH: Yes.

13

14 THE COURT: You're responding to Mr. Parker's objection on
15 the basis of relevance.

16

17 MR. RATH: I'm not -- I've asked the question and the witness
18 has answered it, so I'm not -- I was just moving on to my next question. I mean, my friend
19 can make whatever submissions he wants in argument with regard to the weight that should
20 be attached to the answer. I'm not -- you know, I'm not -- you know, I'm in your hands in
21 that regard. I think the question was relevant and if I could ask the next question, I think
22 you'd see the relevance, My Lady.

23

24 THE COURT: Mr. Parker, do you agree that we've gone past
25 that point and do you want to wait to hear the next question from Mr. Rath?

26

27 MR. PARKER: I didn't hear -- certainly. I didn't hear the
28 response to the last question. I got the objection and I don't think it was answered. I -- I
29 can certainly listen to the next question, but given what I've said already, focusing on the
30 pleadings, these questions -- this line of questioning all seems irrelevant to me but,
31 certainly, if my friend wishes to ask it, I will listen and object if appropriate.

32

33 THE COURT: Okay. Thank you.

34

35 Mr. Rath, you can ask your next question.

36

37 MR. RATH: Thank you.

38

39 Q MR. RATH: Dr. Kindrachuk, are you aware of any studies
40 that differentiate between so-called reproductive health concerns or long-term effects
41 from COVID-19 infection and COVID vaccine injury? So have there been any studies

1 that have attempted to distinguish between what you characterize as COVID-19 related
2 long-term effects and vaccine related effects?

3 A If -- if I am hearing you correctly, you're asking if there have been direct implications
4 of COVID-19 on either testicular health or reproductive health that were not related or
5 could be separated from potential vaccine induced fertility concerns and reproductive
6 health concerns?

7
8 Q Yes.

9 A Yes. So there's -- I'm looking right now at a letter in eClinicalMedicine that's part of
10 the Lancet series of articles from November 29th, 2020 titled, COVID-19 and
11 impairment of spermatogenesis: Implications drawn from pathological alterations in
12 testicles and seminal parameters. This area of research is obviously very close to me if
13 -- if you look at my CV because I work on this specific problem in Ebola virus disease
14 and the long-term reproductive health and mental health impacts of reproductive -- of
15 the Ebola virus disease.

16
17 So, COVID-19, we do see at least some signatures or some concerning signs that the
18 disease itself can have an impact, or may have an impact, on long-term reproductive
19 health in males. This will need to be continued to -- to be researched, but it -- there is
20 a potential implication because the virus can make its way into the testes and if it has
21 an impact on spermatogenesis, may have an impact on long-term fertility.

22
23 Q Right. But with regard to that paragraph, you'd agree with regard to the 2020 studies
24 that those studies would have been done prior to the advent of vaccines?

25 A That was November 29th, 2020, so, no the third -- the phase 3 clinical trials would have
26 been wrapping up by that point in time considering that vaccines were introduced in the
27 UK by December of 2020.

28
29 Q But you don't know whether the people included in the study were vaccinated or
30 unvaccinated, do you, sir?

31 A We can look up those -- those parameters. All of that would be -- would be also -- these
32 people would not have been vaccinated if they weren't in the clinical trial.

33
34 Q Yeah. So those -- those studies refer to unvaccinated people; correct?

35 A To unvaccinated people, yes.

36
37 Q Right. And the 2021 study, would that also apply to unvaccinated people?

38 A Which 2021 study?

39
40 Q Kotlyar et al at 2021.

41 A I see. And on what -- which page?

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Q Page 22, sir, of your report.

A That 22 -- by the page numbers are 22 on pages -- just a second.

Q Oh, it's 22 -- it's page number 22 at the top and 20 at the bottom, so I'm not sure which page you're going off of.

MR. PARKER: We're using the top right-hand corner, Mr. Rath. That's the number out of 1,236. There's a practice note that requires you to number these documents sequentially and so that's what we've done.

MR. RATH: Well, I -- I was referring to page 22 in the top right corner, so I'm not sure where the confusion is.

A The confusion may be because there's a top right corner and a top bottom corner number for the page numbers.

Q MR. RATH: I'm referring to page 22 on the top right corner, Dr. Kindrachuk.

A Yeah, I'm pulling that paper up right now.

Q The paragraph that starts, "Insights regarding", it's -- it carries over from the previous page, but --

A Where it says, Vertical transmission of coronavirus disease 2019: a systematic and meta-analysis review?

Q No. It starts, "Insights regarding the potential for COVID-19 related complications during pregnancy". And then you say Yang et al provides evidence that, "COVID-19 infection during the later pregnancy is associated with increased risks of adverse birth outcomes". Also recently provided evidence for vertical transmission in the third trimester, and you're referring to a 2021 study.

A That's the one that I just cited you with the title, that's the Kotlyar et al paper, that's the vertical transmission (INDISCERNIBLE).

Q From 2021.

A Yes.

Q And your evidence is that that's referring to unvaccinated people or --

A I would have to look back at -- I would have to look back at the systematic meta-analysis as to what the inclusion or exclusion criteria were in each of those studies.

1 Q Right. And so -- and so my question is, sir, are you aware of any studies that -- that
2 differentiate between unvaccinated and vaccinated people in terms of these poor
3 outcomes that you're referring to?

4 A Well, yes, because in the phase 3 trials, part of the reporting information would have
5 been whether or not there was impact on -- on fertility or child birth or pregnancy. And
6 as well, in the phase 4, or out marketing approach, there continues to be a reporting
7 system for -- for the vaccines for adverse events that are recognized.
8

9 Q Right. So -- but within these studies, is there any mechanism to differentiate between
10 COVID-19 related injuries and vaccine related injuries?

11 A Yeah, depending on whether or not the patients were vaccinated and whether or not
12 there have been in the literature any reports in regards to fertility or reproductive health
13 impacts of vaccination for either these vaccines for COVID-19 or other vaccines that
14 have been seen previously. This is a continued trope that we have heard certainly from
15 vaccine reluctant groups for many, many years now in regards to the potential impacts
16 of vaccination on fertility and on long-term reproductive health.
17

18 Q Sir, it's -- it's simply a question, it's not a trope or a statement, I'm -- I'm simply asking
19 you --

20 A I'm -- I'm providing some background for the context of -- of why this question
21 continues to come up.
22

23 Q I'm sorry, sir, could you repeat that for the record?

24 A Yes. I'm providing some context for the fact that this is not just a -- a novel question
25 for the COVID-19 vaccines, but this has been a question that has continually come up
26 for other vaccines, yet, we have not seen a linkage between reproductive health issues
27 and vaccination.
28

29 MR. RATH: All right. Thank you. I believe those are all my
30 questions. I'll turn it over to my friend, Mr. Grey.
31

32 MR. GREY: Sorry. Madam Justice, I have it as 12:33 now. I
33 heard Mr. Parker say earlier that Dr. Kindrachuk would only be available until 1:00. I -- I
34 don't expect I could finish with the witness in 26 or 27 minutes. I could start, if you'd like,
35 and we can carry on later, but I'd rather -- I'd rather not do that, unless that's required.
36

37 THE COURT: Mr. Parker, is -- is Dr. Kindrachuk available at a
38 later time?
39

40 MR. PARKER: Not today.
41

1 Dr. Kindrachuk, I understood you had a 2 and a half hour time slot you're available
2 tomorrow; is that correct, sir?

3
4 A That is correct. And I believe we had talked about -- that's -- so that was I believe 11
5 to 1:30 mountain time tomorrow.

6
7 MR. PARKER: Okay. So, Justice Romaine, Dr. Kindrachuk is
8 available 11 to 1:30 mountain time tomorrow. I understand he has a hard out at 1:30, just
9 as he does today at 1:00. If my friend feels he can finish in that time tomorrow and we can
10 get redirect done, then no problem in breaking now. On the other hand, we could get part
11 of it done now and finish off tomorrow since it appears Dr. Kindrachuk will have to come
12 back tomorrow either way.

13
14 THE COURT: Mr. Grey, do you think you can finish your cross-
15 examination with enough time for redirect between 11 and 1:30 tomorrow?

16
17 MR. GREY: Yes, I think there -- that would be plenty of time.
18 I prefer not to break -- break it up between today and tomorrow and I regret, Dr.
19 Kindrachuk, inconveniencing you, but I -- but I really do request, My Lady, that -- I -- I
20 prefer to start tomorrow rather than break it up between today and tomorrow.

21
22 THE COURT: Okay. So if we break for lunch now for an hour,
23 can we start with Dr. Zelyas, I guess would be the next witness, Mr. Parker? Could we
24 start with him?

25
26 MR. PARKER: He's -- he's available at 2. We booked him from
27 2 to 5 just in case --

28
29 THE COURT: Okay.

30
31 MR. PARKER: -- although, I'm told it shouldn't take anywhere
32 near that long. So we have him up at 2:00, we could -- we could do the opening statement
33 before then or whatever you prefer.

34
35 THE COURT: Okay. Well, then, why don't we take our usual 1
36 hour and, Mr. Parker, if you could then give your opening statement, we'll be able to use
37 the time. Okay.

38
39 MR. PARKER: Okay. Will do. Thank you.

40
41 THE COURT: Okay. Thank you.

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(WITNESS STANDS DOWN)

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5 at Calgary, Alberta, on the 22nd day of February, 2022, and that I was the court official in
6 charge of the sound-recording machine during the proceedings.
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16 Dated: February 23, 2022

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