Special Commission of Inquiry

into Healthcare Funding

Before: The Commissioner, Mr Richard Beasley SC

At Level 2, 121 Macquarie Street, Sydney, New South Wales

Monday, 26 February 2024 at 10.00am

(Day 010)

Mr	Ed Muston SC	(Senior Counsel Assisting)
Mr	Ross Glover	(Counsel Assisting)
Mr	Ian Fraser	(Counsel Assisting_
Mr	Dan Fuller	(Counsel Assisting)
Dr	Tamsin Waterhouse	(Counsel Assisting)

Also present:

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Mr Lachlan Gyles SC with Ms Joanna Davidson for NSW Health

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1 MR MUSTON: Good morning, Commissioner. We are moving now 2 to the innovation phase of this hearing block. There will 3 obviously be some overlap between what we're discussing 4 this morning and some of the procurement issues that were 5 raised last week, but that's where we're at. 6 I do think we have a formal tender of some 7 8 confidential documents and an order that needs to be made 9 in respect of confidentiality but I won't deal with that 10 immediately. 11 THE COMMISSIONER: 12 Okay. 13 14 MR MUSTON: Ms Waterhouse is going to deal with this 15 witness. 16 17 THE COMMISSIONER: Thank you. 18 DR WATERHOUSE: 19 Commissioner, the witness is already in 20 It is Adjunct Professor Jéan-Fredéric the witness box. 21 Levesque. I will spell his name in full for the court 22 reporter, J-É-A-N-hyphen-F-R-É-D-E-R-I-C L-E-V-E-S-Q-U-E. 23 <JÉAN-FREDÉRIC LEVESQUE, affirmed:</pre> 24 [10.01am] 25 26 <EXAMINATION BY DR WATERHOUSE: 27 28 DR WATERHOUSE: Q. Dr Levesque, can you please state 29 your full name and also your occupation? My name is Jéan-Fredéric Levesque, I'm deputy 30 Α. 31 secretary for clinical innovation and research in 32 NSW Health and I'm the chief executive of the Agency for 33 Clinical Innovation, also within NSW Health. 34 35 Q. How long have you been in this role? 36 Α. I've been in the role of deputy secretary for 12 months and I've been the chief executive of the Agency 37 for Clinical Innovation for a little bit less than six 38 39 years. 40 41 Q. And what roles have you held before that? Within NSW Health I've also been chief executive of 42 Α. 43 the Bureau of Health Information and previously I had 44 various professional roles in Canada, before migrating to 45 Australia. 46 And can you outline for us your qualifications? 47 Q.

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1 Α. I'm a medical doctor by training. I've got 2 a specialisation in preventive medicine and public health 3 and I'm a fellow of the Royal College of Physicians and 4 Surgeons of Canada and I also have a PhD in public health 5 from University of Montreal. 6 7 You have prepared a statement to assist Q. Thank you. 8 the Commission, and I believe that statement is dated 9 30 January 2024. You have a copy of the statement with 10 you? Yes, I do. 11 Α. 12 13 DR WATERHOUSE: We might just bring that up on the screen, 14 if we could, it is exhibit B.003 [MOH.0001.0435.0001]. 15 16 Have you had a chance to review the statement before Q. 17 giving evidence today? 18 Yes. Α. 19 20 Q. And is the content true and correct to the best of 21 your knowledge and belief? 22 Yes, it is. Α. 23 24 We might scroll down to paragraph 4. Q. In that paragraph you refer to the creation of the clinical 25 innovation and research division approximately one year 26 27 ago, February 2023. What was the rationale for developing 28 this or establishing this division and what do you see as 29 the advantages? There were various goals in establishing the division, 30 Α. bringing together the Office for Health and Medical 31 32 Research and the Agency for Clinical Innovation and the 33 first one was really to lift research and innovation as 34 a key priority for NSW Health, really send the signal that it is an important component of the system and something 35 36 that we need to continue to progress. 37 There was also a desire to better coordinate the work 38 across the entire continuum from research, discoveries and 39 40 implementation in the real healthcare system. So the 41 objectives were really to ensure that we would have more 42 visibility from a research perspective and also really 43 align our work for stronger impact on the system. 44 45 Can you see any disadvantages to creating it as Q. 46 a division in the ministry? I don't see any disadvantages. I think that it's 47 Α.

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1 really creating an opportunity for better aligning our 2 investments in research with the efforts that we're making 3 to translate them into clinical practice. 4 5 The only thing that we need to manage as part of this arrangement is the fact that the Agency for Clinical 6 Innovation is a pillar of NSW Health and therefore, you 7 8 know, we've had to establish different ways to manage 9 a pillar and branches of the ministry, working together, 10 but again, it's a great opportunity to actually be able to make a pillar work so closely with branches of the 11 ministry, it was just a matter of establishing the right 12 13 governance processes. 14 Q. One of the terms of reference --15 16 17 THE COMMISSIONER: Q. Sorry, so the division of clinical 18 innovation and research is part of the Ministry of Health? 19 Α. It is. 20 21 Q. So the ACI and the Office for Health and Medical 22 Research, it says, "were integrated to form a new division". I don't quite - the ACI still stands alone as 23 a pillar - ves? 24 Yes, it does. 25 Α. 26 27 And there's the Office for Health and Medical Q. 28 Research - that stands alone as an office? 29 Α. It's one of the branches, yes. 30 31 And what is the form of integration to form this Q. 32 division of clinical innovation and research? 33 Well, the first thing, Commissioner, is that both of Α. 34 those units are led by the same person, myself. 35 36 Q. That's vou? So I'm deputy secretary, you know, supervising all of 37 Α. the research and innovation work across the system for 38 NSW Health and I'm the chief executive of the Agency for 39 40 Clinical Innovation. So in this way, there was a first 41 level of integration. And then from a functional perspective, the management structures within ACI as well 42 43 as OHMR and the small structures that enable me to lead the 44 division in a more coordinated way all meet together in 45 planning our activities. There is --46 There might be a really good reason for this, and this 47 Q.

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1 is your chance to tell us why, it just sounds like it 2 should be the one organisation. The division of clinical 3 innovation sounds a lot like the Agency for Clinical 4 Innovation. Obviously I'm missing something as to why it's 5 been done this way as distinct from just all of these three entities being the one organisation. 6 7 The Agency for Clinical Innovation as a pillar Α. 8 organisation, like other pillars, has a role to provide advice to the ministry, provide advice to the system in an 9 10 impartial way, as pillar organisation, and that arm's 11 length role was seen as an advantage in keeping the agency 12 as a separate entity from a legal perspective, but really aligning it through its leadership with the work of OHMR, 13 14 the work of the critical intelligence unit, within a division so that we better coordinate the work. 15 16 17 So we were trying to preserve the advantages and the 18 levers that are part of a pillar organisation but by 19 bringing it under a more integrated leadership so that it 20 would really span the entire continuum from grant delivery 21 to working with clinicians through that independent entity 22 for real system change. But really, from a functional perspective, we now have meetings that enable us to 23 24 coordinate the work across the two organisations. 25 DR WATERHOUSE: 26 The Commissioner asked if the OHMR, Q. 27 or Office for Health and Medical Research, was 28 a stand-alone body and I think you responded that it was 29 a branch. Is it, in fact, a branch of the ministry? It's a branch of the division for clinical innovation 30 Α. 31 and research, so, yes, it is a branch of the Ministry of 32 Health, from a legal perspective. 33 34 So the only part that sort of stands alone, Q. 35 effectively, is the ACI? 36 Α. That is correct. 37 Part of the terms of reference for this 38 Q. Thank you. 39 Inquiry is to inquire into the balance between central 40 oversight and locally devolved decision-making. Could 41 bringing the ACI and the OHMR together in this way, into the division in the ministry, be seen as an increase in 42 43 centralisation? 44 I think to answer that question, I need to reflect on Α. 45 what kind of organisation the ACI is. I think it is 46 important, because you'll see that the ACI is an organisation that is already heavily decentralised through 47

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1 its	clinical	networks.
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So the agency has, you know, employees that we directly employ, they include network managers, they include people that have expertise in epidemiology just or organisational studies, data analysis, but the agency, one of its core roles is to lead 42 clinical networks that are made of clinicians working in local districts, working in our different hospitals across the system.

And the number of core fluctuates, but there are 11 12 thousands of clinicians involved in various groups led by 13 those clinical networks, and that really is a way for us to 14 reach very deeply into the system, making sure that we hear from real clinicians, you know, currently working in the 15 16 system about issues that may need to be addressed, or about 17 opportunities in terms of new ways to deliver care, and 18 then bringing it within an organisation that then can 19 mobilise resources to redesign models or to support 20 implementation at the state level.

22 So the ACI is already a very, you know, decentralised 23 structure with that reaching out of clinicians through our 24 work.

26 One of the goals of establishing the division was 27 actually to make sure that we would keep that clinical 28 voice and bring it to the ministry executive so that the 29 ACI being part of or led in an integrated way as part of that division for clinical innovation and research, then we 30 31 could create that, you know, streamlined channel so that 32 the voice of clinicians could be conveyed to the ministry 33 executive in an even more effective way going forward

So I think the reality is that it's not a top-down 35 36 approach; it's not just a bottom-up approach either. It's 37 about balancing those two together so that we have really activities in the system but in a way that it can then get 38 39 into policies and in more integrated and statewide 40 approaches. That's one of the advantages of having 41 established a division as it stands, because we can keep that really essential role of mobilising thousands of 42 43 clinicians for the purpose of innovation, and then 44 integrated to inform policy that is led at the central 45 level as well.

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Q. Would it be fair to say that the decentralisation that

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1 you're referring to there relates to consultation rather 2 than the actual decision-making being on the ground, and 3 that the decision-making is done more centrally by ACI? 4 There has not been any changes following the creation Α. 5 of the division with regards to how ACI makes its We have clinical networks executive committees 6 decisions. 7 and these are made of doctor, nurses, allied health 8 professionals and consumers. They identify the work that 9 they need to do and then have it endorsed by the ACI 10 executive committee. And we also have a clinical executive advisory group that informs the decisions of ACI, and we're 11 12 talking about clinicians from intensive care, surgery, 13 primary care, many different areas.

The ACI still has, as it had in the past, 15 16 a performance agreement with the Ministry of Health, 17 identifying what are the key priorities, what is the work 18 that is emerging from the different networks that we need 19 to bring to scale, and that has not changed following the 20 establishment of the division. So we've really tried 21 again, as part of that transformation, to keep the strong 22 advantages of the current structure, making sure that the voice of clinicians is well coordinated, well supported by 23 24 the ACI, but by having a deputy secretary that leads that 25 agency, you know, interacts with the clinical networks on 26 a regular basis through our own ACI mechanic, then I can 27 bring that clinical voice to the ministry executive, and 28 that was one of the objectives as part of that reform of 29 our structures.

31 I'm going to come back to the ACI in more detail a Q. 32 little bit later. I would like to ask you some questions 33 now about the Office for Health and Medical Research. So 34 if we could just scroll down to paragraph 14, please. 35 Before we go to that, can you just describe for us the purpose and functions of the Office for Health and Medical 36 37 **Research?**

A. Yes. So the Office for Health and Medical Research
has got, as overarching role, to catalyse research into
NSW Health through different ways. Its role is really to
be a central agency that helps local districts, hospitals,
to use and produce research for the purpose of improving
clinical care.

And the office does that through different means.
First, we engage with academic institutions ensuring the
coordination between NSW Health and universities or

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1 research centres. We also administer various grant 2 programs, so we allocate funding to medical research 3 institutes, we allocate funding that is targeted at 4 specific areas of research, so grants in cardiovascular 5 diseases, for example, or in spinal cord injury, and we also work on supporting the governance of research in the 6 7 healthcare system, and that means establishing more 8 standardised ways to manage ethics, confidentiality 9 assurance, that relates to the management of research. 10 And finally we work in partnerships with either 11 12 academic institutions, local health districts research 13 teams or industry, at working on the infrastructure that is 14 required to make specific areas of research more conducive to impacts on the healthcare system. 15 These are the main 16 functions of OHMR and how it, you know, again tries to make 17 research part of the delivery of health care in New South 18 Wales. 19 20 So if we just look at paragraph 14 now, it says that Q. there is a budget of 104.7 million for that, and that's 21 22 this year's budget. Would that be a typical budget for 23 OHMR or have there been any significant changes in recent 24 vears? 25 Α. No, there's not been significant changes, but year on 26 year it will be slightly different, depending on the timing 27 of specific grant programs. So with certain grant programs 28 finishing, some years we could have a reduction, and of 29 course there are always new grants coming in. So there is a bit of fluctuation in the overall budget but over the 30 31 last few years it's been fairly stable. 32 33 Q. So looking just for this year, then, it says at 14b 34 that 44.5 million, which by my calculation is about 42.5 per cent of the total budget, has been allocated to 35 36 the day-to-day costs of running independent medical 37 research institutes. How is the effectiveness of that spend evaluated? 38 There are various ways that we evaluate the impact of 39 Α. 40 our investments within the Office for Health and Medical 41 Research. First, we have a small team that is dedicated to monitoring and evaluation of programs, and we do have to 42 43 report, depending on the source of funding, on the 44 achievements related to our grant funding. 45 46 We do also monitor different indicators of 47 performance, either with regards to the timeliness of

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ethics reviews or governance approvals, and we do receive
reports from the different groups that receive funding from
the office as part of that work.

5 Another area is that we have worked with various academic institutions in progressing stronger frameworks to 6 assess impacts. Traditionally, impacts of health research 7 8 was mostly calculated in terms of number of publications or 9 the grants that those institutions would receive from 10 national funding, for example, but increasingly we're also asking them to reflect on the impact that it has on local 11 policies or specific delivery programs in health care so 12 13 that we can have a more rounded approach.

As part of the medical research support program that 15 16 you're talking about, we do have specific metrics that we 17 revise with them that relates to their academic achievements, and that is also integrated in the review 18 19 of the level of funding that they receive on an ongoing 20 basis, and there have been shifts according to, you know, 21 the performance of those organisations in the more than 22 10 years that the program has been in place. 23

24 Q. Now, given that some of these medical research 25 institutes would be operating in the same space, doing 26 research in similar sorts of conditions, how do you avoid 27 duplication of the way that the money is being distributed, 28 particularly if they're competing for research grants that 29 are the same source, et cetera? So in the case of the medical research institute and 30 Α. 31 the medical research support program, this is 32 infrastructure funding. So it's not funding that we give 33 for specific research activities, it's really to support 34 them as organisations so that they can be functioning in an efficient way, an effective way, and it's for their 35 36 researchers to actually determine what are the programs that they will apply to receive operating expenditure as 37 part of grant programs. 38

40 We do have conversations with the entire sector, we 41 meet with the various associations, including the Association of Medical Research Institutes that we have in 42 43 New South Wales, on a regular basis, and therefore, at 44 times we do provide advice if we feel that there are 45 certain areas where, you know, there's opportunities for 46 new research to be conducted. But again, the funding that we give is not tied to that; it's really infrastructure 47

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1 funding, helping them to exist as centres. 2 3 Q. If we go to paragraph 14c, that's about medical 4 technology and commercialisation initiatives. Can you tell 5 us a bit more about that? So the Medical Devices Fund is a fund that was 6 Yes. Α. 7 established around 10 years ago. It's a fund that aims at 8 helping start-ups and other companies or clinicians that 9 have great ideas in terms of how medical technologies can 10 actually help to deliver care in a different way, to 11 accelerate their projects. 12 13 So what we do in that program is we give grants on 14 a competitive basis, so we have independent committees assessing the proposals, and the most promising medical 15 16 devices are selected for funding and that enables them to 17 do the work that they need to at times bring those medical devices to a commercialisation stage, which means that they 18 can then start to sell these medical devices on the market. 19 20 We select only a few of the, you know, all of the 21 22 proposals that we receive, and we provide them with support in different ways to make sure that we increase their 23 capabilities for commercialisation. Many of those devices 24 25 are created by clinicians working in our system and, 26 therefore, we need to help them to better understand how do 27 you manage intellectual property, how do you engage with 28 people that can potentially provide funding, how do you 29 advertise and promote your medical device for it to be a successful endeavour? 30 31 32 That's what the commercialisation training program 33 does and the Brandon BioCatalyst collaboration does as Those two structures are enabling us to provide 34 well. 35 a wrap around the programs so that we ensure that we're not 36 just investing money to help those medical devices to be successful, we're also providing them the support so that 37 they can really truly accelerate their development and 38 ensure their success. 39 40 41 Q. You mentioned Brandon BioCatalyst. Can you tell us 42 what that is exactly and what is its role? 43 Α. Brandon BioCatalyst is an Australian venture capital 44 fund and in our case, they participate in the 45 commercialisation training program to give advice to the 46 medical device fund trainees about the best way to engage with funders, so that they can bring their innovations to 47

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the next stage of funding. The Medical Devices Fund is really just an acceleration fund. At some point, some of those companies are at a stage where they need to produce at a larger scale and that's the advice that they - you know, that's the advice that Brandon BioCatalyst provides within our context.

8 Q. And when you say the most promising of the very many 9 proposals that you receive are the ones that are supported, 10 is that the most promising in the sense of being 11 commercially successful or addressing patient problems or 12 having the most impact on patient outcomes? What's the 13 measure?

14 It's both of those things, and the committees that Α. 15 evaluate the candidates every year have specific criteria 16 that they use to assess them, and it includes the stage of 17 development of those medical devices, so have they already demonstrated that, you know, it can work? It includes the 18 19 potential impact on patients and on the healthcare system, 20 because sometimes those medical devices will help to 21 deliver more care for patients or deliver technologies that 22 are enhancing the current treatments that we have for 23 patients; but it's also with regards to their economic 24 This is really about ensuring that our clinical potential. 25 entrepreneurs can be supported.

So all of those different aspects are part of the decisions. This is not something that I control. We've got peer review groups that do that in an independent way and then recommend to the program which candidates should be supported.

33 Q. Can you give us some examples of particular devices or 34 initiatives that have been commercialised in this way after 35 being developed by people working in the system? 36 There are many examples, given the fact that we've Α. supported more than 40, if I remember, different devices 37 through the years - or, sorry, 80 different medical 38 devices. Some of them relate to very clinical areas, such 39 40 as finding ways to provide dialysis in a different way.

There are some that relate to digital applications, for example, or at least providing a digital application support on a specific device. In terms of specific examples, if you'd just allow me - I think I have mentioned some, but at the moment they're escaping me in terms of those that have reached commercialisation stage. I can

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1 find that for you a bit later. 2 3 That's okay. Does the OHMR monitor to see whether Q. 4 they do have the anticipated benefits for patients or 5 commercial success? 6 There are various - again, there are multiple Α. 7 modalities we can do to monitor that, depending on the 8 specific device or specific grant programs that OHMR 9 supports. There are - in some of those programs, we have 10 evaluation programs, independent evaluations, that need to be provided, and we do them at regular intervals to make 11 12 sure that we provide an input back into the system and we 13 provide the right adjustment to increase effectiveness. 14 So, for example --15 16 THE COMMISSIONER: Q. So something that doesn't work 17 very well for patients is unlikely to have much prospects 18 for commercial success; right? 19 That is correct. If something doesn't generate the Α. 20 outcomes for patients, it's very unlikely that people will 21 want to purchase those medical devices, and in a similar 22 fashion for other grants that we have, if a research study doesn't demonstrate an impact, then it's not something we 23 24 would promote for implementation at scale afterwards. 25 26 So there are things that relate to every single 27 project's evaluation, as well as an evaluation of the 28 entire programs that we put in place, and I was about to 29 say that the translation research grant programs, for example, was evaluated after its second year and that 30 31 allowed us to make adjustment to the program to ensure that 32 the projects we are supporting, you know, we assess them 33 with the right criteria to ensure that they're going to be 34 successful. 35 36 DR WATERHOUSE: Q. In paragraph 14d there, there is 37 a reference to the Translational Research Grants Scheme, and that is for projects that have the potential to benefit 38 39 patients quickly. Can you give us some examples of 40 successes in terms of those TRGS grants? 41 So there's been many programs. We're at our Α. Yes. 42 eighth round of translational research grant programs now. 43 One example is the monitoring of electrocardiograms, so 44 that's to assess the heart, you know, electrical rate. 45 That was developed in Hunter New England. It was part of 46 the translational research grant programs and demonstrated really that we could have a more streamlined access to 47

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quick diagnostics for cardiac care for patients living in 1 2 rural settings, and the program is currently being 3 implemented across the entire Hunter New England region and 4 we're monitoring it on an ongoing basis to see the 5 potential for other areas as well. So it's a good example of a program that went to the translational research 6 7 grants, that demonstrated, you know, a really good impact 8 on the system. 9 10 Q. Are there programs that have been - or projects that been funded by these grants that have been rolled out 11 12 across the state? 13 Α. Yes. For example, the naloxone program is one that 14 went through the translational research grant to evaluate 15 the impact of accessing that drug at home on the health of 16 patients, and following very positive pilots funded through 17 the translational research grant program, it has been 18 rolled out across the entire state and is now used across 19 many drug and alcohol centres as a way to treat patients in 20 a standard way. 21 22 Now, the TRGS funds, as I understand it - that Q. \$5 million is entirely money from the state; is that 23 24 correct? That's correct. 25 Α. 26 27 And when you were speaking previously about the types Q. 28 of grants that the medical research institutes could apply 29 for, were they only state grants or are there other sources of those? 30 31 No, I was talking about other sources of funding such Α. 32 as the National Health and Medical Research Council, but 33 also the MRFF, which is another Commonwealth-led program, 34 and of course, there are also funding that they receive 35 through philanthropy or specific funding sources that may 36 be provided by clinical patient programs, you know. There's a few sources of funding, although the main sources 37 of funding for those medical research institutes are the 38 NHMRC and the MRFF in volume. 39 40 So of that 104.7 million budget for OHMR, is that 41 Q. entirely state funding? 42 43 Α. That's entirely state funding. 44 45 Q. And just finishing on the TRGS, have there been 46 learnings from projects that were funded but were deemed not to be successful? 47

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1 Α. Well, yes. There's been various learning as part. 2 TRGS program in general. What we can say from our 3 evaluation is that 40 per cent of programs that went 4 through - projects that went through the program have 5 demonstrated successes and have been implemented at the 6 state level. 30 per cent usually demonstrate a potential 7 effectiveness but still need a bit of work to really 8 understand or to help us assess if we need to roll those 9 programs across the entire state. And there is 30 per cent 10 of projects that didn't demonstrate enough effectiveness. 11 12 And that's the goal of the program, you know, we 13 wouldn't expect 100 per cent of projects to demonstrate 14 that they would be effective. The goal of the program is to actually trial interesting ideas coming out of the 15 16 system and really assess if they work before we invest further in implementing them statewide. 17 18 19 There are some learnings that came out of the 20 evaluation as well with regards to the fact for those 21 projects to have a very strong endorsement locally from

22 their chief executives that are promoting them in their 23 districts. They need to have a very clear measurement 24 They need to be mobilising clinicians locally so approach. that they get implemented, and all of those are the types 25 26 of learning that we have made through the years and now we 27 help projects before they arrive to reflect on those 28 different aspects and they're part of the things that we 29 assess with the peer review committees to decide which ones will receive funding going forward. 30 So the evaluation we did of the program did enable us to reflect on some 31 32 learnings and then integrate them into the later rounds of 33 the program.

We might just move down to paragraph 14e, at the top 35 Q. 36 of the page there. So you refer there to 15 million, this year, at least, being spent on cardiovascular research 37 Can you give us a bit more detail of what that 38 capacity. 39 covers? 40 Α. Yes. So that fund is a fund that we have for 41 10 years, we're about midway through it. The goal was to lift our competitiveness nationally and internationally in 42 43 research grants in cardiovascular research. What it covers

are various types of grants, first, early and mid-career
 grants, really helping young researchers to better
 establish their career, have a stronger lab platform to
 then be competitive and receive funding from national

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It includes funds that we use to attract emerging researchers internationally that we feel would provide something back to New South Wales, which would be a good new asset in cardiovascular research. And then it also provides funding for specific projects.

9 I want to, for example, mention the fact that we will 10 have a targeted call for proposals about cardiovascular 11 health for Aboriginal people this year, and that's a way 12 for us to at times target the funding in an area where we 13 think we need to lift, we need to increase capability in a 14 more targeted way.

16 And then if we look at paragraph g, omics research and Q. 17 omics technologies, it sounds like a space-age word but can 18 you please explain to the Commissioner and the group what 19 this actually means and what it involves? 20 "Omics" is a term, a very generic term Α. Of course. 21 that is there to describe many different things, and 22 probably the most known area is genomics, which is the 23 science of genes and the science of intervening to modify 24 genetic illnesses to improve the health of patients.

So our omics work doesn't just cover genomics, it 26 27 does, but it covers proteomics, which is about the science 28 of proteins in the body so unfortunately it is a bit, you 29 know, cutting edge and complex, but ultimately, if I am to summarise our work in that space, it is that we're really 30 31 working with our partners to make sure that all of the 32 promises of personalised medicine, which is really medicine 33 that is about the specific genetics of people, the specific 34 genomics of cancers that they may get, et cetera, so that 35 the real personalisation of our treatments can be supported 36 and be embedded into our system. And therefore, it's about that translation of cutting-edge, you know, benchtop 37 research happening in universities and research centres, 38 39 and helping them along the way so that we transform it into 40 clinical applications at the bedside for patients. That's 41 really our omics work.

THE COMMISSIONER: Q. Are they who you're referring to
when you say "our partners"?
A. The partners in that omics space would be
universities.

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Q. And the research institutes?

A. Research institutes, but at times it could be
industry, if specific industries are developing
technologies that we feel are at the stage where we can
start to support their implementation in clinical settings.

7 DR WATERHOUSE: Can we scroll, please, to Q. 8 Now, it refers there to OHMR's annual paragraph 15. 9 priorities and work plan deliverables being negotiated and 10 recommended by the branch's executive team. Does this involve any consultation with the local health districts 11 12 about the needs of their populations and their challenges 13 and what they're doing to address them on the ground? 14 And there are various ways that we achieve this. Α. Yes. First, there are regular structures that enable us to have 15 16 close connections with the local districts' chief 17 executives, such as the senior executive forum, where the 18 Office for Health and Medical Research and the ACI are 19 presenting their planned work, receive feedback about their 20 adjustment with regards to local needs or feedback about 21 things that we may need to adjust to better fit the 22 clinical setting. And that's, of course, really also 23 enabling each of the local districts to get a better 24 understanding and an early view about the type of work that the Office for Health and Medical Research and ACI are 25 26 progressing. 27

28 We also have two communities of practice that enable 29 us to better connect locally as well, both in terms of 30 research as well as innovation. So we've got a community 31 of practice which is a group of people having to achieve 32 similar kind of work, and it's called the community of 33 practice of directors of research, and they are the 34 directors of research that are active at the local district 35 level, working with their research teams at identifying 36 specific opportunities, specific needs. And they now meet 37 on a monthly basis to reflect about their specific needs but also the things we need to do at the state level to 38 support their work, which, of course, is a very important 39 40 role of the Office for Health and Medical Research. 41

And we also have a community of practice of directors of innovation. They don't always have that name, but we know who is leading, you know, innovation and translation work in the district, and they also meet on a monthly basis to reflect on our implementation programs, you know, the things that we're bringing at scale at the moment.

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1 2 There's also, of course, at times consultation with 3 the districts and specific hospitals or research centres 4 that we do as part of specific programs. So, for example, 5 when we do an evaluation or when we want to reorient specific programs, we would very often organise 6 a consultation where people will be able to reflect on the 7 8 previous program and identify potential gaps that we need 9 to address, and at times, it does include public 10 consultations as well. 11 12 Q. But all of this is being brought into the annual 13 priorities for the OHMR? 14 Not for each of the programs, because some programs Α. have plans in place for multiple years. So we don't always 15 16 review things in the middle of those programs. But I would 17 say that every year there's at least one program that 18 enables us to go back and connect with the districts, connect with clinicians and researchers to inform our work. 19 20 21 Q. And in terms of these sort of - the priorities and 22 work plan deliverables, you're confident that the system works in such a way that there are not sort of gaps or 23 24 duplication at a district level in terms of what they're 25 doing and what the OHMR is focused on? 26 We're really doing our best to ensure that we've got Α. the communication platforms in place so that there's a good 27 28 balance between local districts, progressing the work they 29 need to progress in an efficient way without undue bureaucracies or steps, yet at the same time, us having the 30 31 right visibility so that we can tailor our work so that we 32 support their work, avoid duplications, you know, but at 33 times, of course, when a specific clinical area is an area where there's a lot of innovation emerging, sometimes we do 34 see that, you know, districts may do work that is not quite 35 36 connected. The establishment of those coordination 37 platforms is really the way for us to pick that up as quickly as possible and then work with them so that we 38 39 align the work. 40 41 But it's about balancing, you know, centralised coordination versus local emergence, because we don't want 42 43 to lose the initiative that comes out of clinical settings 44 in terms of what they do in research and innovation. So 45 we're striving to find the right balance. 46 47 Q. I would like to scroll down to paragraph 29, please.

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Now, you refer in the second-last line there to the
"NSW Health and Medical Research Strategic Review 2012".
If we can just bring that up on the screen, it is B.023.51,
and that is [MOH.0001.0358.0001]. So that's the document
that you were referring to there?
A. Yes.

8 Q. If we can just move down to page 13 of that document, 9 please. So this is where a number of recommendations are 10 Now, this review that you said remains a strategic made. document for research in New South Wales, is 12 years old. 11 12 Are you confident that those recommendations that were 13 identified 12 years ago have now been implemented and 14 embedded in the New South Wales health system? I would say that most of the recommendations have seen 15 Α. 16 significant improvement, many of them having been achieved. 17 Some of them will need to be reviewed because they may not 18 fit anymore with the new environment that we're in.

20 This strategy, as you've said, dates from 2012. Ιt 21 was due to be renewed because it was a 10-year strategy, 22 and then the pandemic really took us to a different 23 direction, we had to reorient a lot of our work to support 24 the COVID research program during the pandemic, and now we 25 have progressed an endorsement brief within the ministry 26 and we're currently in consultation to review that 27 strategy, with the aim over the next few months to have 28 a replacement of that strategy.

I'm particularly interested in the ones that rely on 30 Q. 31 the districts actually making changes, and, of course, 32 they've also been fairly overwhelmed with COVID. So if you 33 look at 1.4 on the page there, the obligation to provide 34 training for practitioner researchers and facilitate access to research support - is that something that has been 35 36 embedded effectively at a local district level? 37 Α. I would say that in most districts there has been significant improvement in them mobilising clinicians, 38 39 providing support through a director of research, through, 40 at times also, specific expertise that helps to, you know, 41 develop research careers for our clinical researchers. And, of course, there are various programs at the central 42 level from OHMR that are also aimed at that. 43

The early mid career grant programs is an example of that, really helping clinicians that are budding as researchers to be supported, to have more time dedicated

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for research, being able to attract grant funding and then 1 2 establish their career as research clinicians. 3 4 This has also been part of the work that we've done 5 around research governance, making sure that we streamline the process, reduce administrative barriers so that 6 7 clinical researchers can actually be more effective at 8 concentrating themselves around the research and less 9 around the administrative tasks that relate to research as 10 well. 11 And further down that same page, 2.3 refers to "Reduce 12 Q. barriers to clinical trials by faster start-up times and 13 14 greater opportunities to recruit trial participants and engage clinical staff". How is that working in the 15 16 districts? 17 Α. Yeah, we've got two - we've got two programs that we 18 have developed to help districts with regards to these 19 capabilities, and the first one is the research ethics and 20 governance system, which really enables us to better track 21 the administrative tasks, reflect on indicators of 22 performance with regards to ethics reviews, local site 23 approvals, making sure that we govern research in an 24 appropriate way but also in a timely way and reduce the time that it takes from money being available for research 25 26 until it starts to hit the ground and recruit patients and 27 clinicians. 28 29 So that's the first program, and we've got very advantageous indicators compared to other states in that 30 31 space - you know, more quick assessment to ensure that 32 clinical trials, for example, can start quickly in 33 New South Wales, and this is recognised internationally. 34 The other one is the clinical trial management system, 35 36 which is a system that helps local districts to manage 37 clinical trials when pharmaceutical companies or other devices companies, for example, want to conduct trials, to 38 make sure that we've got, again, a streamlined approach and 39 40 that we can have a quick introduction of those trials so 41 that our patients can start to benefit from them quickly. 42 43 This has really helped, I think, to structure through 44 those technological platforms but also through the policies 45 that we've established for both of those in making sure 46 that the entire system sees what are the goals and has a more strategic alignment to really increase our 47

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1 competitiveness in clinical trials and really, again, 2 making sure that those trials end up benefiting our 3 patients, and we all know that system that integrates 4 clinical trials in a more systematic way is a system that is safer and a system that really promotes better outcomes, 5 and there's a lot of literature in that space. 6 7 8 So that's why we've invested heavily into those two 9 systems to really support local districts to be more active 10 in research. 11 12 Q. Could we bring your statement back up on the screen, please, and if we could go just to paragraph 31 at the 13 bottom of the page there. So it says: 14 15 16 The CIR Division actively engages with other pillars and branches within NSW 17 18 Health, researchers, academic institutions, 19 commercial entities, clinicians and 20 consumers ... 21 22 Now, there's no mention there of engaging with those health service managers in the districts or the specialty health 23 24 networks that are actually responsible for managing health 25 services. Isn't this something of a disconnect? 26 I think it's an omission, because it is in our Α. 27 strategy documents, clearly, that managers are one of the 28 stakeholders that we work with. All of our models of care 29 have components that relate to the work of, you know, nurse managers or medical directors, and therefore, they're 30 31 a group that we engage with through our dissemination 32 approaches and also they're part of the group that we 33 consult with when we engage with them. 34 Managers are also part of our Health System Advisory 35 36 Council. so it's clinicians of different clinical backgrounds but also managers that give us the high-level 37 advice that we need to guide our programs towards impact. 38 39 40 So I would say that managers here is really an 41 omission. It is really clearly demonstrated in other documents, they're absolutely one of the target 42 stakeholders for us because they're the ones that locally 43 44 will very often translate our models of care into 45 operational decisions and operational models. 46 THE COMMISSIONER: Just to be clear about "omission", 47 Q.

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1 you mean paragraph 31 of your statement should have 2 mentioned the LHDs and --Yes, I think it would have been correct to mention 3 Α. 4 them as part of the stakeholders mentioned there. 5 6 DR WATERHOUSE: Q. And they're engaged at an early stage 7 in the planning of new sort of research and so on, not just 8 downstream, once things are expected to be implemented? 9 Α. Yes, and that happens because many managers are 10 involved in our clinical networks as well. Our clinical networks, as I've said, have got, you know, executive 11 12 committees that have clinicians, consumers, people that are 13 having administrative roles in the districts, and 14 therefore, they're part of the identification of opportunities or gaps, and therefore, at the specific 15 16 clinical level, are involved in many of our - in most of 17 our work through the clinical networks, but then the group 18 of managers in the local districts are also consulted once 19 we have drafted new models of care or new policies. So 20 it's both through these mechanics that we're trying to link 21 with local managers as well. 22 And you mentioned nurse managers. What other types of 23 Q. 24 managers might be involved in some of that decision-making? 25 Α. Well, it depends on the clinical program and it 26 depends on the type of model of care that we would be 27 developing. For example, if we've got a model of care -28 for our models of care around virtual care, for example, we 29 do engage with clinical information officers, we engage with people that are managing IT systems locally, because 30 31 our models of care need to be supported locally by the 32 right infrastructure. 33 34 If we're talking about models in surgery, for example, 35 we very often have people in managerial roles with regards 36 to how the surgical wards, the operating theatres, are managed, so that we better understand the operational 37 issues that may have to influence the clinical guidance 38 that we're providing. So depending on the type of clinical 39 40 area and the type of model of care that we promote, we 41 would have different types of clinicians, different types of managers involved in the design and in the review of 42 43 those programs. 44 45 Q. In paragraph 32, if we just scroll down to that, you 46 mention there that research is pivotal in the work of the division. Can you give an example of how the division's 47

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involvement in research has led to system improvements? 1 2 Α. Okay, so the first thing I'll say is that, you know, 3 the Agency for Clinical Innovation is a partner in many of 4 the translational research grants for the part that relates 5 to supporting implementation, supporting the local 6 engagement and the redesign, and the ACI is participating in many research programs that go through the TRGS program 7 8 but also are going through, you know, NHMRC and MRFF 9 funding as well.

11 So our clinical groups are involved proactively and 12 increasingly proactively with different research groups to 13 support their work and make sure that that work, that 14 research work, is produced with input from us so that it 15 translates the needs of the system and the opportunities 16 for improvement.

18 We've done research in many different programs where 19 we feel that it has made a significant difference. That 20 includes, for example, the support that we gave for work 21 where we wanted to change the way emergency departments are 22 managing back pain. We collaborated with universities to assess how to avoid prescription of opioids in emergency 23 24 departments, by mobilising different types of resourcing, different types of professionals around it. 25

That study, for example, demonstrated a really strong reduction in the use of opioids and in the use of imaging, for example, which we knew was very often not benefiting patients, not really making a difference for patients.

So that's an example where we worked with the clinical team to really ensure that their research question, you know, was driving the research, but informed by very strong clinical and health systems research expertise to make sure that it translated into impact afterwards.

And just taking that example, given that back pain is 38 Q. something that presents in general practice a lot and 39 40 people might be referred in to the hospital, have you been 41 able to disseminate those learnings into the primary health networks and others to try and actually change the approach 42 43 in general practice to managing back pain? 44 There are different routes we're taking to try to Α. 45 influence GPs and the primary care sector in general, which 46 is not, you know, a sector under the leadership of

47 NSW Health directly. It involves a structure that we have

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1 in place at ACI that we call the general practice advisory 2 group, and that's a group of primary care providers that 3 give us advice about where should we be talking about that 4 model of care, should we organise webinars with GPs, should 5 would go to specific conferences where we talk about those models? And in the case of back pain, they have given us 6 7 that advice and those studies were heavily, you know, 8 presented across the system. 9

10 But we also have a joint committee with the primary health networks where we discuss these kinds of results and 11 projects. Every time we feel that there's a structure 12 13 within NSW Health that interfaces with primary care and 14 where the result of, you know, the research or an innovative program may require an adjustment on both 15 16 sides - you know, emergency department and primary care 17 practices, for example.

19 So in terms of back pain, I know that the research 20 team has been heavily involved in disseminating the work. 21 I wouldn't be able to provide any numbers with regards to 22 the change in primary care. That's probably a study that 23 should be done to assess, you know, the impact. But with 24 regards to emergency departments, it's been very, very 25 clear, the positive outcomes.

DR WATERHOUSE: Commissioner, I'm going to be moving on to the Agency for Clinical Innovation now. Did you want me to do that or did you want me to take a break at this point?

31 THE COMMISSIONER: No, I won't take a break yet.

33 DR WATERHOUSE: Q. If we now turn, as I said, to the 34 ACI, and we might move to paragraph 23a of the statement, 35 so going backwards, it says there:

37 Engagement and collaboration with consumer,
38 clinicians, agencies, industry and
39 academics, to identify, design and test
40 innovations in clinical practice.

Who are the agencies that you're referring to?
A. Oh, it would be other pillars or organisations in
different areas that would be an important partner. And
those agencies could be national-level agencies. You know,
in virtual care we do engage with them. If we're talking
about models of care, we do engage with the national

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commission, for example, you know, so there's a varied 1 2 group of agencies that we need to interact with to both 3 ensure that we do work that's complementary to the work 4 that they do but also ensure that we can benefit from their 5 support when the time comes to implement across the system. So it does include a varied group of groups or 6 7 organisations across both Commonwealth and state. 8 9 Q. The paragraph above, 22, refers to the determination 10 of functions from 21 August last year. I might just get that up on the screen. So that is B.023.048, 11 [MOH.0001.0345.0001], and if we could just make that a 12 13 little bigger. Thank you. 14 15 So it says in the third paragraph: 16 17 The Agency will achieve this role by ... 18 19 and it is very similar wording to what I just read out from 20 the statement --21 22 connecting consumer, clinicians, system 23 leaders, industry and academics to 24 identify, design, test and implement 25 innovations ... 26 So the word "system leaders" is what is included in the 27 28 determination? 29 Α. Mmm. 30 31 But that has been changed to "agencies" in your Q. 32 statement, and I'm just interested in the reason for that 33 change from "system leaders" to "agencies"? 34 There is no specific reason. I think it's an Α. It probably would have been better to use the 35 oversight. 36 same terminology, because we're really thinking about all 37 of the agencies or individuals that have a role to play in how the system is designed and transformed eventually. 38 39 40 So I would say "system leaders" is probably a broader 41 term, more aligned with the variety of stakeholders that we're engaging with for our work and, therefore, the 42 43 determination of function is the most appropriate and 44 correct wording. 45 46 THE COMMISSIONER: Q. So the "agencies" referred to in 23a are the health system leaders that are referred to in 47

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1 the determination; is that what you mean? 2 They are included in the system leaders, just like Α. 3 they're included also in the public health organisations 4 when we go in more detail into the functions of the 5 organisation afterwards. 6 7 DR WATERHOUSE: So do "system leaders" include the Q. 8 local health districts? Because again, it seems that there 9 is a bit of a disconnect at that early stage of identifying 10 innovations, that the LHDs are not necessarily part of that 11 broad range of people with whom you consult. The 12 clinicians, yes, but not at that decision-making management 13 level? 14 Α. There is absolutely no doubt that the local districts 15 are a key stakeholder and a partner in all of our work. We 16 do engage on a monthly basis with the chief executives of 17 the districts, through the senior executive forum. We 18 often present our work in key groups that have a role to 19 play either in safety or clinical governance, as a way to engage with the district as well, and as I said, we've got, 20 21 as embedded into our clinical networks, many of those local 22 So it's really a diverse approach that we system leaders. have to ensure that we hear, listen and respond to the 23 24 needs of the local health districts as part of our work. 25 It is not just clinicians that are consulted through that 26 process. 27 28 THE COMMISSIONER: I suppose, when it has functions Q. in the determination - I mean, "agencies" doesn't seem what 29 an LHD is, but they might be system leaders, I think, but 30 31 when you look at the functions, it has: 32 33 The Agency will perform the following 34 functions: a) work with LHDs ... 35 36 37 That's what you are really referring to? Absolutely. 38 Α. 39 40 DR WATERHOUSE: Q. So even though consulting at the 41 senior executive forum level will be about telling them the work you're doing, you're comfortable that there are 42 43 mechanisms to find out what they are doing to identify 44 those innovations that are happening out in the districts 45 at an early stage? 46 Yes, and there are some structures that we've put in Α. place to do that. The first thing I will say is that 47

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1 there's not a lot of programs that we start as a pilot 2 where a local district is not the main partner, and that 3 really means that, for that specific pilot, which is really 4 a small project that we progress before we implement 5 something statewide, we'll have a governance group involving either the chief executive or the director of 6 7 clinical governance, or it could be the head of surgery, 8 for example, at the district level, and therefore we 9 co-design it, really, at the district level. And then we 10 use those more statewide platforms when the time comes to say, "Well, how do we translate that successful pilot into 11 something that we will design for the state?" 12 13

14 If I may just use the example of Telestroke, because I think it is a good example that demonstrates the way we 15 16 So Telestroke is a program that started probably work. 17 a bit more than eight years ago, and it started because we 18 were realising that patients were not receiving 19 thrombolysis, which is really the clot-busting technologies 20 and treatment, at a rate that we would require and expect 21 in many clinical settings.

Then we started to work with Hunter New England and Mid North Coast, two local health districts, to pilot how could we support a remote or regional area with the specialised expertise of a regional centre to provide clinical guidance remotely through virtual care means, and what would be required from a technological perspective to be able to do that.

31 What we did is that we trialled it, co-designed the 32 process with the local clinicians and the managers. There 33 was a local health district sponsor in both Hunter New 34 England and Mid North Coast, and then that enabled us afterwards to design what it would look like if we were to 35 36 do that across all of the local districts in the state. and 37 that was the second phase of the project where we decided that, yes, the benefits were clear. 38

40 So we worked with groups of clinicians and managers 41 from the different districts to design the model of care that we would implement everywhere. And then we had, with 42 43 each of the districts, a go/no-go kind of approach where we would start to look at their capability, work with them to 44 45 enhance their technological platform, make sure that their 46 clinical processes were in place, and then start to implement in collaboration. That enabled us to implement 47

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the program everywhere but also to make small adjustments
when we felt had a the local resourcing or the specific,
you know, geographical challenges meant that we had to roll
the program in a slightly different way.

Because you have mentioned 6 THE COMMISSIONER: Q. Telestroke, why don't you tell us practically how it works. 7 8 So a patient turns up in a rural ED with symptoms 9 consistent with a stroke. You take it from there. 10 Α. Yes. So what we've done is that we've funded cameras and mobile units in regional centres that are not 11 12 specialised for stroke, and what we do when a patient shows up at a rural emergency department is that the emergency 13 14 doctor identifies that, you know, this could be a stroke, connects with the service. 15

17 The service is, you know, led by a hub at Prince of Wales Hospital in Sydney, and the clinician would then be 18 19 able to connect through virtual care, you know, 20 telemonitoring and screens, to be able to first help the 21 emergency doctor to provide the right assessment, provide 22 the right imaging that's required to diagnose a stroke, and when it's confirmed to be a stroke - and that's not always 23 24 the case, so sometimes the patients may have symptoms that 25 look like a stroke but are not a stroke, and our 26 centralised service enables us to provide that advice to the emergency doctor - when it is, you know, confirmed that 27 28 this is a stroke, then the neurologist specialist from the 29 hub will provide advice about the right treatment.

31 Q. A neurologist at the Prince of Wales will --32 Α. Yes, so the doctor at Prince of Wales or another of 33 the big centres part of the service will provide that 34 advice, and then either a thrombolysis will be started on site, because that's a treatment that can be done in those 35 36 rural settings, or the patient will be transferred to one of the endovascular clot retrieval centres located in 37 bigger centres, if we have to physically go and retrieve 38 the clot from the vessel, because that's another, you know, 39 new treatment that we have for stroke now. 40

Therefore, the Telestroke enables us to both increase local capability to provide care locally for rural patients, as well as making sure that our networked approach, you know, between bigger centres and smaller centres, would work in a seamless way and really ensure timely retrieval for patients that need a higher level of

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1 That's what Telestroke, in a nutshell, does. care. 2 3 Thank you and Telestroke is an example of what you are Q. 4 talking about, a collaboration between the ACI and, in 5 these instances, regional LHDs to develop a remote virtual model of care to get better outcomes for people that suffer 6 7 strokes that aren't having strokes in the metropolitan 8 area? 9 Α. Absolutely. And it's also a good example of how we've 10 collaborated across the entire system with eHealth, with 11 the ministry branches. Because when you're at the stage 12 where you take a pilot project to state level, there's 13 a lot of things we need to align. We need to align the 14 technological infrastructure, we need to align the policies, you know, the kind of guidance we give to local 15 16 districts about how they manage transfers, for example. We 17 need to align clinical advice that we give --18 Q. 19 Is Telestroke the whole of the state now? 20 Α. It is across the entire the state in all of the local 21 health districts. It doesn't cover every single hospital 22 in the state, you may understand this is not feasible, but 23 it does now reach out to all of the local districts, making 24 sure that there's a regional centre where ambulances can 25 take those patients and they will receive care, which is 26 supported by the highest level of technology. 27 28 So you don't roll it out in every single small rural Q. 29 hospital, but it's within reach for people if --Exactly, exactly. 30 Α. 31 32 -- they've had a stroke, to get to somewhere near Q. 33 enough? 34 And it does cut the time, the travel time required, to Α. access the highest level of expertise for stroke in the 35 36 state. 37 THE COMMISSIONER: 38 Sure. Thank you. 39 40 DR WATERHOUSE: Q. Just wondering if you can explain how 41 the Telestroke service interacts with NSW Ambulance to determine the appropriate hospital to take a patient to 42 43 based on the symptoms and signs that they're exhibiting? 44 So before a patient arrives to a Telestroke remote Α. 45 centre, it's the usual grid management that will guide 46 ambulance, so they will assess the patient, they will 47 identify where they can take the patient the quickest, with

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1 an available clinician to provide advice. 2 3 Once a patient is in the Telestroke program, after 4 having been managed by the emergency department, then we 5 would connect with ambulance to make sure that we organise the right transportation, if the patients need to be 6 7 retrieved and brought to an endovascular clot retrieval 8 centre in the city. 9 10 So there is a combination of using the ongoing, you know, clinical assessment from ambulance staff and then 11 a coordination of transportation mostly for the retrieval. 12 13 14 DR WATERHOUSE: Commissioner, that might be a good place 15 to stop. 16 17 THE COMMISSIONER: If that's convenient to you, I'll make 18 it convenient to me. Okay. We will have a break, then, 19 until 11.30. 20 21 SHORT ADJOURNMENT 22 23 THE COMMISSIONER: Yes, Dr Waterhouse? 24 25 DR WATERHOUSE: Q. We might go to paragraph 24 there of 26 You note there that the ACI has 200 FTE of the statement. 27 employees currently. What types of roles do they fulfil? 28 So the first type of role that we have are clinical Α. 29 network managers. As I've said, we've got 42 clinical networks and the clinical network managers are the ones 30 31 coordinating the work of each of the networks, making sure 32 that projects are progressing. 33 34 We also have people that are supporting our transformation teams and our people with expertise in 35 36 project management, in redesign and design of healthcare 37 services. We've got also teams that have expertise in science and evidence, and they're the ones that really make 38 39 sure that we do the appropriate review of the international 40 literature, making sure that what we propose is 41 demonstrated to be effective with strong evidence. And then we've got a small administration and communication 42 43 team that supports the organisation. But these are the 44 main kinds of roles - oh, in addition to evaluators and 45 economic modellers that we also have in the organisation. 46 47 Q. Do most of the staff have a clinical background?

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1 Α. It's more than 50 per cent of the staff that have 2 a clinical background at the ACI, and it's varied clinical 3 backgrounds, you know, we have doctors, nurses, allied 4 health professionals, we've got people that are from mental 5 health and psychology as well, from a clinical perspective. 6 7 Do they have additional training in fields such as Q. 8 clinical management, health economics, that sort of thing? 9 Α. Yes, many of them have either gone through our own 10 internal redesign programs, developing their skills, you know, in not just engaging clinicians but also with the 11 12 appropriate method, and many of them have, you know, higher education as well in complementary aspects, either Masters 13 14 of Public Health or in administration. 15 16 In paragraphs 25 and 26 you talk about the clinical Q. 17 directorates, if we start with those, first, in 25. Is 18 this an arrangement that's come into play since the 19 division was established or is this the longstanding way 20 that ACI has been organised? 21 Yeah, the way the ACI is currently structured, Α. it 22 dates five years ago when we did some realignment of the 23 way we were working. So PRISM and CATALYST, the two 24 clinical directorates, have been in place for around five 25 years, and they have streams that have also been in place for, many of them, five years, some of them have been 26 27 slightly adjusted recently. 28 29 Q. Moving down to 26, you talk there about the evidence directorate, STEP - system transformation, enablement and 30 31 patient partnerships - and then I think on the next 32 page there's a reference to IDEA and SCOPE. How do you 33 ensure that those support directorates, if I can refer to 34 them as that, don't overlap with some of the other things going on. For example, the integrated digital enablement 35 36 accelerator, how does that not overlap with the work being 37 done by eHealth? It is complementary. So if I may talk about the 38 Α. integrated digital enablement accelerator, this is a small 39 40 team that we have established for the purpose of 41 redesigning health care so that those health systems can actually use the digital technologies in a way that impacts 42 43 clinical delivery of care. 44 45 So that team is not about developing or maintaining -46 or doing the maintenance around IT systems. That team works in collaboration with eHealth to ensure that we work 47

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with clinical settings and local teams to do the redesign 1 2 of health care that's required for new technology systems 3 to be impactful on clinicians. 4 5 So this is our way to help eHealth to translate those new systems, digital systems, by redesigning health care. 6 7 8 THE COMMISSIONER: Q. What's an example of the digital 9 systems that you're talking about? 10 Yeah, so I'll give the example of the health outcomes Α. and patient experience digital platform. So that platform 11 12 was developed in partnership with eHealth and it's 13 a digital platform that enables patients to access remotely 14 key questionnaires that clinicians want them to answer, so that when they get to the actual visit in front of their 15 16 nurse or their doctor, that information will already have 17 been provided to their clinical team. So they can fill out 18 a form. 19 20 Q. It's a form of survey? 21 Α. It's a form of remote surveying and what it does is 22 that it enables clinicians to then access those results and plan, you know, what is it that they're going to have to 23 24 discuss with the patient when the patient comes to the 25 clinic. In that specific program, our role was to work with the local districts at gradually rolling out the 26 27 system across the state, in new clinical areas gradually. 28 So we had, you know, a system of implementation because you 29 can't implement something like that all across the state all at the same time. So we worked with local teams giving 30 31 them the right training, answering questions that they may 32 have, but also at times helping them to understand how they 33 need to reorganise their outpatient clinic or their 34 inpatient management for clinicians to be able to use that 35 platform in a way that's effective. 36 37 Of course, if they were giving feedback that related to the actual design of the platform, then we would 38 translate that back to eHealth so that they would, you 39 40 know, open the hood and make the adjustments that are 41 required to make those softwares work. 42 43 We do believe that it's a really fundamental role of 44 the Agency for Clinical Innovation, because those digital 45 platforms do not translate automatically into clinical 46 care. We need to take the time, you know, to reassess how care is currently provided, make the adjustments that will 47

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actually make those digital systems really impactful for 1 patients, you know. So I think that's a good example where 2 3 the collaboration has been ongoing for many years. 4 5 THE COMMISSIONER: Thank you. 6 7 DR WATERHOUSE: Q. Do the staff working in IDEA have 8 particular sort of training that they've needed to do to be 9 able to take on that role? 10 It's not training that we give to them but many of Α. them come with backgrounds in clinical settings and also 11 12 having worked in telehealth in the past or having been, you know, working in clinical information teams at the local 13 14 level. So many of them do have experience in how digital is translated into clinical care. 15 16 17 But we're not talking about people that have training in coding software, obviously, that's something that 18 eHealth does. Our work is much more around the 19 20 transformation support, and that's why we call it an 21 enablement accelerator. It's about enabling those clinical 22 settings to use those platforms in the right way. 23 24 Q. In paragraph 27 you refer to the ACI establishing an internal consultancy function just a few months ago. 25 Can 26 you tell us a bit more about what that involves? 27 Α. So that involves really having identified what are the 28 areas where we feel we've got internal expertise that could 29 benefit local districts or central agencies in the system and offering that expertise as an alternative when 30 31 districts are contemplating either using an external 32 consultant to support that work or doing the work 33 internally. And what we're doing really is to make clear 34 that we can support on evidence reviews, we can support on 35 redesign, we can support on implementation approaches, we 36 can do data and analytics internally to do that. 37 38 What it involves really is assessing when a district 39 or a ministry branch needs support, external support, we 40 work with the chief procurement officer or the specific 41 division within the ministry, assess the request, and if we 42 feel that we've got both capability and capacity to answer, then we work in partnership with the local districts or the 43 44 branch to deliver the work instead of going external. 45 46 So that's one of the contributions that we wanted to 47 make to make sure that we, you know, develop internal

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1 2 3	capabilities that will complement or fill some gaps that are currently present in the system.
3 4	Q. Is that within the 200 FTE that ACI has currently?
5	A. It is. Most of the time we can fit some of those
6	requests as part of our work. When we can't and we need to
/	with the legal districts on the branch as that we get the
0	with the local districts of the branch so that we get the
9	so it's a good mixed approach that we're trying to de But
10	we're not - we've not established a specific team for that:
12	it's much more that it's a specific process
12	
14	0 And so will an LHD only pay for the additional FTF if
15	you have to bring someone else in - is that right - or do
16	they pay for the service generally?
17	A. They would pay if we need additional capacity to be
18	brought in. If we can do it internally, we offer it as
19	part of our usual service.
20	
21	Q. I would like to go now to paragraph 44, where you talk
22	about models of care.
23	A. Yes.
24	
25	Q. You have defined a model of care as - well, it says:
26	[it] we found to the way beelth as we is a
27	[it] reters to the way health services
20	best practice care and services for
29	a person population group or patient
31	cohort
32	
33	Models of care aren't necessarily best practice. though.
34	are they? I mean, any model of care, in terms of service
35	delivery, may or may not be evidence based, best practice?
36	A. Well, there is different types of evidence that we use
37	at ACI to develop our models of care. There is, of course,
38	academic or research based evidence that we systematically
39	review, but we also want to make sure that the evidence
40	that comes from the experience of groups of clinicians or
41	consumers is also considered as evidence. That's why we've
40	established the evidence team, so that we will adopt as
42	
42	rigorous methods to generate synthesis of the academic
42 43 44	rigorous methods to generate synthesis of the academic research literature as when we're consulting with
42 43 44 45	rigorous methods to generate synthesis of the academic research literature as when we're consulting with clinicians and consumers. We want to go beyond opinions.
42 43 44 45 46 47	rigorous methods to generate synthesis of the academic research literature as when we're consulting with clinicians and consumers. We want to go beyond opinions. It's really about making sure that the consultation process is generating as strong evidence as with the research

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1 literature. Because the reality is that research is not 2 available for everything that you need to design a good 3 model of care, and sometimes you need to rely on the 4 expertise of hundreds of clinicians and consumers to 5 generate the additional evidence that is required. And we do adopt rigorous methods that enable us, at times, to say, 6 7 even though there's not a study on this, the collective 8 knowledge and wisdom of clinicians is strong enough that we 9 need to put it in a model of care. 10 So in that sense, it's always about evidence based 11 12 models or evidence based practice, but not just backed by 13 the academic literature. 14 But just to be clear, what you're talking about there 15 Q. 16 are the new models of care that you're developing as being 17 best practice. There are thousands of models of care that 18 have existed for a long time that ACI has not been involved 19 with, those are not necessarily best practice; is that 20 correct? 21 Α. You are correct that ACI doesn't cover all of the 22 models of care currently implemented in NSW Health. We do 23 cover a really broad range and provide that advice back to 24 local health districts, but very often, they have their own models of care and at times their models of care pre-date 25 the ones that we're updating. 26 27 28 In the next paragraph, the last line, you say that Q. 29 only a small subset of models of care are mandated by a specific policy directive. Can you give us some 30 31 examples? 32 So what we mean by that is that, you know, a policy Α. 33 directive is a formal document endorsed by the ministry where they say local districts or clinical settings must do 34 X and Y, must do certain types of things. 35 So, you know, 36 there are policies in many different areas and there is 37 a policy, for example, around stroke care, and the model of care for Telestroke, for example, aligns with that one. 38 39 40 But clinical practice is much broader than that, and 41 there are areas where we don't need to mandate a specific way to care for patients because clinicians have, of 42 43 course, professional autonomy to make the best decisions 44 But that doesn't mean we don't help them for patients. 45 with a model of care that would help them to standardise, 46 make sure that we reduce clinical variation - and by that I mean that care would vary but not because of what people 47

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1 need but more based on preferences or other factors - so we 2 want to reduce clinical variation by giving clinicians 3 a guide, you know, a model of care, so that increasingly, 4 patients can be ensured to receive care in a way that's as 5 standardised as needs to be, even though we don't need to mandate a specific aspect of that care to be provided. 6 7 Clinical care is much broader than the amount of mandated 8 policies in the system. 9 10 Q. Of course. I might have missed it, but do you have a specific example of one that has been mandated, just so 11 12 we can get a feel for that? 13 Α. I mean, there's a lot of different examples. I mean, 14 we've got, you know, policies that mandate certain things that we do around maternity, for example, you know, who do 15 16 you provide antenatal care, appropriate screening? That's 17 a good example where we've got both policies, because we want every mother to have the right antenatal and postnatal 18 19 care, and then we've got models of care that provide more 20 details to clinicians about how to do it in practice. 21 22 Thank you. Let's move down to paragraph 50. Q. You've 23 given an example there of a new model of care, being the 24 clinical genomics model of care that came in in 2021. It 25 sort of explains there what it's about and how it came 26 Has this been evaluated to confirm that it did about. 27 achieve what it actually was intended to achieve? 28 Not to my knowledge. I don't think this one has been Α. 29 evaluated yet, because it's a fairly recent model of care, and also, we are gradually integrating this model of care 30 31 into new services, as new therapies are coming along. So 32 in this case, it's really a model of care that we've 33 developed ahead of time, because we knew that there would 34 be new therapies coming, and we wanted to give guidance 35 about how to set up those clinical settings, how to 36 reorganise care so that we can provide, you know, the right access to the diagnostics and the right advice to 37 clinicians back. So to my knowledge, the evaluation has 38 not been done for that model of care. 39 40 What would normally be the sort of time frame for an 41 Q. evaluation for something implemented in 2021? 42 43 I would say that, you know, we want to review models Α. 44 of care every five years to make sure that we keep them 45 current. Sometimes what we do is a midway review where we 46 assess the content of the model of care and compare it with the changes in evidence, and in the case of genetics and 47

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1 genomics, that's something that we're doing on an ongoing 2 basis. 3 4 At times, what would happen is that, after three years 5 of implementation, we would start an evaluation, asking clinicians to reflect on the use of the model, identifying 6 7 any gaps, and that's something that, for example, our 8 genetic network, you know genomic network would meet to 9 provide that advice back and make sure that at five years, 10 when we reviewed the model, it's informed by that 11 evaluation. 12 13 Some models of care are associated with more - you 14 know, higher investments, and we do follow guidance from 15 treasury around projects where a significant investment was 16 made, and in that case, it would have to be done midway 17 through the program, as well as when, after three or four 18 years, the program is now implemented. That's when we 19 would do the evaluation and that's for projects that sit 20 within a certain range of investments. So we've got both 21 approaches, depending on the nature of the model of care 22 and in which type of program that it sits. 23 24 Q. So appreciating that it hasn't been formally evaluated 25 as yet, and you wouldn't necessarily know about whether 26 there have been improved patient outcomes, is there 27 a mechanism by which ACI will have been receiving feedback 28 about, say, increases in equity of access and whether there 29 has been a decrease in variation, some of those earlier measurables? 30 31 So there are two - there would be two ways for Α. Yeah. 32 us to hear about early impacts as well as gaps that we 33 would identify, needing to be corrected. First, it's the 34 network that we have in place where leaders from the 35 profession, you know, participate in our activities, 36 reflect on the use of the model, reflect on the current 37 service delivery in the system and help us to identify any gaps or benefits from the system. 38 39 40 But we also, in this case, have a steering committee, 41 a statewide steering committee, where local districts are represented, where the network is represented and also our 42 43 new technology assessment unit, and that's where we also 44 reflect on progress in terms of implementation and impact. 45 So we've got a statewide structure as well as the network 46 that enables us to lift and capture any emerging issues. 47

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1 DR WATERHOUSE: We might move to paragraph 51. 2 THE COMMISSIONER: 3 Just before we do, on the topic of Q. 4 models of care, I'm sorry to go back to where it was, but 5 in paragraph 26, when Dr Waterhouse was asking you questions about those innovation programs, evidence seems 6 to be a directorate. STEP, IDEA and SCOPE are programs, 7 8 are they? 9 Α. Evidence is a systematic input into the work of the 10 clinical directorates and in the work of STEP, just to make 11 sure that we always capture the latest evidence. We very 12 often put in place what we call "living evidence tables", 13 and that means that we - our teams, you know, either on 14 a weekly or a monthly basis, scan the literature and put in those living evidence tables the most up-to-date 15 16 information, and we do that when we are working on a model 17 of care that is in an area where things are evolving very 18 quickly. 19 20 For other models of care where it's not such 21 a vibrant, you know, ecosystem where things are changing 22 fast, we would do an evidence review ahead of reviewing the model of care, and for some of them that could be after 23 24 five years of implementation. So it's variable but we are now systematically employing the evidence team as a way to 25 26 support that review. 27 28 What I wanted to ask you about is in c Q. Thank you. 29 you're talking about integrated the digital enablement accelerator, and you've mentioned virtual care teams. 30 Can 31 you just explain what the virtual care teams are and what 32 they do in New South Wales? 33 Yes. So every district has got teams that support Α. 34 virtual modalities to deliver care. They're not always 35 located in the same place. Sometimes they are with the IT 36 systems, at other times they're in more clinical programs. But they do have people that are in charge of supporting 37 the transformation towards virtual care, telemedicine, 38 And our IDEA team works with those teams on an 39 et cetera. 40 ongoing basis to both help to support the implementation of 41 programs that we're currently rolling out --42 43 Q. Telestroke is an example of virtual care? 44 Telestroke is an example. Α. myVirtualCare, as an 45 outpatient, you know, telehealth platform is another 46 example. We're working with them on clinical registries 47 that we translate into digital modalities. You know, we

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really have a relay locally, in the districts, with the virtual care teams, you know, to help us implement what we're implementing statewide, and in reverse, for them to be helped by us when they need either a policy to be changed or a tool to be, you know, assessed, so that they can also continue to conduct their transformation locally from a virtual care perspective.

9 Q. Totally out of curiosity - and this is probably 10 something that will get followed up later - I was recently listening to a medical podcast, which is what I do in my 11 12 spare time now, and it was a doctor, a physician from the Boston Children's Hospital, who was talking about how 13 14 they'd put in a hospital-specific 5G network because the wi-fi wasn't good enough, which we may have to do in some 15 16 of our hospitals regarding alarms. But leaving that aside, 17 the virtual care model of care that she was describing was 18 one where children, who are cancer patients, are actually 19 getting their chemo infusions at home, and it's linked to 20 the hospital, and the physician at the hospital can see 21 that the chemo infusion is being done.

23 Presumably the parents and maybe even the child are 24 given instructions, because the physician was talking about how computer screen literate the kids are anyway. 25 And then 26 the physician gets the message that the chemo infusion has 27 occurred and all of the data at the home, of whatever kit 28 they've got there, then goes straight into the hospital's electronic patient record for that patient, and so the 29 physicians can see all the health data for the child, 30 31 what's happened after the infusion and can call the parents 32 without the parents having to come into the hospital and 33 say, "This is what's happened. This is how it's going", 34 et cetera, et cetera, which seems like a pretty great model of care for keeping kids that are unwell but can be treated 35 36 at home if you've got the right model of care. Is that 37 something that is being explored in New South Wales as an 38 example, in any areas?

A. This kind of model of care, yes. I will not give an
example in cancer but instead give an example - you know,
there are examples that we're progressing in terms of
chronic disease management, you know, people that have
chronic heart failure, people that have also chronic
respiratory diseases.

45

22

46 Q. Explain how it works for them, then if you've got -47 which diseases did you say?

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1 Α. Chronic respiratory and chronic heart disease. And 2 we're piloting using remote monitoring techniques so that 3 clinical teams would receive, you know, biological 4 parameters that are currently monitored. It could be blood 5 glucose. 6 7 Q. So how does that work and where is it being piloted? 8 Α. It could be blood glucose, it could be, you know, 9 heart rate, respiratory rate. It's a pilot that is 10 starting and I don't have on top of my mind the specific districts where we're doing it, but we're not at the stage 11 12 of statewide implementation. We're really testing the technology and testing how would it work for these kinds of 13 14 patients. 15 16 I'll give another example of wound care --17 18 How would that model of care - say someone with the Q. 19 respiratory illness you're talking about, what would 20 happen? 21 Α. Well, what would happen is that if we see many signs 22 of deterioration of their function, for example --23 24 Q. So it might give oxygen levels or something like that? 25 Α. It could be that. Then a team from the hospital would 26 have to call and check on things. If the rates would be at dangerous level, it could trigger an ambulance to go. You 27 28 know, there's a lot of --29 30 Is this a small device that the patient is wearing Q. 31 to help? 32 It is various types. What we're trialling at the Α. 33 moment is really to assess what is the technological 34 platform that we need for that specific type of care. 35 36 I'll give the example that is currently rolled out from Royal Prince Alfred, which is the wound management or 37 the remote wound management system. 38 That enables our clinicians from the RPA wound management to connect with 39 40 patients rurally, have them use their phones to, you know, 41 take pictures in a secure way, transfer them to RPA, where a nurse or a doctor would review it, have help from the 42 43 software to help calculate how is the wound progressing and 44 then either ask, "We need to see you again because it is 45 not going in the right way", or "Continue your treatment 46 because it's all good", or prescribe a new kind of approach. So that's a good example of a project that is 47

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1 starting from a specific hospital and we've collaborated 2 with them in certain components, and now that it's 3 demonstrating that it's a successful program, we're 4 exploring how could we reproduce it in another way. 5 So there are specific areas where, you know, remote 6 medicine is currently being developed in New South Wales. 7 8 I'll just add another example, which is slightly different 9 but it's still an important example. Increasingly, we can 10 help patients that are waiting for surgery, and elective surgery, to be more active, prepare themselves for the 11 surgery. 12 13 14 So this is someone that might be scheduled for a hip Q. replacement or a knee replacement in 10 months time? 15 16 Exactly. Exactly, and those are exactly the areas Α. 17 where we've got some apps that are currently being used, 18 piloted and evaluated to help patients to be more active, 19 manage their pain. 20 21 Q. So, what, they're sending messages saying, "Perhaps 22 you should get off the couch now"? That are various prompts that are given to patients 23 Α. 24 through those systems an we're currently exploring, again, how to embed them as part of the model of care, and we've 25 26 done some trials and pilots over the last few years to try 27 to enhance care that's currently delivered through those 28 digital tools and help patients to almost like have more 29 connections with the healthcare system compared to what we 30 can do through an outpatient clinic process so that they 31 get to surgery either more ready or at times even avoid the 32 surgery, if their state is improving significantly. 33 34 Sorry, out of context again, and no doubt explored Q. later, but in the same podcast - so in my mind, and only 35 36 because you are, I think, the head of the artificial 37 intelligence task force --Task force, yes. 38 Α. 39 40 Q. -- the physician from Boston Children's was also talking about ambient AI - in other words, the nurses in 41 the room with the patient saying, "I'm doing this and I'm 42 doing that" and it's all recorded and it goes straight into 43 44 the digital record, which seems pretty revolutionary. 45 Α. We know that there are technologies available to do 46 that, but we're not currently rolling out any pilots in 47 that space.

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1 2 3 4 5 6	Q. It sounds expensive to A. But that's something that obviously the AI task force will have to assess, discuss and make sure that we have, you know, a good rigorous process to make sure that if we adopt any technologies like this, supported by AI, you
7 8 9	know, that it benefits our system and that's the focus that we will have, yes.
10 11	THE COMMISSIONER: Thank you. Sorry to distract you.
12 13	DR WATERHOUSE: That's okay.
14 15 16	Q. If we could go back to paragraph 51, please. A. My apologies, which one?
17 18	Q. Paragraph 51? A. Thank you.
20 21 22 23 24	Q. So that and the paragraph that follows are both talking about the emergency care access and treatment protocols, or ECAT protocols. Can you tell us a little bit about what these protocols cover in terms of clinical activities?
25 26 27 28 29 30 31 32	A. Yeah. So these protocols are standard protocols covering 73 different clinical areas and these are usual presentations at an emergency department, so it can be managing a wound, it can be assessing a patient that seems to have respiratory deterioration. So there is a broad range of clinical areas that are covered, 73 different areas.
33 34 35 36 37 38 39 40 41 42 43 44	But it's all about making sure that we start the treatment as quickly as possible and in a safe way, giving nurses all of the guidance required to be the first responder to start the treatment, again, in a very standardised way. And we know from previous research studies that we have done that this can actually accelerate access to health care, without generating any complications. It's a very safe way to do it, and that's why we've done it through those, you know, standardised protocols so that it's a really simple, step-by-step way to initiate care for those patients.
45 46 47	Q. I understand that those are not yet evaluated, it's early days. But do you have any early indications about the perspectives of consumers and staff in relation to

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1	those protocols?
2	A. There has been quite a lot of studies actually done in
3	New South Wales with regards to this kind of process - not
4	the 73 standardised protocols that we are now implementing
5	statewide, but there has been prior studies that have
6	demonstrated good benefits, good acceptability, both from
7	consumers and clinicians, and we have an evaluation plan in
8	place for that ECAT, so that now that it's at the state
9	level, we can continue to monitor their impact. But
10	there's already evidence published in the literature about
11	the benefits of those kinds of protocols.
12	
13	Q. And are they well accepted generally, in the
14	literature, by doctors who may feel that this has actually
15	been their responsibility, that nurses are moving into that
16	area?
17	A. New models of care always can face resistance from
18	people that have traditionally been responsible for certain
19	aspects of health care. What we know is that all
20	healthcare systems around the world are moving towards
21	really making sure that every type of professionals are
22	working at what we call the top of their scope of practice,
23	because that's really where we need their expertise.
24	
25	So our knowledge about this specific kind of programs
26	is that they're well accepted, because clinicians and, you
27	know, medical emergency department clinicians, when they
28	come to see the patient after a protocol was used to
29	initiate treatment, it gives them the reassurance that the
30	right things have been done, the early diagnostics that
31	needed to happen before they would arrive and start to
32	provide the additional treatment was also done at the right
33	time. So overall, acceptability has been good, but like
34	any changes to models of care, we need to engage with
35	clinicians to make them also aware of the scope of this,
36	reassure them about, you know, the way it's going to be
37	implemented in a safe way for their patients, and therefore
38	we need to invest time and effort to do that, and that's
39	what the ECAT program will do as well.
40	
41	Q. If we move down to alternative models of care
42	initiative at paragraph 54.
43	A. Yeah.
44	
45	Q. So this is a way of stopping low-value services, and
46	the example given is in an intensive care unit, reducing
47	the number of unnecessary pathology tests. Has that

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reduction in unnecessary testing been embedded in that ICU? 1 2 Α. So this program was done in collaboration with NSW Pathology. We started this in a few clinical settings to 3 4 actually develop the tool that would capture the volumes of 5 tests being prescribed and provide a way to feed back to clinicians those different levels. 6 7 8 We now have a functioning platform that is still 9 ongoing and what we're doing now is to start to engage with 10 more clinical settings so that they start to reflect on 11 that platform. It's not yet implemented across the entire 12 state, but our intensive care New South Wales team is in 13 charge of continuing to disseminate that platform. 14 15 Q. And bearing in mind that some staff rotate, junior 16 medical staff in particular, and obviously nurses, maybe 17 agency nurses and so on, in the ICU or ICUs where it was 18 piloted, have they been able to maintain it, despite the 19 changes in staff? 20 That's a good question, and I don't have that Α. 21 information on top of mind. That's something that I would 22 have to ask Intensive Care NSW to see if they've recently 23 evaluated the - you know, how sustainable has this program 24 been in the first ones where they established it. I was 25 only able to reflect on the further implementation that 26 we're doing. That's something that we can certainly check. 27 28 And the further implementation would be going to Q. 29 emergency departments? So that's the next project that we've already 30 Α. Yeah. 31 started to pilot, to assess what is the level of testing in 32 emergency departments. We're working with our Emergency 33 Care Institute to develop that one. But this one has not come to a full fruition yet. 34 35 If we go to paragraph 55, please - and this is about 36 Q. value based surgery - so you can see just over halfway 37 38 down, it says: 39 40 The value-based surgery work aims to ensure 41 that surgery is performed in alignment with the evidence base about clinical 42 43 indications and identifying (and 44 discouraging) procedures that are being 45 undertaken where there is no clinical 46 benefit to the patient. 47

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Hasn't the ACI got more of a responsibility than merely 1 2 discouraging people from doing procedures when there is, as 3 you say, no clinical benefit to the patient? 4 Our responsibility is to be very, very clear in our Α. 5 models of care and our clinical practice guides when a procedure shouldn't be performed anymore or if 6 a procedure is still, you know, not just recommended but 7 8 should be part of standards of care and therefore be 9 offered to patients systematically.

What that specific sentence and program reflects on is 11 the fact that, for some procedures, it's not the procedure 12 on its own that should never be done; the reality is that 13 14 it should be done for specific patients with specific That's where we say we need to 15 clinical indication. 16 encourage and work with clinicians so that we reduce the number of patients that may receive a back surgery or 17 a knee surgery whilst they didn't have all of the clinical 18 criteria that would make them a likely patient that would 19 20 benefit from that surgery.

22 The reality is that in many clinical areas, it's a bit 23 of a grey zone. The literature says - you know, when they 24 assess certain types of surgery, they may say 50 per cent of patients received surgery and did not benefit from it. 25 26 At times it is because of their age, at times it's because 27 they had other conditions that were preventing the surgery 28 from being effective for that patient. That's why, in our 29 models of care for those procedures, we're not saying "Don't do it", because the reality is that those procedures 30 31 are still useful for some patients. What we're saying is, 32 "You need to have a multidisciplinary team discussion in 33 place so that your colleagues will help you to decide if that patient will benefit from surgery." 34

36 So that's where we're trying to work through that, you know, encouraging and convincing the system, because we 37 know that ultimately, at the end of the day, for those 38 procedures, it's the clinical team and the patients that 39 40 will have to make the decision. It's not the role of ACI 41 to govern that, you know? But ACI, of course, when a procedure is no longer perceived as being the gold 42 standard, we have the responsibility to make it clear in 43 44 our models of care and our clinical practice guide. 45

46 So I just wanted to clarify that the hardest work 47 really is in those areas where it's more of a fit between

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1 the patient and the procedure, where we need to work with 2 clinical practices more in a collaborative way and it 3 cannot be prescriptive, you know, to reduce that low-value 4 care. 5 So even if there is a particular cohort, say, of 6 Q. 7 patients for whom there is demonstrably no benefit, you 8 would still say that the ACI's role is not to do more than 9 discourage clinicians doing those procedures in that 10 cohort? The ACI doesn't have, as part of its statutory 11 Α. 12 function, the role to mandate clinical settings to do or 13 not do. 14 THE COMMISSIONER: 15 Q. You can't injunct services --16 Our role is to provide clear advice that then they Α. 17 would have to reflect on. But it's not part of our powers or levers to be able to dictate what clinicians would do. 18 19 We are there to provide advice, clear advice, and then work 20 with them to ensure again we persuade them to change their 21 practice when it needs to change. 22 If you had those powers, it might be as dangerous as 23 Q. potentially beneficial. Because some of those judgments 24 25 that you're talking about really need to be made at 26 a clinician level rather than at your level? 27 Α. This is absolutely correct. Medicine is practised as 28 The relationship between nurses, doctors and a profession. 29 the patient is really paramount, and it's not for a central 30 agency to dictate, you know, what care a specific patient should receive. 31 32 33 Again, I'll just emphasise that our responsibility is 34 to be very, very clear about the status of the evidence and what's currently recommended as care, and then clinicians 35 will make the final judgment about the service they will 36 37 provide to individual patients. 38 THE COMMISSIONER: Sure. 39 40 41 DR WATERHOUSE: Q. We might pull up the value based surgery document on the screen, which is exhibited to your 42 statement, it is at B.023.064 [MOH.0001.0282.0001]. 43 44 45 Now, that was published in November 2023. What is the 46 status of this document? Is it a policy, a guideline, a discussion paper? How would you characterise it? 47

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1 Α. So this is a clinical practice guide. It means that, 2 you know, it's not a policy, it's not something mandated; 3 it's a document that summarises the status of the evidence 4 at the moment in those specific surgical areas and provides 5 advice to clinicians with regards to how to assess patients that may have indications that would require those 6 surgeries and give them guidance about how do they assess 7 8 if the patients would benefit or not from it. 9 10 So it's much more about providing guidance, and "guidance" by definition is not something that you force 11 12 upon people; you guide them in the right direction. So 13 that document is really there to make it very, very clear 14 about, you know, what are the indications, what is the right process to review them and what is the right process 15 16 to engage with patients in a way that will create a good 17 shared decision-making for those specific value based 18 surgical procedures. 19 20 If we just go to page 9 of that document, so it Q. 21 discusses there in the first paragraph - it says about 22 halfway down that it is suggested that at each local health 23 district they establish a surgical committee, and further 24 down. that that will assist the director to make clinical 25 adjudications about recommendations for admission, so when 26 a patient is being put forward to be admitted for 27 a procedure. And those decisions would be made when they 28 fall into the category of discretionary procedures listed 29 in the elective surgery access policy. So for the procedures identified in this document, have they been 30 31 added in to the policy now, so that that is a guide for the 32 districts? 33 Α. If I remember well, yes, those conditions have been 34 added and identified as procedures that are potentially of 35 low value. None of those procedures are low value for 36 every single patient. It's really about making sure that they're now assessed through that process and that's the 37 guidance that we're currently providing in terms of how to 38 manage it locally so that clinicians are supported to 39 40 reduce the volume of those surgeries and really make sure 41 that they're targeted to the right patient. 42 43 Q. So they're discretionary insofar as they will be 44 appropriate for some patients, but they need to look at the 45 clinical indications that are based on the evidence; is 46 that a fair way to describe it? 47 Α. It is.

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2 So given that the role has been given to the districts Q. to set up these committees to sort of support that 3 4 adjudication process, is there a role for ACI to support, 5 say, the smaller districts that may not have the resources 6 to put that governance structure in place effectively? 7 Our surgical care network is currently working with Α. 8 the various districts to, you know, make them aware of the 9 clinical practice guide, assess how can they locally 10 progress that work. And you are correct that the bigger districts have got bigger departments, probably more 11 12 structures in place and more support to be able to roll this out, and traditionally, the ACI always provides more 13 14 support to rural districts or smaller hospital settings where they don't have that change management resourcing 15 16 available, so that they can, you know, reflect on their 17 processes and establish the right local approaches. 18

The ACI would not replace their clinical governance processes, that's really something that is part of the local health districts' mandates, but we would provide advice, toolkits and other tools that would help them to implement it and make it - you know, make it a reality at the local level.

Because our surgical clinical network is a representative network, you know, we've got all of the directors of surgery, many directors of anaesthesia, from the different districts, we can really connect across the entire state.

Q. One of the procedures - we don't need to go to this
page - but one of the procedures that's talked about is
myringotomy without insertion of grommets. That's
a procedure done by ENT surgeons; is that correct?
A. Yes, that's correct.

THE COMMISSIONER: I'm not sure I know what that is. What is it?

41 DR WATERHOUSE: It's when they insert a little hole in the 42 eardrum and put an aeration tube in.

44 THE COMMISSIONER: An aeration tube?

46 DR WATERHOUSE: And aeration tube, yes, when you have 47 chronic obstruction in the ear.

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1 2 So there may be some districts, smaller districts, Q. 3 that would only have one ENT surgeon, perhaps, out in the 4 rural areas, for example. How would they have a - sorry, 5 I can see you nodding in that regard. So that is correct, that it would be an ENT surgeon; yes? 6 7 Α. Yes. 8 9 Q. That does these procedures? 10 Α. Yes. In some distribution there may be only one ENT surgeon or a clinical practice where various surgeons would 11 rotate to cover the needs of surgery in those districts. 12 13 14 Q. So how would a district put in place a governance process when they don't have peers that they can call on to 15 16 actually adjudicate in relation to recommendations for 17 admission for that procedure? 18 So that's something that we would work with the Α. Yeah. 19 districts to try to find a solution for. Very often, it 20 would be that we need to have a multidisciplinary review 21 program, not just comprised of specific surgeons but, 22 instead, also mobilising paediatricians, if we're talking about grommets, it could be something useful, just so that 23 24 it's not just based on a single surgeon's decision, socialised with a group through a rigorous process, so that 25 26 various types of clinicians can provide an input. 27 28 So we wouldn't expect all of those to be done within 29 each of the surgical specialties, anyway, and if there's 30 any support to give to some of those regional areas, that's 31 something we would explore from the ACI perspective, but it 32 would be only to facilitate the process, again, not to make 33 the decision on their behalf. 34 THE COMMISSIONER: 35 Q. How long has spinal fusion for 36 back pain alone not been recommended? 37 Α. My apologies; I didn't get your question. 38 How long has spinal fusion for back pain alone not 39 Q. 40 been recommended? 41 Α. It's not really time based. It's really one of those 42 conditions where, compared to the volume of surgeries 43 performed, the literature suggests that many of them do not 44 benefit patients. 45 46 We're straying, but just that when I started a lawyer Q. 47 which is a long time ago, every single plaintiff with a bad

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1 back had spinal fusion surgery. 2 Sorry, I didn't quite get your question. So do you Α. 3 mean to ask how long have we known that --4 5 Q. Yes. 6 Α. I wouldn't be able to say exactly since when the 7 international literature became quite consensual on that, 8 but it has been a few years. 9 10 THE COMMISSIONER: Thanks. 11 DR WATERHOUSE: 12 Q. Could we just move to paragraph 58 of 13 the statement, please. So this is about reducing clinical 14 variation, sometimes called unwarranted clinical practice 15 variation. So it's said that this is an area of strategic 16 importance for the ACI. Can you just explain in a bit more 17 detail what this is? 18 So what we call unwarranted clinical variation Α. Yes. 19 is variation in care that patients are receiving that we 20 cannot put - or that cannot be explained by variation in 21 patients' needs or preferences for care, okay? So 22 patients can, you know, have specific needs, but, of course 23 some patients may not want a surgery, for example, or some 24 patients may not want certain types of cancer treatment. 25 And there are procedures where we can see that the care 26 that's provided to patients does vary, and it doesn't 27 correlate with variation in needs or evidence that it's the 28 expectations of patients that are different. 29 That variation can be in terms of the actual 30 31 procedures that are offered to patients or the way those 32 procedures are performed, you know, laparoscopically or 33 through open surgery or done in hospital versus through 34 support at home. There are various ways to look at variation to reflect on that. 35 36 37 What's unwarranted really is where, you know, for example, we may think that in a certain region they've got 38 more of a certain type of procedure and it's not because 39 40 they've got more patients with an indication for that 41 procedure, okay? So that's unwarranted clinical variation. 42 43 And when you identify an example of unwarranted Q. 44 clinical variation, do you find resistance to changing practice? 45 46 There's very often resistance to change, either Α. because clinicians are not aware that the evidence in the 47

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literature has changed and, therefore, their practice needs 1 2 to change, or because, you know, the change management 3 required to support them to provide care in a different way 4 is significant. You know, clinicians may not want to 5 change the way they deliver care if they're not supported in the right way through outpatient support and all of 6 7 those things. But it could also be resistance because 8 patients need to also be informed about the fact that the 9 standards of care are changing.

It is well known in the literature that, you know, 11 12 following a demonstration of evidence that a certain 13 practice is not a good practice anymore or that a new 14 practice needs to be adopted, there's ample evidence that suggests that it takes time, it takes a few years before 15 16 clinicians will adopt it, and there are pockets of 17 clinicians that do not change their practices on the longer 18 That's why agencies like the ACI and the Clinical term. 19 Excellence Commission, for example, exist - because we're 20 there to support that process, engage with clinicians, make 21 sure that they're aware that the standards of care have 22 changed, mobilise their clinicians so that they're informed 23 about it, and also at the right times find the right 24 champions that will say publicly, "It's time for us to change the way we deliver care for patients", you know, and 25 26 we use different levers to try to address the clinical 27 variation. But, you know, spontaneously, we know that it 28 takes effort to support adoption of those new practices 29 across complex healthcare systems like NSW Health. 30

Q. Is it sometimes the case that there could be a vested interest in maintaining the status quo even when the practitioner is presented with the evidence that it's no longer good practice?

There has been studies that have demonstrated that 35 Α. 36 sometimes, financial or, you know, regulatory interest come 37 in the way, and that means that we need to work at identifying those potential barriers and make sure that we 38 39 adjust funding models and regulatory approaches so that we, 40 you know, make it easier for clinicians to adopt those when 41 it is known that it could have a financial impact or an impact on medicolegal issues, which, of course, are very 42 43 legitimate things to consider when we want to promote 44 adoption at the system level. 45

46 Q. And that's a role for the ACI, to be involved in some 47 of those changes?

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1 Α. The role of ACI is really to identify when such levers 2 will either become a barrier or would facilitate adoption, 3 and work with our partners within the ministry or with 4 other pillars or with the local districts so that we make the right adjustments and really making sure that we 5 6 facilitate adoption by clinicians. But it's not for the 7 ACI to make all of those changes, given the fact that we're 8 an advisory body much more than a body that, you know, 9 governs and manages the system. 10

Understood. So what actions is the ACI taking in 11 Q. 12 relation to unwarranted clinical variation currently? 13 Α. So, of course, we've got 42 different clinical networks, many of them do have a reflection on clinical 14 15 variation at the moment, and we produce, again, clinical 16 practice guides that really clarify to clinicians what is 17 the current standard of practice. We develop tools so that local clinicians can start to work with their peers to 18 19 identify where there's clinical variation and start to 20 address it, and we're currently also designing a more 21 systematic program of measurement and action to cut across 22 the different specialties to more effectively continue to address clinical variation. 23

The reality is that the ACI has worked on clinical 25 26 variation since its inception. Now, we're at the stage 27 where we can formalise and systematise a lot of that work 28 and prioritise in areas where there will be a stronger 29 benefit, and we're currently restructuring our clinical variation work through a clinical variation action plan 30 31 that we have endorsed again before the pandemic, and 32 therefore we had to be cognisant of the fact that clinical 33 settings were disrupted at that time. But now that we're 34 getting to a different phase, with many clinical settings, you know, back to where they were, it's time for us to 35 36 re-instigate that work, and that's part of our priorities 37 for the next few financial years.

Q. Would there be scope sometimes for, say, a slightly
more interventional role in the sense that you might have
a policy that requires clinicians to inform patients about
new evidence that - in relation to a procedure they're
recommending?

A. We already do that through our clinical guidance when
there is already a shared decision-making process. We're
already suggesting to clinicians that they use the tools
that we have provided so that they are more systematically,

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1 you know, touching on the key points. We've not mandated 2 However, in some clinical areas, there could be it. 3 a mandate for some of those tools. 4 5 It's the same with clinical checklists. We can 6 identify when we feel clinicians need to more 7 systematically go through specific criteria but again they 8 are not mandated at the moment as part of our work. We 9 would only propose to the ministry to do that when there's 10 absolute evidence that this is now standard of care to the level where every single patient should go through it, and 11 at times, when we support the review of policies, we do 12 propose for those tools to be referred directly in the 13 14 policy. 15 16 We might move to "Technical and Clinical Innovation", Q. 17 which is your next section, so if we can just scroll down, I think it is probably the next page. There we go, just 18 there - or maybe if we go to, sorry, paragraph 64. You've 19 20 described there some advanced therapeutics that ACI has 21 been involved with or OHMR has been involved with, and they 22 look like very interesting innovations obviously. Can you tell us about the bacteriophage or "phage" therapy, and in 23 24 particular the clinical implications for this? 25 Α. Yes, so bacteriophages viruses that are harmless to 26 humans that we know are harmful for bacterias. So that's 27 the concept. So some viruses do attack bacterias, 28 bacterias are a bigger organism compared to viruses. In 29 nature, we find a lot of viruses that are actually keeping in check some of those bacterias. 30 Therefore, phage therapy 31 is really the clinical application of that concept, where 32 we can use some viruses that we know will not harm patients 33 but will target some of the chronic infections that they 34 have. 35 36 The purpose is for us to create a system where we can more systematically identify the bacterias, their 37 susceptibilities, and find in our bank of viruses some that 38 would enable to target a treatment to those bacterias. 39 40 41 It's mostly used as an adjuvant to usual care, so by "adjuvant", I mean as a, you know, a complementary kind of 42 therapy, and it's mostly used in cases where patients have 43 44 got intractable infections that are not responding to 45 antibiotics anymore or have bacterias that are

46 multiresistant to all of our antibiotics, and there's been 47 cases treated where we cured them of those chronic

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1 infections because we've found the right virus that can 2 then target those infections and kill them in the body, and 3 afterwards, all of those viruses are, you know, also 4 expelled from the body by the immune system. 5 6 So that's what we are doing. It's an emerging 7 science, and we're working very closely with the scientific 8 team at Westmead to progress that, but also progress 9 a model where it can be made accessible and available more 10 broadly across the system, and that's what our advanced therapeutics team is working on at the moment, really 11 12 partnering around the science but also the delivery component of it, just so that we can really harness the 13 14 benefits for our patients. 15 Just on that, so at the start of 16 THE COMMISSIONER: Q. 17 64 you've said that the Office for Health and Medical 18 Research advanced therapeutics team supports the 19 development and delivery of, in this case we're talking about bacteriophage - or "phaige"? 20 21 Α. I think it's either said as phage or "phaiges" in the 22 literature, so --23 24 Q. I'll probably use both. Just if you want to, could you just - sorry if you haven't given a complete answer, 25 26 the way the OHMR supports the development of this 27 particular therapy, is there anything further you want to 28 point out in terms of what the OHMR does? 29 Α. Well, what the office does, when we find a new area where there's obviously emerging evidence about a new 30 31 treatment that will come and we could use, the first thing 32 we do is that we assess what's the current capability of 33 the system to actually integrate that new therapy into the 34 system; is there further research that we need to do in support; is there some infrastructure that we need to put 35 36 in place? 37 In the case of phage therapy, for example, we know we 38 need a biobank to be able to deliver that as a service, and 39 40 by "biobank", I really mean a place where we will have 41 different viruses, different types of viruses available 42 then to be manufactured and produced, to be able to be 43 given to a patient. If we don't have that bank of virus, 44 then it's unlikely we're going to find a specific bacteria 45 in a patient that could be treated by that. And of course, 46 it's the role of OHMR to work with the system at identifying, you know, do we need to work with regulatory 47

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9 for example, that aim at lifting that capability of the 10 That's where you can see that the Office for system. 11 Health and Medical Research has got mandates that relate to 12 the proximal part of research, you know, really making sure that we accelerate research so that it translates into 13 14 useable products, and then the ACI can take the relay and work with the clinical systems to embed them after. 15 And 16 again, at some point, phage therapy is probably one where some networks of ACI will start to work on models of care, 17 18 for example. 19 20 DR WATERHOUSE: Q. Just one other question about the 21 phage therapy, is it fair to say that that's part of the 22 answer, scientifically, to the problems we see with 23 antibiotic resistance in the community? 24 It's one of the tools that we have. Of course, we Α. 25 need to make sure we use antibiotics in an appropriate way, 26 and we've got a lot of clinical models that do cover that, 27 and the CEC, of course, have got a very important role in 28 But this one is helping us - when things drug management. 29 start, unfortunately for the patient, to be really difficult to manage, you know, we've got some patients that 30 31 we've treated that spend weeks in hospital because of those 32 chronic infections, this is an additional tool we can use 33 and offer clinicians so that they can resolve those 34 multiresistance issues. 35 36 If we just scroll down to the second example, 64b, so Q. this is gene therapy, and in particular, viral vector 37 delivery technology. Can you just outline what OHMR's role 38 39 has been in that and what promise it holds? So gene therapy is a very broad term that 40 Α. Okay. 41 means, you know, using fragments of genes and replacing those fragments of genes into, you know, cells in different 42 43 organs to make those organs or biological systems, you 44 know, start to produce the protein that, from a genetic perspective, they are not producing, or stop producing some 45 46 of those proteins that are creating illnesses. And viral vector is a specific technology that enables the 47

agencies to make sure that we can produce those new therapies in a way that meets the TGA, for example?

We work sometimes with pathology and other groups to

make sure that we could bank those new therapeutics.

work with local districts when they say that their staff

are not trained to be able to manipulate some of those new

therapies as well. So we've got programs in pharmacology,

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transportation of those gene therapies into the appropriate 2 cell.

So let me just explain, a viral vector is again a virus that is innocuous or harmless for humans, that we use as a way to deliver a gene therapy to a specific organ. And what we do, or what the researchers and the academic teams do, is that they find ways to identify and package viruses so that they will respond to a specific receptor on specific cells, so that, a bit like a mailbox system, they will deliver the gene therapy in the right place, okay?

We've all heard of the, you know, SARS-CoV2 virus and 13 14 the way it was linking to the spike protein, you know, well, in a similar fashion, the adenoviruses and the 15 lentiviruses that we use in viral vector therapy identify 16 17 a specific protein on the surface of cells, and then they get into the cell and they exchange the faulty gene for 18 19 a good gene and then that cell starts to produce the right 20 protein, okay? So that's, in a nutshell, the technology 21 that we're talking about.

It's not the only one to give genetic therapies, but 23 24 it is one that. in New South Wales. we knew we had 25 expertise and we had teams that were able to potentially 26 bring this not just in the research space but actually in 27 the clinical space, so that we would start to treat 28 patients and potentially even turn this into 29 a commercialisation endeavour.

31 The role of OHMR has been to work with the system at 32 identifying what were their needs in terms of the research 33 they needed to do to bring that technology to fruition, 34 work again with regulatory organisations so that we would be able to bring the system to be able to manufacture those 35 36 new therapies in a way that would fit with the TGA, for example, and also identify how would we start to produce 37 this in a way that commercially would make sense and in a 38 way that would also enable our system to access that 39 40 technology at a lower price, because obviously you can 41 purchase those technologies internationally at the moment, 42 they are extremely expensive treatment.

44 So the role of OHMR is to work with the system so that 45 we work on those different aspects, making sure it happens. 46 Of course, we never produce the actual treatment, that's all done at the local level, with the research institutes, 47

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1 but it's about being the catalyst of that change so that it 2 Many research teams come to us and say, "We need happens. a bit of help on this aspect", or, "We need you to help us with our intellectual property", or, "We need you to help 3 4 us in terms of training of some staff", for example. 5 In viral vector, we did all of those things through the last 6 few years so that we'd bring that manufacturing capacity to 7 8 New South Wales. 9 10 Is New South Wales leading the way, in terms of the Q. nation, that is, in regard to these two, the gene therapy 11 12 and the bacteriophage therapy? 13 Α. In many respects, yes. In terms of viral vector, we 14 have announced yesterday, actually, the creation of a company that will lead the manufacture of viral vectors, 15 16 and it's the only such facility that will exist in 17 Australia, and in many aspects of gene therapies we have, you know, world-leading teams, really, in certain areas. 18 19 20 But gene therapy is such a broad area. There are, of 21 course, pockets of excellence all over the place, but 22 New South Wales is really well positioned overall in precision medicine, you know, and gene therapy and our 23 24 capability in that space, in the kids' gene therapy 25 treatment as well as increasingly in adults, is really 26 a strength that we can build on. 27 28 Does that open the door perhaps for collaborations Q. 29 with other states to be able to roll out innovations from New South Wales? 30 31 Absolutely. And OHMR has in the past established Α. 32 networks that contributed to the national scene so that we 33 would mobilise not just the experts and the leaders that we 34 have in New South Wales but the broader group or community 35 of academics that are working in a specific area, and 36 I would say that for phage it's a good example because we have supporting the academic team to start a national 37 network of specialists in phage therapy, again making sure 38 that we collaborate and coordinate across states. 39 40 41 Q. Just moving down to an example of the technical innovation, and you've talked there about virtual care, we 42 43 touched on that before, can you maybe just briefly outline 44 the advances that have been made in the last three years in 45 relation to virtual care? 46 So there's been obviously a really increased Α. Yes. rate of adoption of virtual technologies in NSW Health. 47

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The fact that, you know, through the pandemic we were not 1 2 able to bring many patients to physical outpatient clinics 3 for the purpose of managing the pandemic has already 4 contributed to that. It has helped clinicians also to see 5 how they can use those technologies as part of routine care, and we can see now we have higher adoption rates of 6 7 virtual modalities to treat patients, compared to prior to 8 the pandemic.

10 There's been advances in terms of the tools that we have in New South Wales, so we've got a platform called 11 myVirtualCare, it's one of the platforms that is used to 12 treat patients on an outpatient basis or after they're 13 14 discharged from hospital, so that clinicians and patients can have a joint consultation without patients having to 15 16 come physically to the clinic or to the hospital, and of 17 course, in rural settings, that means, you know, hundreds or thousands of kilometres saved for those patients. 18

20 There's been advances in terms of what is known in the 21 literature as virtual wards, which really means - or 22 virtual hospital, where many of the functions that we do for patients admitted to hospital can now be done at home, 23 24 if we deliver to the patients the right technology so that they can be followed centrally from the hospital but by 25 26 remaining at home, and, you know, RPA Virtual is a good 27 example of that being progressed in New South Wales.

Of course, Telestroke is an example that I've given, and it is a virtual care platform because the clinicians that treat patients for stroke in the hub do receive all of the imaging done locally through that virtual system so that they can interpret directly all of the imaging for patients.

36 So there are different modalities that we've progressed. And I will just conclude by the example of 37 HOPE again, the health outcomes and patient experience. 38 It's a different type of virtual care. It's what we call 39 40 asynchronous virtual care, so it is virtual care that it is 41 not - where patients and clinicians are not looking at the same thing at the same time, but ultimately it's virtual 42 43 care because it enables clinicians to see from their 44 patients if they're not doing well and if they need to be contacted, without having the patients needing to come in, 45 46 in the clinical office, or the emergency department, and therefore it is providing a virtual modality to provide and 47

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deliver that care. So I just wanted to provide a few
examples of the things that have really progressed within
NSW Health.

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Q. And HOPE is about patient experience as well as patient outcomes; is that correct?

7 Yes, that's correct, and by "patient outcomes", we Α. 8 really main their symptoms, their quality of life, you 9 know, the things that they would express if they were to come to a clinic, you know, to say, "I'm not doing fine", 10 so we're talking about pain, we're talking about sleep, 11 we're talking about their ability to move around, you know, 12 13 things that relate to their quality of life, but it is also 14 about their experience. And by "experience" we mean, you 15 know, do they feel that care was provided in a way that 16 promoted good continuity or did they have to repeat the 17 same information at every visit, for example? Do they feel that they've got enough information to take care of their 18 problem when they go back home? So the platform covers 19 20 really both aspects.

22 Let's move to paragraph 66. This is now talking about Q. 23 identifying, assessing, developing and implementing 24 innovations. In 66a there you talk about the critical 25 intelligence unit. So can you perhaps just start by 26 discussing exactly what that is? 27 So the critical intelligence unit is a small Α. Yes. 28 team that we have established during the COVID pandemic, so 29 it started as the COVID-19 critical intelligence unit, and it's basically a small unit that has the mandate to provide 30

31 extremely rapid review of evidence to support 32 decision-making at the right time, you know, supporting 33 myself, supporting other decision-makers in the system, 34 ahead of specific meetings or ahead of specific decisions that they had to make, very often during the pandemic on 35 36 a daily basis, as you can imagine, and making sure that we were always going back to the literature and assessing how 37 knowledge was evolving. 38

Of course, during the COVID pandemic, you know,
a month away really meant that, at times, what we thought
we knew was completely changed, and that's why a critical
intelligence unit was required. We needed a dedicated team
that had the time to track the progression of the evidence
and provide, you know, independent advice to support
decision-making.

1	It was a highly successful model, you know, and
2	therefore, we were asked to keep this going, both for the
3	purpose of continuing to support clinical decision and
4	policy decision in New South Wales with that capacity to
5	review rapidly the literature and provide scientific
6	advice, but also as a way to be prepared if we got another
7	pandemic or a recrudescence of COVID-19. So it was part
8	of, you know, making sure we would keep an infrastructure
9	that had demonstrated that it could benefit the system.
10	····· ································
11	Q. About just over half way down that paragraph, after
12	the brackets, it says:
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14	Publications that describe innovations in
15	clinical care in [New South Wales] are
16	compiled into an Evidence Digest
17	
18	Why is it limited to innovations and clinical care in
19	New South Wales?
20	A Actually it's not the right way to describe it. This
20	is the evidence that's coming internationally but the
22	process is that within New South Wales we want to reach
23	clinicians from our system to inform them about that
20	international evidence. So it is absolutely about all of
25	those international academic journals it's about the
26	international organisations that are providing advice as
20	well and the critical intelligence unit provides the
28	weekly evidence digest looking at all of those sources of
29	information So it's not just - it's not just about the
30	innovations within New South Wales
31	
32	0 I thought that might be the case but I wanted to
33	clarify
34	A Thank you for that
35	
36	Q. So it says that it goes out to 1100 subscribers.
37	Would you agree that this is actually a very small number
38	relative to the size of the workforce in NSW Health?
39	A. We obviously want to increase the number of
40	subscribers to the evidence digest. It is increasing on
41	a month-by-month basis It is used - the subscribers are
42	70 per cent clinicians and 30 per cent are people that say
43	they've got a policy role in the system or more of
44	a managerial role in the system. We don't know if those
45	70 per cent of clinicians, you know are they all the ones
46	that are organising care in New South Wales? We don't know
47	that. But we will certainly continue to publicise the

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existence of the evidence digest so that we increase the
number of subscribers, but in just a few months of
operation, it is still quite a good reach. But we're
continuing to advertise it.

6 So I appreciate it's too early to have been evaluated Q. as yet, but is there any sort of plan to look at whether 7 8 these evidence digests are actually translating into 9 decision-making on that basis of what the evidence is? 10 Yes, and what we do is that we do track the specific Α. papers that are open or accessed through the digest on an 11 12 ongoing basis, so we can see the reach, which type of paper 13 seems to have, you know, got interest from clinicians, and 14 the digest is not just used by the people receiving it 15 through our electronic mailing system; it's also used by 16 different teams that are currently developing and designing 17 models of care.

19 So we do have other processes where we discuss the 20 digest with specific clinical groups and therefore we 21 already have evidence of elements of the digest that were 22 picked up and integrated into new models of care, because 23 it's part of the evidence review tools that we have.

25 Q. Is there a requirement for policymakers to refer to 26 these evidence digests and align their policies to them? 27 No, there's no requirement. This is really provided Α. 28 for the sake of disseminating that evidence. We do have 29 other tools that synthesise the evidence in specific areas that we produce - evidence checks, et cetera - and very 30 31 often we're asked to produce them for policymakers at the 32 time of their review.

34 So is there any way in place that you can manage Q. inconsistency in terms of some of the policies coming out, 35 36 relative to the evidence, that they may not be informed by? There's currently no mandatory processes in place for 37 Α. What is happening at the moment is that, 38 that to happen. you know, we receive requests from all of the different 39 40 branches of the ministry and many pillars and local 41 districts. When they are revising policies, then they ask 42 us to provide that kind of evidence support. 43

Q. So on the next line, it refers to this digest
subsequently being reviewed by a clinical panel to identify
potential game changers. What happens when they identify
such a game changer?

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Yes, so just before I answer that, I just want to say 1 Α. 2 that a game changer for us is really an advance in clinical 3 practice demonstrated by the research that we feel will 4 change clinical care or will change clinical delivery of 5 So when our clinical panel reviews the digest and care. identifies that there's really a breakthrough in the 6 literature, what we do is that we would either go to 7 8 a specific clinical network to discuss this and see how we 9 can translate that into an existing tool or if we need to 10 develop a new instrument, but also at times we will surface it to our colleagues within the ministry when we feel that 11 it relates to a program of work that, you know, they're 12 13 working on, either in sustainability in health care or 14 virtual care or any different aspect. 15

16 So the ACI takes responsibility then of having 17 discussions with the appropriate group about what is the 18 best next step in terms of progressing that game changer.

It could still be that we need to wait for more evidence to accumulate before we're convinced we need to build a pilot, you know, or test some of those, or it could be that the game changer is actually helping us to inform the next iteration of a current program, and again, we bring it to different platforms including the future health steering committees when required.

28 Q. And at what point would the system - the health 29 services - be made aware that there may be something of 30 this nature on the horizon?

I would say that it's still variable because we're 31 Α. 32 really bedding this process at the moment, trialling to see 33 what's the best way to identify and then progress game 34 changers. We need to be cognisant of funding cycles. We need to be cognisant of the fact that for some of those 35 game changers, there's a lot of things that we will have to 36 adapt or adjust before we can actually roll them out, and 37 therefore, we need to also adapt it to the specific areas 38 that it relates to. 39

You know, as you know, it takes longer time to train people differently if a game changer is about using a different type of professional to deliver a certain service, or it takes time to adjust models of care if a game changer is more about specific aspects of the standards of care. So it will have to be variable, but again we're learning to work with that system. We think

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1 that the advance that we've made is to really make it 2 systematic, that we go through the literature and have 3 a mechanic in place to surface what's promising. 4 5 Q. Who's on the clinical panel that looks at these? So there's two clinical panels that we can use, 6 Α. 7 depending on the game changer. The first one is the Health 8 System Advisory Council, and the membership of the council 9 is available on the website. You know, it's a broad group 10 of clinical leaders across the system and managers that have leadership roles as well, and it is covers a broad 11 12 range of clinical areas. So I won't - you know. I wouldn't be able to name all of the members of the group. But we 13 14 also have what we call the clinical executive advisory group within ACI, where we've got surgery, trauma, 15 16 emergency care, anaesthesia, intensive care, general 17 practice represented, and they help us to really identify 18 not just that the game changers in a specific clinical area has demonstrated a potential benefit, but that it would fit 19 20 with the other clinical areas that they represent. 21 22 If we could just scroll down to the next page, so this Q. 23 is paragraph 66d, you note there that the OHMR and ACI 24 funded projects once completed are a potential source of Does the ACI or the OHMR 25 innovations for spread and scale. monitor how they are spread and scaled up? 26 27 It's variable, depending on the program. Α. Some 28 programs have much more mature monitoring processes in 29 place already. We are working at expanding that monitoring to all of the different programs, and that's why we've 30 31 established, within OHMR, a specific monitoring and 32 evaluation expertise. They're building new measures that 33 enable us to better reflect on that process. 34 Within ACI we do have an evaluation team that's 35 36 available at the right time to do the, you know, surveys 37 and data collection required to be able to reflect on a program. But for some of the programs, we still don't 38 have in place a fully fledged monitoring and evaluation 39 40 process. 41 Do you have a sense of some that have been embedded 42 Q. 43 across the system, having started at that initial project 44 level? 45 Α. Well, all of the measures that relate to our research 46 governance, clinical trial management, already have all of 47 that monitoring in place. All of the programs that were

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1 funded through treasury grants also have that monitoring 2 and evaluation process in place. Also, I would say that in 3 areas like trauma, intensive care, surgery, we've got many 4 really well-established monitoring programs that cover the entire state, and in many of those areas, you know, it's 5 a monthly review that our clinical teams are doing. 6 So those are a good example of where we've been able to really 7 8 progress a full statewide monitoring and evaluation of 9 impact.

In the next paragraph it refers to the new technology 11 Q. 12 and specialised services committee. Can you just give a bit of an outline of the assessment process that's 13 14 involved for the things that are put forward by districts 15 and pillars? 16 The first thing I will say is that I'm a member of Α. 17 that committee and I do represent ACI and the office in my 18 attendance to that committee. It's a committee that 19 receives requests for assessment of, you know, 20 technologies, that could be brought to the state level, and 21 what's usually done are evidence reviews about the

22 effectiveness of the technology; at times, economic 23 assessment, to also ensure that we evaluate the cost but 24 also the benefits and the ratio of costs to benefits for some of those technologies; and at times it does involve 25 26 specific work from the Agency for Clinical Innovation in 27 terms of assessing from a clinical perspective the 28 perceived need for those technologies and a reflection on 29 the challenges that would come from implementing them at the state level. So those are broadly the kinds of things 30 that are put in front of the committee for assessment 31 32 before stating if a new technology will be supported for 33 statewide use and implementation.

So if something were put forward by a pillar or one of 35 Q. 36 the networks, the clinical networks, so they put forward a new technology, is it possible that a local health 37 district could be required to fund it going forward, even 38 39 if it wasn't something that they regarded as a priority? 40 Α. Yes, it's possible. It all depends. Some of those 41 technologies are really part of, you know, standard clinical delivery, you don't always need a statewide 42 43 program to support the governance around it, and when it's 44 something that should be used at the bedside and doesn't 45 need that coordination across different districts, then 46 really, truly, it's a local district's responsibility. 47

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1 Sometimes we do feel - and the recommendation from the 2 committee can be that - a statewide program needs to be 3 implemented to support, you know, a safe and economical 4 implementation of those processes, and at other times, the 5 committee's recommendation is to recommend that it's only done under a research process, if the evidence is emerging 6 7 but not quite supporting for a full statewide 8 implementation already. 9 10 Q. If we just scroll down to 68, and we've got there the ACI redesign school, how does the course work in the 11 12 redesign school? 13 Α. Yes, so what we do in the redesign school is we've got 14 three or four cohorts of students every year, and they start at different times of the year, and then they go 15 16 through a process of monthly contacts where either they 17 receive onsite training, and it can be training about data 18 analysis, it could be training about project management, we 19 support them in their process of identifying and clearly 20 stating what is the clinical problem they want to solve. 21 And then we, through the year, through 12 months, give them 22 training so that they progress their work to a stage where they can implement and evaluate the early impacts of that 23 24 work. 25 26 The people that come to the schools are clinicians and 27 managers from the districts. Most of the teams include 28 medical, nursing, allied health, management staff as well, 29 and they come as a team and they come with a project that has been supported by the chief executive of the district 30 31 to be put to the school and when they get into the school, 32 then they work at trying to find a solution to that 33 specific problem. 34 So it's a very hands-on kind of course where they 35 36 have, at the same time, to learn new capabilities as well as deliver on an improvement project, and that's why it's 37 called the school for redesign - really, redesign clinical 38 39 care in practice. 40 41 On the fourth line there you refer to service Q. 42 improvement sciences. Can you define what that means, 43 please? 44 So there are different ways to improve care in Α. Yes. 45 the literature, in terms of implementation methods. You 46 know, there's a lot of PDSA processes, for example, that are proposed, you know, "Plan, do, study and act". 47 There's

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methods like Six Sigma that aims at, you know, making sure 1 2 you really understand the way different elements work 3 together to improve the outcomes. There is full co-design, 4 where consumers and clinicians and managers will come together, exchange on their perspective and redesign care. 5 when we feel that it's that adjustment that is not quite 6 7 right, you know.. so those are examples of improvement 8 methods that are taught in the school and are adopted by 9 different teams, depending on the problem that they're 10 working on.

12 Q. And just one more request on this. Does the ACI follow up to see that the projects that have been done 13 14 through the redesign school do actually become embedded? We do on a regular basis. We have innovation exchange 15 Α. 16 program and the digital platform that does showcase that. 17 Many of them are actually the projects that have led to 18 fully statewide implemented programs later on, so then, 19 when that happens, we've got clear evidence that they've 20 been picked up. And what we do is that we get in touch 21 with our community of practice that I talked about this 22 morning, which is the community of practice of directors of innovation, and they can reflect when a specific program is 23 still ongoing. 24 These are really the ways that we use to assess the sustainability of those programs. 25

27 THE COMMISSIONER: We will adjourn until 2 o'clock.

29 LUNCHEON ADJOURNMENT

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31 THE COMMISSIONER: Yes, thank you.

33 DR WATERHOUSE: Q. We are on 68b. So we finished just 34 before the adjournment talking about the ACI redesign 35 school. I would like to move on to the ACI innovation 36 exchange that you see at the top of the page there, or top of the screen, rather. Of the 46,790 page views, do you 37 have an understanding of how many of those have been by 38 local health districts looking for projects that they might 39 40 be able to implement? 41 Α. I don't have that information top of mind, but we

- 42 could certainly do an analysis of provenance of the
 43 various but that's not an assessment that we've made.
- 44
 45 Q. Do you know if there are particular projects that get
 46 very large numbers of page views relative to others that
 47 have been particularly popular, say?

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1 Α. Again, that's not something I personally have top of mind at the moment. What has to be said is that the 2 3 platform has been re-platformed recently, so that search 4 modalities are easier and therefore we're in the process of 5 expanding the platform at the moment. But I don't have the 6 top page being watched. 7 8 But that will help with the metrics in terms of being Q. able to measure those things? 9 10 Yeah, that's something we can do using our usual web Α. based statistics to better understand which ones are 11 12 frequently visited. 13 14 Just in that same point still, but the next sentence, Q. it refers to 275 projects that are live. What does "live" 15 16 mean? 17 Α. It means that they're current, they're on the platform and we consider them as being, you know, current examples 18 19 of innovation. Some of them have been retired through the 20 They're not innovation anymore, years, of course. 21 especially if they get rolled out across the entire system, 22 and then we add additional ones, and I think that we plan to reach almost 300 projects at the end of this month. 23 24 25 Q. And where it says 29 were published in 2023, are they 26 live projects now or is publication a different thing? They are live. 27 Α. 28 29 Q. So that's a subset of the 275? 30 Α. Yes. 31 32 If we just scroll down to paragraph 69, this is where Q. 33 you talk about innovations that have been identified in 34 response to particular policy questions or challenges the 35 system is facing. 36 Α. Yes. 37 Q. Can you give some examples of particular initiatives 38 that have come out of tackling surgical wait times? 39 40 Α. Sorry, particular programs or initiatives that have --41 42 Yes, so it says that "the ACI was asked to investigate Q. ways" --43 44 Α. Yeah. 45 46 -- so what did you come up with for tackling surgical Q. 47 wait times?

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So what we did for tackling surgical wait times is 1 Α. 2 that we first searched the literature about what were the 3 evidence based programs that we felt could impact on wait 4 And what we did is to build a comprehensive patient times. 5 pathway so that we would really take the patients' perspective to identify all of the things we can do at 6 different stages of their illness, either whilst waiting 7 8 for surgery or whilst being assessed for surgery, but where 9 we could do interventions that would help to improve the 10 pathway.

So we identified that there are things we need to do 12 13 months ahead of time when patients are first put on the 14 list to start to make them ready for surgery, and that's called our pre-habilitation programs. We've identified 15 16 that there are things we need to do in the month leading to 17 the surgery, so that at the time they come for surgery, you know, they don't have uncontrolled diabetes or another 18 chronic condition that would, you know, prevent them from 19 20 being able to receive the surgery.

But also what we did is identified programs that helped to better manage the intraoperative period, as well as the things we needed to do early in the piece so that patients can be discharged early after surgery and recover early after surgery, and that's where our early after recovery surgery program came.

29 So what we did is identify various programs that 30 either were helping to reduce the need for surgery, helping 31 to better manage the flow of surgery, and really avoid, you 32 know, cancellation, avoid things that we know would reduce 33 our capacity to tackle the surgical wait times, you know.

We wanted to have a comprehensive approach, not that every district had to do everything, because obviously in some districts the needs are more towards the pre-surgical or post-surgical, but at least we had the suite of projects and measures that we wanted them to be able to pick on and we would support the implementation, you know. So that's what we did in that particular area.

43 THE COMMISSIONER: Q. This is slightly tangential, and 44 someone can correct me if I get this wrong, but something 45 the anaesthetists have told us - and I'm paraphrasing, but 46 it's along the lines of, "We don't see patients in the 47 elective surgical list early enough to assist with things

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like assessment of how suitable they are for the surgery, 1 2 providing advice about possible lifestyle changes that 3 might mean the surgery is not ultimately needed". Is there 4 work going on in that space? 5 Α. Yes. So as part of the framework that we developed, 6 we clearly identified pre-habilitation and what we called 7 optimisation for surgery as key areas, and in optimisation 8 for surgery you've got different programs that can be 9 rolled out. Of course, one is all of the pre-habilitation, 10 behaviour change, control of risk factors, but there are also pre-surgical clinics, especially for high-risk 11 patients, that we encourage local districts to implement,. 12 13 14 Q. So what do they involve? Very often they're run by anaesthetists, because one 15 Α. 16 of the risks related to surgery is actually the general anaesthesia that's related to it, and therefore it is 17 18 important that anaesthetists assess the patient early, identify the risk factors that need to be changed, so that 19 20 at the time of surgery, you know, again, they're in a state 21 where we reduce the risk and they're more ready for 22 surgery. 23 24 So are pre-surgery clinics routine across LHDs where Q. surgery is being performed? 25 26 For specific patients that need that assessment, so Α. 27 there are criteria we can use - age, of course --28 29 Q. What does that mean, patients with chronic diseases? -- co-morbidities, and for specific surgical 30 Α. 31 procedures it's more warranted than others. We wouldn't 32 recommend that it's done for every single patient, because 33 this is --34 35 Q. It may not be needed. 36 -- a use of resourcing that is rare, and therefore we Α. need to target, for the patients that are at risk, needs to 37 be assessed for that risk, so that we optimise them before 38 39 surgery. 40 41 Q. Just slightly related to that, in 69g you talk about introducing same-day joint replacement surgery. 42 Is that routine? Say it's hip or knee, is it routine now that 43 44 you're in and out the same day? 45 Α. In some centres --46 Q. I'll fill this in. When we had a visit to the 47

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North Sydney LHD at Royal North Shore Hospital, they 1 2 certainly had a program for people to have joint 3 replacement surgery and be discharged that night, that 4 they'd had the surgery. Is that routine across the state 5 or not? 6 What I would say is that in some districts, it's Α. routine to assess if patients need to be in their same-day 7 8 surgery program. 9 10 Q. Sure. Okay? So all the patients are assessed for it, and 11 Α. 12 then some patients do not take that track because of 13 certain risk factors. Do we have a standard joint 14 replacement surgery in all of the districts --15 16 There's a type of patient? There's a type of patient Q. 17 it might be ideal for. 18 -- we're not there yet. So there are some districts Α. 19 where we still continue to support them to implement their 20 same-day joint surgery program. It doesn't mean that they 21 don't have any patients doing day surgery, but what we want 22 is a more systematic approach where patients are really 23 assessed for it so that we increase the proportion of 24 patients that go through those same-day surgeries, because we know they're associated with excellent outcomes, and you 25 26 reduce the impact on the system, and we also know that for 27 many procedures they're actually associated with less 28 complication, because patients mobilise more quickly 29 afterwards and all of that is part of good recovery after surgery. So it's not all implemented across the state, 30 31 but --32 33 Q. Well, it's not suitable for every person that's having a joint replacement for a start. 34 It's not suitable for everyone. 35 Α. 36 37 Q. Secondly, there might be a complication that means you've got to stay in the hospital. 38 Yes, and you need to consider the patient's personal 39 Α. 40 circumstances as well, because same-day surgery works under 41 the assumption that people can go back home, have the support that's required and not have to travel too long to 42 43 come back if, for whatever reason, they've got an infection 44 or a bleeding or another complication. 45 46 So there has to be some variation and some adaptation 47 to the patients' needs and specific circumstances, but we

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1 do want more hospitals to routinely offer that program as 2 part of their surgical program. 3 4 Q. For the people it's appropriate for? 5 Α. Yeah. And we've got models of care to guide surgical units in identifying those patients based on the evidence. 6 7 8 THE COMMISSIONER: Thank you. 9 10 DR WATERHOUSE: Q. Just taking that one as an example, if a district has actually set up a program whereby they're 11 12 doing 24-hour joint replacement surgery - ie, discharge within 24 hours but not necessarily the night of the 13 14 surgery - is there an expectation that they will stop doing that and transition to the same-day surgery program that's 15 16 been developed by ACI or have they the latitude to continue 17 doing what they - what works well for them? 18 They have the latitude to continue to do what works Α. 19 well for them, because again, it may be that they really 20 need to make sure that the patient is stabilised overnight 21 before they ask them to travel significantly across the 22 state - New South Wales is a big state, of course. 23 24 It may be that in terms of their capacity to quickly 25 readmit or have advanced access clinics, et cetera, they're not at that stage yet and therefore we need to respect that 26 27 it's a gradual process. But what we do is to really help 28 them to enhance their same-day or next-day surgery. That's 29 part of the program. Already we think that this will provide a lot of benefits for patients and then local 30 31 districts have room to adapt it to their specific clinical 32 context. 33 34 And some examples also, perhaps, in relation to the Q. management of end of life palliative care, are there ways 35 36 in which the ACI has investigated initiatives and developed 37 things for that? Yes. 38 Α. We do have a palliative care network, it works 39 with the system about, you know, enhancing the models of 40 care, et cetera. And we also have increasingly what we 41 call supportive care models where, you know, when patients 42 are in specific clinical situations where they may - we may 43 think they need an intervention but that intervention may 44 actually have an impact on their quality of life towards 45 the end of life, we also increasingly have models that help 46 to support them without necessarily needing surgery or the active treatment so that they're comfortable. 47 That's part

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1 of a broad kind of perspective on palliative care, which is 2 something that we've tried to promote in various clinical 3 areas - more supportive care, leading to palliative care 4 afterwards. 5 If we can just scroll down to 70, and this is where Q. 6 7 you talk about clinical engagement, now, you can see there's a long list there of all of the ACI's networks, 8 9 task forces and institutes, and it goes over the page. I'm 10 just wondering, there seems to be some similarities. So if you look at a, which is "Aboriginal Chronic Conditions", 11 and then just over the page, you have "Chronic Care for 12 Aboriginal People" at h. 13 14 Α. Yes. 15 16 Q. Now, is there potential for sort of overlap or 17 duplication of what they're doing by having groups working 18 on similar areas? 19 Α. So one is a team that manages our program as an 20 Aboriginal health program and helps all of the networks 21 across the agency to consider Aboriginal health issues and 22 in the appropriate way. The other is a network of clinicians and local managers that work in that area. 23 So 24 the reality is that they are complementary. It's not in every clinical area where we've got a team and then 25 26 a specific network being progressed for Aboriginal health. 27 This is what, you know, the community wanted. 28 29 We are currently working - you know, we've got a new director of Aboriginal health at the ACI and we're going to 30 revise our activities in Aboriginal health, and those, you 31 32 know, teams and network will be part of - will be part of 33 that stream of Aboriginal health, led now by our new 34 director of Aboriginal health. 35 36 So given the very large number of groups that you Q. have, how does the ACI, as an overarching entity, ensure 37 that you minimise the overlap and duplication and also that 38 you minimise gaps where one network might assume that 39 40 another network has a particular body of work covered? 41 Α. Yeah, so the first thing that we did to ensure 42 reduction of duplication and increase in synergies and 43 coordination is five years ago we restructured the 44 organisation and we created clinical streams. Those 45 streams are pulling together clinical networks that have 46 commonalities in terms of their patients or the type of interventions that they want to do or the type of clinical 47

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1 sector that is involved. 2 3 That enables us, for example, to manage in a more 4 integrated way all of the trauma, pain, rehabilitation 5 related networks under a single stream. It doesn't mean that everything then gets subsumed into a single kind of 6 7 big network. We still have those different clinical 8 engagement programs, but now they relate to a clinical area 9 where we ask them to plan in a more integrated way. We ask 10 them to manage some programs collectively and across the networks instead of just the network specific work that 11 12 they have to do. 13 14 So in 2018, what we did is to restructure so that we would have eight clinical streams where the 42 clinical 15 16 networks are embedded, and then we started to engage with 17 them at the stream level in addition to, at times, having 18 relationship with the networks at the clinical level. 19 20 THE COMMISSIONER: Q. Sorry to interrupt, this is not 21 a criticism of you or the people that helped draft your 22 statement, but just so it's in the evidence, there's a few terms in your statement that - this will be my fault -23 24 I don't understand, and if they're not in the evidence 25 I can't make it up or guess. 26 Α. Yes. 27 28 In 69f there's a reference to ACI being asked to Q. 29 investigate ways to deliver CAR-T cell therapies. I don't 30 know how important this is. Someone has explained this to 31 me once and, shamefully, I have forgotten. I know CAR-T 32 cells are, I think, white blood cells and some of them are 33 T cells and they're taken out of the patient and they're 34 modified and then they're put back in and then I have forgotten what happens after that. They help your immune 35 36 system attack a cancer or --Yes, exactly. And my apologies if there are some 37 Α. terms in the statement --38 39 40 Q. No, no, don't worry. 41 Α. -- but we can certainly correct that. 42 43 Was there anything you would add to the brief Q. 44 description I just gave - the thesis about CAR-T cell 45 therapies? 46 Yes, so CAR-T cells are modified T cells. Α. The T cells 47 are the cells that we have in our body that defend

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ourselves against a lot of things, infections but also 1 2 cancer. You know, it's a little known fact but our immune 3 system --4 5 Q. But is this precision medicine, is this to modify them 6 to attack the actual cancer you've got? 7 And what happens is that our T cells Α. It is. It is. 8 are constantly getting rid of cells that are abnormal in 9 our body, but when a cell gets to be abnormal but cannot be 10 recognised by our immune system, it continues to grow without being attacked by our system, and that's one way 11 12 cancer grows. 13 14 When we modify T cells, we modify them so that they identify the cancer cells and then they can attack it, and 15 16 that's why it is called a chimeric cell. We've mentioned 17 it there because we do have a blood and marrow transplant 18 network that works on all of the novel therapies around 19 cancer, you know, all of the blood and the marrow cancers, 20 and they've been the ones that have supported the system -21 by this I mean specific hospitals and districts - to 22 actually build their capability to deliver CAR-T cells but also work again with regulators and other bodies so that we 23 can integrate those technologies locally. 24 25 When you used the term "network", that's involving, 26 Q. 27 what, hospitals and --28 Yes, in this case, all of the blood and marrow units Α. 29 across the state are part of our network. It's one type of network that we have when the entire system is in, you 30 31 know, and therefore they all work together. 32 33 Q. So that's research as well as hospitals and --34 That's clinical units within hospitals across the Α. 35 state, you know, all of the blood and marrow are part of 36 that service. 37 38 THE COMMISSIONER: Thank you. Sorry. 39 40 DR WATERHOUSE: Q. Obviously that's a very specific 41 niche area where you've got all of those group involved. As a general rule, though, how does ACI ensure that the 42 43 networks actually represent the breadth of different types 44 of clinical practice? 45 Α. Yes, so I think your question hints at the fact that 46 it's difficult to cover all of the clinical areas all the 47 You know, we know that health is a very diverse time.

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1 group, and the ACI does not have a clinical network for 2 every single clinical area.

4 Some networks do, you know, come on board for a while, 5 and then after a while, if we see that, you know, there's no innovation emerging, there's no real significant 6 7 transformation to make, sometimes what we ask them is to be 8 subsumed into another network. So we have merged networks 9 together to create space for other networks as well, when 10 Some networks have been stopped, again, if the time came. we feel that there is no critical need for those networks 11 12 qoing forward.

14 Of course, there are some networks that have been there since the inception of the ACI, I mean, trauma, 15 16 emergency care, surgery, anaesthesia, these are really big 17 clinical areas where there's always something to do in 18 terms of refining care or implementing new models. Whilst 19 for others, for example, we've got a series of networks now 20 in the child, maternity and paediatrics space, where we 21 know that there's emerging innovation, and what we've done 22 is to create a new stream so that those networks could come 23 together and start new work that we were not doing in the 24 past at the ACI.

26 So as much as possible, we're trying to be flexible and agile and dynamic in how our networks are managed. 27 28 Some of our networks have gone from being a network to 29 being a reference group, and I know it may sound technical, but basically what it means is that instead of having an 30 31 ongoing plan or, you know, series of activities that we're 32 working on with the system, sometimes we need to ask 33 clinicians to establish a group that can be there for us if 34 we need advice, if we need to provide advice to somebody 35 else, but more as a reference group that we consult on 36 a more ad hoc perspective, and we limit the resources that we have, which are limited, of course, for the ongoing work 37 for the networks that have, you know, a plan of activities 38 over many years. That's the way we try to manage that 39 40 breadth and depth because, you know, we know it's difficult 41 to mobilise such a big system.

Q. And the networks are invitation only effectively; is
that right? People are invited to join the networks,
whereas, is it correct that the communities of practice are
more groups or individuals, rather, that opt in so that
they can be kept informed of the work of the network?

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There's no difference between the networks and the 1 Α. 2 communities of practice in terms of how we recruit. People 3 that want to volunteer for a network can contact the 4 network and sometimes we proactively seek new members. At 5 other times, you know, new members come in the network because they get to know about it, they approach us and we 6 7 integrate them into the network.

9 Communities of practice just tend to be broader in 10 terms of numbers of clinicians involved, and their focus is 11 to share ideas together, not so much to come with an action 12 plan for the organisation to support. And that's really 13 the big difference between the two.

15 So a community of practice is really, you know - our 16 role is to facilitate them coming together and then, by 17 getting together, they exchange, they share, that's it. 18 Networks, we expect that they will propose things to do and 19 we give them support from an ACI perspective to achieve 20 those projects that they want to progress.

22 If we look at 71a, which is the surgical care network, Q. now, that one is by invitation only, according to the fifth 23 24 line - fourth or fifth line - and you've got the bigger community of practice sort of underpinning that or working 25 26 Given that it's all directors of surgery for with that. 27 the districts, if all of those directors were to come from 28 the bigger hospitals in those districts, the big teaching 29 hospitals, et cetera, how do you ensure that you've reflected the range of levels of clinical practice and what 30 31 people are doing in the districts, if you have got the one 32 person from all of the teaching hospitals? 33 Α. It's not one person from each of the teaching 34 hospitals, it's more based on the local districts' So we're talking about the directors of 35 representation. 36 surgeries, they have to be nominated by their chief 37 executives, and there's a representative from all of the districts. 38

40 So we don't have an overrepresentation of metropolitan 41 hospitals, given that process.

It's surgeons but it's also directors of anaesthesia,
they are involved as well, and we've got also nurse
managers in surgery as part of the surgical care network,
and it's representative because we do have someone from
each of the local districts and, in return, we ask them,

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when they go back to the surgical committees or, you know, 1 2 divisions of surgeries that they lead at the district 3 level, to convey back the information that we lead within 4 the surgical care network.

The surgical care network used to be called the surgical task force or the SST - yeah. We've transformed it as a network to really reflect on its ongoing role in 8 9 quality improvement and innovation in surgery.

At 73, you talk about consumer engagement. 11 Q. Does the ACI have a role in educating the community about new models 12 of care that might challenge longstanding views, for 13 14 example, where care is delivered or by whom? So we do that not just through our consumers, 15 Α. Yes. 16 because obviously 128 consumers is quite a big group of 17 consumers involved in our work, but at the same time, it's 18 not a lot of people in terms of disseminating back to 19 various communities what the new models are about. So the 20 128 consumers are really part of our networks, they are 21 co-designing with our clinicians, you know, the models of 22 care or the tool kits or the various products that we 23 create. 24

25 But then what we do is that in many areas where we 26 feel that there's a need to provide education and advice to 27 patients and communities, then we produce these documents, 28 make them available, so that clinicians can then use those 29 documents in their interactions with patients, or local managers can at times also use those kinds of tools if they 30 31 have got information sessions with community, for example. 32 And we've done that in some of the, you know, bigger 33 statewide implementation programs that we've had, ensuring 34 that we had some patients and community-facing material available as well. But we don't do it directly. 35 You know. 36 it's not the ACI that goes into a community, talks to, you know, town hall meetings. We rely on the local clinical 37 teams and the local districts' managerial teams to do that, 38 our role is to give them the tools so that they can do it 39 40 correctly.

42 What about if it was something like an expansion of Q. 43 scope of practice that was actually being rolled out 44 statewide - say, for example, an increase in the role for 45 pharmacists? Would ACI then have a role in trying to 46 educate the community or create materials for that? So we do work on media relations when required, which 47 Α.

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1 means that we do use either formal print media or 2 television and radio to talk about some of our programs, 3 and we also use social media as a way to connect. So in 4 this way, when we feel that, you know, there's something 5 new and it needs to be shared more broadly to inform people that this new program is available, we would use those 6 7 routes, in addition to the more clinically based kind of 8 work that we do through the information sheets and other 9 material that we produce. But we don't do it for every 10 I think it really depends if such a broad kind of program. communication is required. 11

13 Q. If we go now to paragraph 75, where you discuss 14 interstate collaborations - so you've identified there just a couple on that page, the paediatric improvement 15 16 collaborative and the national surgical quality improvement 17 program, or NSQIP. Have these resulted in changes being 18 embedded into practice across New South Wales? 19 Absolutely. So if we look at the paediatric Α. Yes. 20 improvement collaborative, for example, it really enabled 21 us to avoid duplicating standards of care and models of 22 care that were already produced by one of the lead institutions in paediatrics in the country, which is the 23 24 Royal Children's Hospital Melbourne.

26 Clinicians told us that the guidelines that they used 27 come from the Royal Children's Hospital Melbourne. So what 28 we did is we collaborated with Queensland, Victoria and 29 New South Wales to structure a joint approach where we would have one single way to produce those clinical guides 30 31 and then we would promote their adoptions in the three 32 states, and in this way, we can mobilise, you know, our 33 limited funding to other clinical areas.

We know that those guidelines are used by the paediatric community, they've confirmed that, and of course, we've mobilised a group of clinical leads from New South Wales to be part of the paediatric improvement collaborative to make sure that the work was reflective also of some of the needs that we had in terms of updates of standards.

In terms of the national surgical quality improvement program, it's a program that is different in nature from the paediatric improvement program, and that's why we've put it in the statement. What we do with the NSQIP program is we support clinicians to measure their practice, we

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1 extract data from the electronic records, we ask patients 2 to reflect on outcomes. 3 4 What we have is a collaborative of surgeons and 5 anaesthetists and other clinicians involved in surgery and 6 they look at the results, the variation. They receive 7 a benchmark compared to not just the participating sites in 8 New South Wales but also participating sites in the US and 9 in Canada, so that they can actually compare their practice 10 with an international benchmark and then identify where 11 they need to improve. 12 13 For example, there have been programs aiming at 14 improving urinary tract infections following surgery and clinicians have worked together to identify what are the 15 16 things they can do, even though we have to put catheters in place, to avoid the risk of UTIs following surgery, and 17 18 that includes, you know, early mobilisation and extraction 19 of the catheters. So it's a good example of a way to 20 mobilise clinicians to look at data and self-identify 21 things that they can do locally to improve on some of those 22 outcomes. 23 24 Q. Has there been any evaluation of the patient outcomes whether there have been actual demonstrable improvements 25 26 with either of those? 27 There has been an evaluation of NSQIP as a program, Α. 28 but the beauty of the program is that because it is 29 a program that monitors and tracks outcomes, we can 30 actually see if we're improving as part of that program, and in many areas we have hospitals that have seen ongoing 31 32 improvements in some of the complications and in the 33 outcomes of care. 34 It's not implemented across the entire state, it's one 35 of those programs that, you know, we're gradually 36 integrating new sites, and it's one of the programs where 37 we do have an interstate collaboration as well with 38 Queensland, for example, collaborating with us on that 39 40 collaborative. 41 If we go to paragraph 82, and this concerns the NSW 42 Q. Telestroke Service that you spoke about before, and you've 43 44 provided more detail there, I would be interested to know 45 what are some of the challenges that ACI encountered when 46 implementing the Telestroke service? 47 Α. I mean, there were shared challenges, not just

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challenges that the ACI faced. We're talking about
a program where we had to align clinical change, you know,
behaviour change from clinicians, but also technology
enhancement, and we needed to ensure that we found the
right communication and clinical management processes to
make it work.

8 So in some areas, we did struggle to uplift the 9 technology to make sure that we would have, you know, good 10 images to transfer to the hubs so that they would make the right decision for patients. In some areas we also faced 11 12 challenges that related to the workforce available and their coverage of, you know, 24 hours versus only a part of 13 14 the day, and therefore we had to work with the different districts to, at times, pause implementation, make sure 15 16 that we reassessed things and we consolidate what needed to be consolidated, and then get back to implementation 17 18 afterwards.

- 20 Q. And I see there in c that the Menzies Centre is 21 currently undertaking an economic evaluation. Will that 22 take into account allocative efficiency as well as 23 technical efficiency?
- A. I think so. The evaluation will compare standard
 practice versus this one, and I do have to say that the
 economic appraisal that we did ahead of time, before
 deciding to implement Telestroke across the state, did such
 a comparison as well.
- THE COMMISSIONER: Q. What's actually involved in an
 economic evaluation of a new model of care like that?
 A. So what you have to consider is both the inputs, so
 all of the costs related to the costs of the technology,
 the cost of the workforce.
- 36 Q. Setting them, right, yes.

But also the cost for patients, you know, in terms of 37 Α. travelling or not, in terms of having to spend a night in 38 hotels or anything. Then you look at the benefits both 39 40 from a direct economic benefits, and that could be cost 41 avoided if you reduce length of stay, for example, or if you don't have to transport patients - ambulance costs, you 42 know - but also the transfer of health outcomes into 43 44 economic measures. Because we know, you know, from the 45 economic science, how to translate what would be the 46 economic impact of people not having disability, for example, you know, in terms of their economic productivity. 47

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1 2 Q. How long they're out of work, that sort of thing? 3 How long they're out of work, and if they can return Α. 4 to work, and also, in some of those economic evaluations, 5 we can put a cost, a dollar figure on preventing illness and death. 6 7 8 So all of that is part of this evaluation that is Q. 9 taking place? 10 Α. Yes. 11 12 Do you know when Menzies are meant to finish that Q. 13 work? I think that the draft has been circulated. 14 Α. I was 15 hoping that we could release the report incessantly [sic]. 16 17 Q. So it's imminent, is that the answer? It's imminent but I'm not directly involved in that 18 Α. 19 process. 20 21 Q. Leaving aside - I suppose it's related to it, but has 22 there been a health outcomes evaluation? Of Telestroke? 23 Α. 24 25 Q. Yes. 26 Well, I think you have to understand that for Α. 27 Telestroke, what we're doing is that we're expanding 28 coverage for patients of therapies that they would not have 29 had, so the impact is quite --30 31 Q. I mean, it's part of it. 32 Α. It's quite immediate. 33 34 Q. It's early intervention, isn't it? Absolutely. And we already know the number of 35 Α. 36 patients that have received a thrombolysis, you know, and 37 we can compare it --38 In circumstances where they may not have without 39 Q. 40 Telestroke? 41 Α. They may not have in the past because of time. 42 Because stroke is a time-critical condition, and if you're 43 outside of the window where some therapies are known to be 44 effective, then the patient won't access them. 45 The damage is already done? 46 Q. 47 Α. Yes. And therefore, we can see the benefit of

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1 Telestroke already through that early assessment. 2 3 THE COMMISSIONER: Thank you. 4 5 DR WATERHOUSE: Q. Just to clarify, in terms of the economic analysis, so you had people internally who were 6 able to do that initial evaluation and now it's been 7 8 referred out to Menzies? 9 Α. Yes, yes. 10 So you've got the right skill set in-house for that 11 Q. 12 initial phase; is that correct? 13 Α. So we tend to concentrate our evaluation team's focus on assessing if a program should be established or not, you 14 15 know, what are the expected benefits, does it make sense to 16 invest resources in doing it? We want our evaluation teams 17 to focus on what we call formative evaluation, which is 18 about testing things in the middle, you know, of 19 implementation, do we need to change things, do we need to 20 adjust certain parts of the program? But when we need to 21 report on the effectiveness of our work, it's good to have 22 an independent organisation running the evaluation, with 23 our support, because sometimes we've got the data, you 24 know, that they need, but at least they do an independent 25 assessment and we feel that this is stronger in terms of 26 providing evidence about the effectiveness of the program. 27 28 And the skill set of those people that do that - the Q. 29 internal people - are they health economists or what is their sort of background to be able to do the evaluation? 30 31 Yeah, we've got people that are specialists in the Α. 32 designs of evaluations. We've got experts in economy - you 33 know, economists that can especially support the decisions 34 that relate to modelling. But increasingly we also have 35 people within our team that have expertise in modelling, in 36 predictions, because that's an area we want to emphasise. We want to make sure that before requesting funds to invest 37 in a statewide implementation program, we've done an 38 assessment of the potential impact not just on the specific 39 40 area or intervention we want to do, but potentially on the 41 flow of clinical care at the local level, and that's where economic modelling and predictive modelling is a skill that 42 43 will be really important going forward for our team. 44 45 Q. If we go now to paragraph 85, you mentioned two 46 intensive care models there. One is the intensive care service model and the other is an exit block project. 47 What

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1 was the ACI's actual role in those two projects? 2 Α. So for the intensive care service model, we were 3 charged in developing a model of care, what it would look 4 like in level 4 ICUs, and then we had to facilitate 5 a community of practice where level 4 ICUs would come together, look at the model of care, identify the things 6 that they had to do to lift some of the services and really 7 8 make sure that they would meet the requirement of a level 9 4 ICU. 10 And a level 4 ICU sits below level 5 and level 6, and 11 those higher levels really mean that they can actually care 12 for more complex patients. But level 4 are important 13 14 because they're really there in regional settings, you know, to provide a big part of the intensive care. 15 So this 16 was a quality improvement program. We run it as 17 a collaborative program and ACI was really, again, the catalyst of those different teams coming together, 18 19 providing them with the tools to improve, but then the 20 change happened locally through the leadership of those 21 local teams. 22 In terms of the ICU exit block project, there was 23 24 a lot of analytics that was involved in that project, really trying to identify what were the reasons why 25 26 patients were at times delayed from being discharged from 27 the ICU to the ward, when they were well enough to go on 28 So we're talking about patients that technically the ward. are discharged from the ICU but don't physically have a bed 29 to go on a ward, and the issue - and the reason why it is 30 31 called an exit block, is that it takes an ICU bed that we 32 need to use for somebody else. 33 34 This is really a critical project to ensure that we've got a good flow of patients across the system. 35 What the 36 ACI did in that work is to support the ministry whole of health team, which really is the one managing the flow of 37 patients across the system, to identify what were the 38 blockages and work with local teams to try to get rid of 39 40 those blockages. It could be lack of transmission of 41 information, it could be about the way the ward's bed availability is managed, you know, depending upon the local 42 circumstances, then we provided the support to the whole of 43 44 health team to support the local teams to change. This was 45 a collaborative work. 46 You say there that it was interrupted by the pandemic. 47 Q. .26/02/2024 (10) 1099 JF LEVESQUE (Dr Waterhouse)

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1 Given we're now four years into the pandemic, is there 2 a time frame in which it will be re-established? 3 That's something that I would have to ask Intensive Α. 4 Care NSW. I think that they're probably getting ready both 5 in terms of readiness with the local teams to re-engage with the project, and when the local ICU teams feel that, 6 7 you know, they've got some room and energy to be able to 8 roll out such a program, they'll be re-engaged. It's 9 really important for us to adjust to the receptivity for 10 change at the local level as well, given the pressures that clinicians have every day in delivering care. 11 12 13 Q. Were there measurable outcomes from that project just 14 from where it got to before the pandemic? Yes, I don't have all of the findings in my head but 15 Α. 16 in some of the ICUs where they had a sustained, you know, 17 effort, they were really able to reduce the amount of hours that, you know, or minutes, even, that patients were 18 19 delayed before they could be discharged. But I wouldn't be 20 able to reflect on the outcomes across the state. 21 22 Q. And in relation to the service model, did it actually 23 demonstrate better access and reduction in variation? 24 Α. I think that the outcomes are more related to the 25 quality of care provided, the consistency of care provided 26 in the level 4 units. Of course, for patients, it means 27 that they access the right level of critical care, but the 28 outcomes that we've been measuring through audits and, you 29 know, reflective practice with those units, were more about the increase in resourcing and quality of care provided. 30 31 32 THE COMMISSIONER: Q. Tell me if you don't know, but 33 this sort of project, ICU exit block project, is probably 34 still being interrupted by the pandemic, is it? I would say that there's probably a lot of intensive 35 Α. 36 care units that wouldn't say they are ready to tackle a quality improvement program at the moment, but again, 37 that's something that I would have to refer to my clinical 38 network to gather data about. 39 40 41 DR WATERHOUSE: Q. If we just scroll down to the next subparagraph, c, the leading better value care program, can 42 43 you tell us a little bit about that? 44 Yes. So that program was a program that we rolled out Α. 45 across the state in specific clinical areas such as 46 osteoporotic refracture, chronic obstructive pulmonary disease, bronchiolitis, chronic wounds, renal supportive 47

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1 care, chronic heart failure, hip fracture and diabetes. 2 3 The goal of the program was really to implement, 4 across the state, models that were different from what was 5 the standard of care before. So, for example, in 6 osteoporotic fracture, we know that refracture prevention 7 clinics are successful at preventing people that come to 8 hospital with a hip or a fracture of another bone, to 9 refracture afterwards, and that's through identification of 10 their risk factors, providing them with the right medication, the right advice about preventing falls 11 12 afterwards, and the osteoporotic fracture program was 13 really about increasing the volume of patients that can 14 actually access that assessment for their risk of 15 fractures. 16 17 If we look at renal supportive care, the goal was to 18 implement clinics that provide what we called supportive 19 renal care instead of dialysis. We know from the 20 literature that for many patients, dialysis will not be 21 associated with better outcomes for patients, and 22 therefore, our goal was to really push across the system for more units to adopt a supportive approach and reduce 23 24 the number of patients on dialysis, or at least enable us to not have to further invest in services where we had 25 26 a big proportion of patients that we knew would be better 27 treated by that supportive care. And that supportive care 28 included, you know, a broad range of providers, allied 29 health providers, so that patients are better able to take their medication, remain active, control their symptoms, 30 31 et cetera. 32 33 Q. Is this a statewide program? 34 It's a statewide program and for most of the Α. 35 conditions where we started the program, we've got clinics 36 in all of the local health districts. There remain some 37 clinics or hospitals that have not fully implemented the program, and some of our networks are continuing the work, 38 39 even though, from a statewide perspective, you know, the 40 entire program has finished recently. 41 42 It has actually finished. But it is a value based Q. 43 health care program? 44 It is part of what we call value based health care, Α. 45 yes. 46 Would it be the biggest body of work rolled out so 47 Q. .26/02/2024 (10) JF LEVESQUE (Dr Waterhouse)

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far in relation to value based health care? 1 2 Certainly from an ACI perspective it was the biggest Α. 3 investment, we had many clinical networks dedicating all of 4 their time supporting local districts to implement those 5 clinics and we know that, at the local level, many of the innovation and improvement teams were also dedicated to 6 7 that one. It was a significant investment for the state in 8 terms of a focused kind of program of work around value. 9 10 Q. In terms of the investment, was this something that districts were funded to roll out or did they need to do it 11 12 within their existing resources? 13 Α. It was a mixed approach. So there was some funding 14 initially given to districts to start the process and being 15 able to have support on the ground. ACI continued to 16 support the districts without asking for any resources 17 throughout the five or six years that in many of those 18 clinical areas the program went for. At some point, 19 districts had to transfer it into a "business as usual". 20 because this was really about replacing a previous way to 21 deliver care into another one that was associated with as 22 good, if not better, outcomes for patients, at times at a lower cost. So that's how we, you know, supported the 23 24 embeddedness of the program as part of the BAU afterwards. 25 26 Let's go now to paragraph 87. You have referred there Q. 27 to the National Health Reform Agreement and to trialling 28 new and innovative approaches to public hospital funding. 29 Then you say: 30 31 To date [New South Wales] is the only 32 jurisdiction to have explored funding for 33 trials through these mechanisms ... 34 Can you give us some examples of successes that New South 35 36 Wales has had in that regard? 37 Α. So I think the example I will give is probably related to collaborative commissioning, which is really where we 38 collaborate with primary health networks in identifying 39 40 needs that are present at the local level, and we need to 41 combine funding available from the state and funding 42 available from the Commonwealth to ensure that we, you 43 know, commission or purchase those services for the 44 population. You know, it's the type of services where, if it were to be provided in hospital, it wouldn't be the 45 46 right place, but general practice is not necessarily the right place either for it. So that's one area where 47

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1 New South Wales has been especially active, working with 2 the groups of primary health networks at identifying those 3 areas where we could, you know, to meet the local demand, 4 purchase something in a joint way. 5 THE COMMISSIONER: Sorry, so if it's a service that 6 Q. 7 is not necessarily appropriate for a hospital or for a GP, 8 it's, what, some sort of community clinic or - what are you 9 talking about? 10 It could be a community clinics; it could be services Α. to support people at home; it could be outreach in aged 11 care facilities. You know, there's different types of work 12 that would fall under that space, you know, which is 13 14 between hospital and between community services or GP 15 services. 16 And please don't think this is a criticism, it's not, 17 Q. but when you talk about this trial being a collaborative 18 19 approach, shouldn't the Commonwealth, the state and the 20 primary health networks and the LHD all be talking to each 21 other to collaborate anyway for these sorts of - what's 22 different about what you're talking about as a trial? How 23 is it specifically set up? 24 It's not so much a trial as we need the establishment Α. 25 much a more systematic way to bring those parties together. 26 27 So it's creating a network of people that talk Q. 28 together? 29 Α. And we do have a joint group in New South Wales where 30 all of the PHNs, you know - sorry, not all the PHNs, but 31 the PHNs are represented as well as other parties from NSW 32 Health, to proactively look at what is the next thing we 33 need to do to make the system work all together. Obviously 34 the separation of funding between state funding and 35 Commonwealth funding at times --36 Q. Makes it difficult? 37 -- can create issues, and therefore establishing that 38 Α. platform was really important to make it work as one 39 40 system. 41 42 And so if there's an idea about something that emerges Q. from it, then there's a discussion about who funds it? 43 44 Α. Yes. 45 46 What percentage, those sorts of things? Q. 47 Α. Yes. And for some of the programs that we've rolled

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out, such as Telestroke, there was a Commonwealth 1 2 contribution because we could clearly see that this was 3 a new way to deliver care that would benefit, you know, 4 general practitioners working in emergency departments, 5 et cetera, in some of those remote communities, to improve 6 care closer to the community. 7 8 THE COMMISSIONER: Thank you. 9 10 DR WATERHOUSE: Q. Has New South Wales put forward proposals for initiatives that have been refused under this 11 12 program? 13 Α. I wouldn't be able to answer that. I don't have an 14 example that comes to my mind. 15 16 THE COMMISSIONER: "Not supported", I think, not 17 "refused". 18 "Not supported", yes. 19 DR WATERHOUSE: 20 21 THE COMMISSIONER: Maybe it's the same thing in the end. 22 Could we go to paragraph 94, please. 23 DR WATERHOUSE: Q. 24 So you say there: 25 26 Current arrangements are effective in supporting innovations and models of care 27 28 but they have not always been fully 29 integrated and maximised. 30 31 What do you mean by this? 32 There are some programs that at times we're not able Α. 33 to scale, even though we think that there's, you know, 34 a promising model emerging. And of course, we keep our eyes on that and, you know, we come back at a later stage 35 36 or another financial year to try to progress some of those models as well. And I think it's fair enough to say that 37 no healthcare system can tackle all of the innovative work 38 39 that needs to happen in such a complex system. But I think 40 what we would like is to be able to more proactively plan 41 what are the things that we would like to start rolling out in two or three years, and maybe being able to be supported 42 43 on a longer-term kind of approach to innovation, because we 44 know it takes time to demonstrate that something works, but 45 it takes resources also to evaluate appropriately, progress 46 a pilot towards a spread test, where we try to reproduce it somewhere else, and by not having a clear forecast of the 47

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funding available, then it reduces, at times, our capacity 1 2 to fully commit to a pipeline approach and being ensured 3 that if this is successful, we would be able to scale it 4 And that's what we mean by the consistency of funding. up. 5 It's not just the amount of funding, I think, that's 6 important here, it's also the time frame to really truly 7 8 enable organisations like ours but also the local districts 9 to fully implement that scale, and sometimes it's longer 10 than the usual three or four years that we have as part of specific programs to really fully roll things out at scale. 11 12 13 Q. Is it sometimes, do you believe, that the programs 14 have not been fully integrated and maximised because the districts bear the cost and responsibility for implementing 15 16 them and they don't necessarily rate it as a priority in 17 their population? 18 Sometimes we can see that there's variable adoption of Α. 19 some of those, and of course - of course - at times we are 20 told that there are financial implications for local 21 districts in adopting some of those new models, either 22 because of their impacts on activity based funding or any other activities. When this happens, we try to work with 23 24 them to identify what are the things we can do to reduce those barriers and again fully support their adoption of 25 26 those new models. 27 28 Now, you have summarised the approach that you're Q. taking currently or moving towards in that sentence. 29 The third sentence says: 30 31 32 The system does not have an innovation fund 33 to scale new models and a strong mechanism 34 to embed innovations that have been proven 35 to be good value into business as usual. 36 Q. 37 THE COMMISSIONER: That's the New South Wales system you're talking about there, doesn't have the funds? 38 39 Α. Yes. 40 41 THE COMMISSIONER: Sorry, go on. 42 DR WATERHOUSE: 43 Q. If an innovation has been proven to 44 be good value, as it says there, wouldn't there be an 45 incentive to embed it anyway, even if there isn't 46 a dedicated innovation fund to scale it? I think it's about the challenge that relates to 47 Α.

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implementing at scale sometimes. Implementation is not
a very short-term kind of exercise, because, you know,
clinical settings are made of clinicians that have worked
in the system for 30 years as well as clinicians that have
worked in the system for one year, and the challenges in
terms of supporting their adoption of a new way to work are
not the same.

9 In addition, healthcare systems have to integrate 10 innovation in a way that preserves safety. That really means that we need at times to run in parallel an 11 innovation and an improvement work with a business as usual 12 That, at times, means that 13 consistency kind of approach. 14 additional funding is required to push in a significant way and really ensure that we transform care before we 15 16 disinvest in the previous way to deliver care, and 17 consistency of funding through multiple years, and for some programs, I can say that it took, you know, 10 years to 18 really truly achieve change at scale. We can see that the 19 20 programs are going longer than sometimes the funding that 21 we receive.

23 So the statement around the innovation fund is 24 a statement - you know, this is the current fact. It's one 25 thing that we could explore to ensure a more consistent 26 source of funding on a longer perspective as well, given 27 what we've learned from other jurisdictions.

THE COMMISSIONER: Q. The alternative for funding is
through the route described in paragraph 87 of your
statement, through the agreement?

A. For paragraph 87, it's really about the translation into business as usual afterwards. You know, we need to ensure that the way hospitals and clinicians are reimbursed for their activities, at times, doesn't just rely on activity based funding but, instead, can fund care from a blended perspective.

Q. 87, in part, involves IHACPA getting involved; is that
right?
A. And we don't - we don't want a new model.

43 Q. Sorry, if you agree, say yes.

44 A. It could.

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46 Q. If you don't, please feel free to say no?
47 A. It could involve that national body, yes. But what we

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1 don't want is for a new model not to be adopted because 2 implementing it would reduce the activity that is actually 3 the way to generate reimbursement in health care. That's 4 a well-known issue around the world, and therefore it's 5 something we need to address through those negotiations 6 with the Commonwealth and the health reform agenda. 7 8 Can I just also ask you - you touched on this, and Q. Dr Waterhouse did, too - I'm sorry, my brain is not keeping 9 10 up, but it's only just occurring to me how odd that last 11 sentence of 87 is. So the agreement - this version of the 12 National Health Reform Agreement - started in 2020; Sorry, 2020 to 2025, it is? 13 correct? 14 Yes. Α. 15 16 Q. And without having it in front of me, I know it says 17 something along the lines somewhere that innovation, innovative models of care are going to be critical, which 18 19 is why it's surprising me that New South Wales is the only 20 jurisdiction, et cetera, that you've said in your 21 statement. Are there any trials in the pipeline? 22 Again, I wouldn't be able to reflect on that. Α. This is 23 not the area that I'm managing. The only thing I will 24 reflect on, though, is that, you know, the current agreement does have some clauses that enable novel models 25 26 to be trialled. What we need is to emphasise that so that 27 it becomes even more "business as usual" for those --28 I think the part of innovation and innovative models 29 Q. of care being critical, I think, is in the schedule of the 30 31 agreement that deals with long-term health reforms. 32 Α. (Witness nods). 33 34 Which is why it surprised me to see that New South Q. Wales is the only jurisdiction to have explored funding for 35 36 those sorts of trials. You mentioned one. Are there any others that New South Wales has put up? 37 There are others. I wouldn't be able to --38 Α. 39 40 Q. This is not your area? 41 Α. No, this is not my area. 42 43 Q. We can follow that up with someone else. 44 It relates to our work when we develop an innovative Α. 45 model and we find a bit of a hurdle in terms of the 46 reimbursement model, but I'm not the one managing the portfolio of collaborative work with the Commonwealth. 47

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1 2 Q. The way I understood it, just from reading the 3 agreement, is that what's meant to happen is that people 4 with the relevant expertise through - no doubt through the 5 senior public service, public servants, say, "Here is a great idea for a new model of care that will have better 6 outcomes and it might be cheaper, who knows?" And that 7 8 IHACPA is meant to get involved and work out a way of - if 9 there's going to be a trial funding it, to see how it 10 works, and then either it does work as hoped or it doesn't. But it doesn't seem as though that's being taken up, at 11 least in --12 13 Α. I would say there are still instances where we are 14 pushing for certain new models of care where people are reflecting on the challenges that it causes in terms of 15 16 funding and appropriate funding. 17 18 Q. Thanks. 19 Α. And again, it's not the cost of implementation. This 20 is more about funding health care on an ongoing basis. 21 22 DR WATERHOUSE: Q. If we were to seek more evidence about that, whose area would it be who would be able to 23 24 speak to that? 25 Α. It would have to be strategy, planning and patient 26 experience. 27 28 If we can just go back, please, to 94, I just wanted Q. 29 to clarify the term in the second-last line "a strong mechanism" - what did you have in mind for a strong 30 31 mechanism? 32 My apologies, which number are you? Α. 33 34 Q. At 94, I beg your pardon. 35 Α. Thank you. 36 37 Q. And it's the last sentence that I read out previously. It refers to "a strong mechanism to embed innovations" -38 what would that strong mechanism be? 39 40 Α. I think it's about the intensity of effort, when we 41 decide that something needs to be implemented in all 42 clinical settings, so that we have the appropriate number 43 of people that will be mobilised for an appropriate amount 44 of time, so that we truly embed it in regular practice 45 afterwards. 46 47 The literature on implementation does suggest that .26/02/2024 (10) 1108 JF LEVESQUE (Dr Waterhouse)

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it's difficult to commit such an amount for implementation, 1 2 but it's increasingly recognised that if you don't commit 3 enough resources and for a long-enough time, it's unlikely 4 that the benefits will be sustained afterwards, because you 5 didn't take the time for the true behaviour change from a clinical perspective to be adopted and for all of the 6 7 processes to have been integrated as part of business as 8 usual.

10 That really means that from an ACI perspective, we need to be parsimonious in the number of initiatives that 11 12 we roll out across the state as each hospital and district 13 have a certain amount of resourcing available for this kind 14 But we also need to make sure that when we of change. propose to implement at scale, that we've got a realistic 15 16 request in terms of the resourcing required to implement 17 that scale, especially when the change is significant.

THE COMMISSIONER: 19 Q. Don't let me put - and I know 20 you won't - words in your mouth, but is what you're really 21 saying in that last sentence of paragraph 94 - and 22 accepting that it's a matter for executive government, I suppose, as to how much money it spends on certain things 23 24 - you're saying that at least to scale models of care that 25 have proven to be good value into, as you say, business as 26 usual, there really needs to be more funding to help you do 27 that?

28 It's about the amount of funding, given the challenges Α. 29 of transforming health care, but it's also about the agility, so that we don't always have to plan from day one 30 31 what things will look like over the next four years of 32 Because sometimes things don't go this way implementation. 33 in complex systems, and we need to have a way to fund those 34 initiatives in a way that provides that flexibility - with still good accountability, don't get me wrong, but it's 35 36 about being able to sustain the effort and adjust when 37 suddenly we cab see that the system is not responding to what was initially planned and funded. 38

40 DR WATERHOUSE: Q. In the following paragraph you talk 41 about the three main routes by which projects that have been demonstrated to have strong potential can be 42 43 implemented at scale, in paragraph 95, and then if we just 44 stroll down to the top of the next page, I want to explore 45 a couple of those. So the first one is a business case. 46 Where does the money come from, if there is such a business 47 case put forward?

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1 Α. Well, there are various sources of funding, depending 2 on how government structures, you know, its budget. So 3 we've progressed, for example, business cases aimed at IT 4 funding that was available in the system. Sometimes it comes from treasury as an additional allocation to health 5 to allow these programs, and at times it's been business 6 7 cases that we've submitted in partnership with the 8 Commonwealth and the state government for funding as well. 9 10 So those business cases are progressed to treasury or the relevant assessment body, but the money comes from 11 12 government. 13 14 Does the ministry have any sort of contingency fund Q. that it holds for the purposes of business cases like this? 15 16 Sometimes we do have to absorb within the budget, you Α. 17 know, by reallocating from one program to the other to 18 accommodate some of the programs. That's something we do 19 within ACI as well, within our base allocation, and when we 20 don't need additional resources, we don't ask for 21 additional resources. But when a program really requires 22 implementation at scale, in hundreds of hospitals, obviously, the available resourcing we have internally may 23 24 not be sufficient and that's when we ask for additional 25 funding through business cases. 26 27 It's the case also, if there is a significant 28 investment to be made in either a technology or a specific 29 device or therapeutic, we wouldn't be able to absorb all of those kinds of new initiatives within, you know, the 30 31 operating expenditure of the ACI. 32 33 Q. Are business cases sometimes funded by a levy on local 34 health districts? 35 Α. Not from those that we are progressing. 36 So taking the example of Telestroke, since we've 37 Q. talked about that a bit, how would something like that have 38 39 been funded? 40 Α. So this one was funded through a business case process 41 and it was co-funded between Commonwealth and state, so there was a contribution from the Commonwealth, and there 42 43 was an additional allocation provided to the Ministry of 44 Health to manage, and the ACI received funding that related 45 to the activities that it needed to support as part of that 46 program. 47

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Moving to that second route, you refer there to 1 Q. "dissemination of new models of care via ACI", and further 2 3 down in that paragraph you refer to - it is the middle 4 there - "Connecting with LHD staff promotes some 5 standardisation and efficiency in implementation of the new Is this efficiency for ACI because the local 6 models". 7 health district is absorbing the cost? 8 This is actually when ACI mobilise its own resources Α. 9 to support implementation across the state. And for some 10 of our program, it's perfectly appropriate to do that. You know, we have network managers, we have project officers 11 that, if the program is not extensive, you know, we can 12 13 just use our internal resources to do that. 14 At the local level, in many of the districts, they 15 16 also have implementation teams and innovation teams, and we 17 work in partnership with them, asking them to prioritise those programs, you know, compared to other local issues, 18 and that's part of the discussions that we're having with 19 20 them. 21 22 In some rural settings or smaller settings, at times we have to mobilise the entire resourcing, because they 23 24 don't have that internal capacity to support the programs compared to bigger metropolitan local districts. 25 So we do 26 adjust, depending, but in no way do we transfer, you know, 27 the brunt and the burden of implementation entirely on the 28 districts. 29 But it is possible, isn't it, that a district might 30 Q. 31 actually find it quite costly to implement even if there 32 isn't major system redesign or technological uplift? 33 Α. It is possible, and if we hear that feedback, you 34 know, we're exploring ways to try to support them. We have given spot grants at times when required, when districts 35 were telling us, you know, "We just can't cope with the 36 volume of change required at the moment." 37 And at times we've also delegated our own staff to go work with them on 38 39 a more ongoing basis. 40 So you're right, sometimes the ask is significant. 41 especially if locally the change management is not going 42 smoothly, and that's obviously when we would step in and 43 44 try to mobilise resources as much as we can. 45 46 If we go to paragraph 97, that second sentence there Q. 47 says:

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2	However, a project may demonstrate that it
3	is feasible and accentable and provides
3	volue to the evoter yet of the end of
4	
5	a trial period, there is not always
6	capacity and flexibility in providing
7	funding support for its incorporation into
0	husiness as usual across [local health
0	
9	aistricts].
10	
11	What happens in that instance?
12	A So this is obviously when we have to prioritise our
12	limited resources and some programs cannot be supported
13	
14	even though they were promising, and this does happen.
15	I think it's part of managing a healthcare system and an
16	improvement program to have to make those decisions, of
17	course
10	
10	
19	
20	What happens is that at times, what we will say is
21	that we will either pace the implementation on a longer
22	time frame to reduce the ask; at times what we will say is
23	that we will just go to a spread process support the local
23	districts to implement in other bounded, without
24	districts to implement in other nospitals, without
25	necessarily going to statewide implementation straightaway.
26	
27	THE COMMISSIONER: Q. Give me an example of a project
28	that demonstrated it was feasible and accentable and
20	provided value, yet at the end of its trial period, it
29	provided value, yet at the end of its trial period, it
30	wasn't funded?
31	A. Well, TeleECG is one example.
32	
33	0 TeleFCG?
24	A Vac was which is that tale achocardiography program
34	A. Tes, yes, which is that tere-echocal drography program
35	and what we re doing, what we re doing at the moment
36	
37	Q. Explain that.
38	A. So that program is about the remote access to the
30	echocardiography results so that local connections
40	conocal drogi apily results so that rocal connections
40	
41	u. So someone is in a rural hospital, are they, hooked up
42	to a machine?
43	A. Yeah.
44	
/T /5	0 And compone a condiplegist on company also enother
40	Q. And someone, a cardiorogist of someone erse, another
46	clinician with similar expertise, is at a hospital here,
47	helping local doctors?

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Reads the echocardiograms and says, you know, "This an 1 Α. 2 ST elevation infarct. This is the type of treatment that 3 So it's about remote support. you need to do". 4 5 Q. So that sounds like it has a benefit straightaway? It does, but it's also a very broad program. 6 Α. It's 7 very different from Telestroke. There's a lot more ECGs 8 done in a healthcare system like NSW Health than there are 9 assessment for stroke, given the prevalence of cardiac 10 diseases, and therefore the safest thing to do at that 11 stage was to support the local health district to implement 12 it further within the local health district and then reassess at a latter stage, because the cost of 13 implementation was significant as well and this needs to be 14 15 considered as part of the decision to roll out or not. 16 17 Q. Sorry, I didn't quite understand the first part of the answer - help it roll out in that local LHD? 18 19 So Hunter New England's clinicians - because that's Α. 20 where it started - are really committed to continuing to 21 implement, continuing to support the rolling out of that 22 Hopefully, they will provide further evidence program. about its effectiveness. If, you know, for example, we do 23 an evaluation and we don't find such strong benefits. then 24 we will have been informed, but we're not stopping the 25 26 work, we're continuing to work with them to implement across the entire local health district, even though we're 27 28 not ready at the moment to implement at the state level. 29 So what was the issue with this TeleECG - that the 30 Q. 31 costs of rolling it out across the state are so high that 32 you're not sure that there's the benefit there on the other 33 side? Is that the equation or am I being too basic? 34 No, we think that there's a benefit related to that Α. program, but the cost of implementing at scale is 35 36 significant and therefore we would have had to deprioritise 37 a lot of other programs. 38 So the equation I gave is correct? 39 Q. 40 Α. We would have had to deprioritise a lot of other 41 programs to be able to do that and, you know, when you've got a limited amount of money for innovation, then --42 43 44 So in terms of the benefits of it, when you look at Q. 45 the costs, you've also got to assess that that's money that 46 could be spent on other programs or models of care as well? 47 Α. Absolutely.

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1 2 DR WATERHOUSE: Q. In those circumstances, are local 3 districts ever required to implement it within their 4 current budgets or do they have the discretion to decide if 5 it's a priority for them? They can do that if they want and the tools - you 6 Α. 7 know, we have developed a model of care, we've developed 8 with Hunter New England various tools that they could use 9 and roll it out if they want. So there's still the 10 possibility of emergence of that innovation, it was just not possible to fund it at the state level given our 11 current financial situation. 12 13 14 Q. Let's have a look now at paragraph 103. So this refers to the evaluations and what they typically assess. 15 16 What actions are taken if an evaluation is positive in the pilot sites but not when it's rolled out to other 17 18 locations? 19 Α. Oh, it informs our decision to not roll out or go back 20 Either we say it's not that the to change the program. 21 program is not worthwhile but it's just that it's not ready 22 for scale, we need to change some of, you know, its 23 characteristics, maybe we don't have the right technology 24 vet - you know, there's various reasons that would explain 25 why something that worked locally is not reproduced 26 somewhere else, but it could also be that the program needs 27 to be adapted to various contexts, because the spread test 28 is important because it tells us if something worked just 29 because, you know, you had a really dedicated group of 30 clinicians that somehow made it work, even though it was 31 a challenge to implement, or it informs us that there are 32 characteristics in the environment - and it could be 33 a rural versus a metropolitan setting, it could be the size 34 of the hospital, it could be the local availability of 35 resources - that forces us to change the program. 36 37 So when an evaluation of spread tells us that it's not 38 working, then we would have a rethink with, you know, the 39 people leading the program to assess: do we need to 40 transform the program so that it fits in those new 41 contexts, or is this truly a challenge in terms of 42 demonstrating the effectiveness of the program? 43 44 You know, things may not spread or scale not because 45 they're - sometimes because they're not truly effective, 46 and then we need to learn from that and not invest there, but sometimes it's because they're not adapted to other 47

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1 clinical areas and we need to work with the system to make 2 this happen. 3 4 Q. Can there be cultural differences that influence 5 implementation, either at a district or even between hospital level? 6 Yes. 7 Α. And culture, organisational culture and clinical 8 culture, is well known in the literature as something we 9 need to measure so that we better understand the 10 receptivity of different contexts to an innovation but also the barriers that will come in the way and the things that 11 12 need to be worked out before we start to implement. So 13 absolutely, specific cultures are really important to 14 consider. 15 16 Q. Would you have a look at paragraph 107 for me. I just 17 wonder if you could expand on the greater agility in rapid evaluation and the more dynamic situation modelling that 18 19 you're planning? 20 Yeah, so what we want to do is to really be able to Α. 21 mobilise our evaluation teams to identify very early when 22 an implementation program is not going in the right 23 direction, when we need to make some adjustments to make 24 those programs a success. 25 26 It's really important because it's not true that you 27 always design things in a perfect way right from the start, 28 and that rapid evaluation enables us to tell local teams, 29 you know, "You may not be implementing the program the right way", or, "Maybe we need to stop for a while, raise 30 31 the local capability, work on sponsorship or culture, and 32 then come back to make sure that we use the limited 33 resources we have for innovation in a way that really would 34 be effective." 35 When I say "agile", it's really about being able to 36 mobilise ourselves quickly. So if a district says, "We're 37 struggling", we should be able to mobilise resources 38 39 quickly, evaluate things, give them some feedback, move on. 40 In terms of the dynamic simulation modelling, that's 41 42 about predicting what's going to happen. We're lucky 43 because we live in a time where data computing capability 44 has really increased and we can increasingly do modelling 45 that is almost a replica of the healthcare system and the 46 way things move within the healthcare system. That can better inform us in the future about the potential impact 47

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of some of those new models and new technologies, but also
 potential unintended consequences that we need to take care
 of.

You know, if we implement something that has got an impact on emergency department functioning, but ends up putting more pressures on the beds on the wards, for the entire system it may not be as positive as if we just look at the emergency department's impacts.

So dynamic simulation modelling helps us to better understand the interdependencies in the system and propose to the system innovations that we know overall will have a good impact in addition to the - you know, the already trialled kind of processes within specific clinical units.

17 Q. How do you gather information for that modelling? 18 It's by linking different types of data. Α. So we know 19 we've got intensive care data, emergency department 20 datasets, hospitalisation datasets. We've got workforce 21 data we can put in the mix, financial data. There's 22 increasingly capacity in the system to link different types of information and then being able to provide that dynamic 23 24 simulation modelling.

26 But this being said, the clinical input is extremely 27 important because it's the clinicians that ultimately tell 28 us, you know, "If we do it this way, this task takes five 29 hours. If we do it that way, we can reduce it to one", you And then we put the right parameters in the model to 30 know? 31 have something that's not just based on historical data but 32 also based on what it could look like if the innovation is 33 successful. And that clinical input is absolutely 34 fundamental and that's why we feel that ACI is an organisation that needs to use those tools because we've 35 36 got the clinical foundation to really get those kinds of 37 models right.

- Q. You will probable be very happy to see the word
 "summary" in the middle of the page there, because that
 means that we're nearing the end.
- 43 Commissioner, do you want me to press on? I haven't 44 got a great deal more rather than have a break or would you 45 prefer to have a break.
 - THE COMMISSIONER: I got told at lunch that the transcript

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1 people didn't mind going all the way through. If that's still the case, we'll just keep going. 2 3 4 DR WATERHOUSE: Q. If we can go to paragraph 110, 5 please. Just roll down to subparagraph c. So vou talk there about prioritising innovations that are potential 6 7 game changers. Can you give us some examples of game 8 changers that have been identified to date? 9 Α. There are obviously a few in virtual care, for 10 example, when studies demonstrated that some types of remote monitoring would really help to reduce length of 11 12 stay in hospital, for example, or when remote monitoring or 13 virtual care would enable us to avoid hospitalising 14 patients by sending them back home instead, with the appropriate technology that would enable us to track them. 15 16 17 But there also are the game changers in the advanced 18 therapeutics space where we can see that some new 19 treatments actually are at times costly, but can prevent 20 many episodes of illnesses and hospitalisation, and 21 therefore, they're game changers, because for some of them 22 it's a single treatment or a very short course of treatment that can prevent a few years of the more traditional type 23 24 of treatments. That's really a game changer because it, you know, completely changes the way we think about things. 25 26 27 I mean, the advances in cystic fibrosis are a good 28 example of that, where those treatments are really 29 positively impacting the health, the quality of life, you know, of patients, of people with cystic fibrosis, and we 30 31 can see it is having an impact on the type of services we 32 need to provide for them as well. So they're truly 33 changing the game, you know, and that's something that we 34 need to increasingly be proactive about, provide the right assessment and then design model that would support their 35 36 integration going forward. 37 You mentioned there about requiring system changes, 38 Q. and obviously ACI would not be responsible for all of 39 40 those, but what sorts of changes have had to be made to 41 accommodate new game changers like this? 42 Well, I think that maybe I will talk about CAR-T cells Α. 43 again, you know, those cells attacking cancers. We knew 44 the technology was coming, but we also knew that to treat 45 patients with those technologies in the right way, we had 46 to somehow design things differently in terms of, you know, what would be the referral patterns, when would we want to 47

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provide them with those treatments, what kind of outpatientfollow-up would we have to do afterwards?

What we did is to work with relevant branches in the ministry, with the local districts, and basically co-design with them what would be the right processes to ensure good access to those treatments.

9 It's going to be - well, it was the same with 10 Telestroke, you know, we really had to assess how it was changing care, because obviously if you see a patient but 11 vou can't access the actual technology that would enable 12 13 you to transmit the images to the hub, then you can't 14 provide Telestroke, and that, therefore, required at times to even redesign the places where some instruments were 15 16 located within emergency departments in some of those 17 hospitals.

19 So those are the kinds of things that we increasingly 20 work with the system, giving them the support to provide 21 the redesign, but ultimately, of course, it's the local 22 districts and the local hospitals that, you know, do make 23 the change physically and from a process perspective, at 24 the local level.

26 Let's move to 112, which is where you have listed some Q. challenges. I'm going to just highlight a few of these. 27 28 So there's a bit of similarity in the first two, a and b -29 they deal with variation across the system in adopting new models of care, and b deals with local health districts 30 31 that are working in isolation and developing their own 32 models of care. Isn't there a place for local health 33 districts to develop their own models of care because they 34 know their population best?

There's absolutely a place for local districts to 35 Α. 36 adapt models of care to their local circumstances. What 37 we're talking about here is work that redesigned the entire model of care that is produced at the state level. 38 And in some areas, you know, the evidence is quite clear, there 39 40 shouldn't be a big variation between local, you know, 41 processes and models of care, and we need to find a way, then, to tell the local districts, you know, "This is 42 43 there, just adapt it to your local area, but we're very 44 confident this is the best model for your clinicians". 45

46 THE COMMISSIONER: Q. Professor, would you mind - in 47 your answer to Dr Waterhouse's question, could you give an

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1 actual example of - in relation to subparagraph b, for 2 example - LHDs working in isolation to develop de novo 3 guidance and models of care and also models being developed 4 by LHDs that aren't brought to your attention and the 5 system's attention? I wouldn't want to single out a specific clinical area 6 Α. 7 because I feel that it's happening in many different 8 clinical areas, but we're really talking about, you know, 9 models of care where clinicians would be mobilised for 10 a period of time, reviewing the literature locally, starting to agree on what is the right way to deliver care, 11 and ultimately ending up with a result or an outcome very 12 similar to what we will have in parallel developed at the 13 14 The reverse happens --ACI. 15 16 I'm sorry, I'm definitely not trying to be difficult, Q. but I don't know - I understand your general proposition, 17 but I don't know that it helps me as much. I mean, you're 18 19 in a section of your statement that's headed "Challenges", 20 which I assume means might be in the context of, "This is 21 a difficulty we face." It would really help me if there 22 was a more concrete example of what you're talking about 23 here rather than the general? 24 It's a difficulty because the amount of resources we Α. 25 have to dedicate to mobilise clinicians, write up models of 26 care, is limited. 27 28 Q. Sure. 29 Α. And we need to make sure that we also invest more efforts in actually supporting adoption of those models of 30 31 care at the local level. And that's why, at the ACI, we're 32 working now with other states not to duplicate a model of 33 care if there's already a very good spinal cord injury or 34 maternity model of care developed in another state, and we reduce the amount of work we would have to have to make it 35 36 locally adapted, but by avoiding redoing many of the steps that they've taken to develop those models of care. 37 38 39 So we need to be more systematic at making sure that 40 we know what the districts are working on so that at times 41 we let them come up with the first, you know, draft and design of specific clinical guidance, but also to make sure 42 43 that once they know we're working on a statewide model, 44 they don't invest all of the time required to mobilise 45 clinicians to produce one at the local level in addition to 46 that statewide one. Then we can mobilise resources to 47 support dissemination in the system, the appropriate

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engagement with clinicians, and really the effort that's 1 2 required to support adoption locally. That's really our 3 goal. 4 5 Q. Okay. Well, this is your statement: "Models developed by LHDs are not always brought to the attention 6 of the system" - what's an example of that? 7 8 It could be that a local district has developed their Α. 9 own optimising surgical theatre guideline, when we already 10 have one that gives key elements that need to be considered to make operating theatres more efficient. 11 12 13 Q. And this only comes to the attention of the system, 14 what, anecdotally or --Either through the consolidation and then the work 15 Α. 16 that we do at the state level and then we realise that many 17 districts have developed in parallel similar kinds of tools, or at times, it comes out if, you know, they tell us 18 that they already have a model of care following the 19 20 consultation. 21 22 Well, just on that, wouldn't this be solved by Q. 23 a monthly meeting where all new models of care that LHDs 24 are developing are discussed? Well, it's - I think it's part of it, but it's also 25 Α. about the commitment of the governance structures to 26 surface those and be transparent about it. It's not just 27 28 about collaborating. At times, it's about committing to 29 coordinate things. We certainly are committed to that because the reality is that to run a healthcare system like 30 31 NSW Health, you need hundreds of clinical guidance 32 documents and models of care and they need to be up to 33 date. 34 35 Q. You don't need to go into specifics about this but does that mean there are instances of some LHDs 36 deliberately not sharing models of care they're working on? 37 I think there's different drivers for that. 38 Α. Sometimes 39 it's just that clinicians may take the initiative to do it 40 and it doesn't quite surface up to the clinical governance 41 structures quickly, so that happens. Sometimes, to be honest, it's universities that are reaching out to specific 42 43 clinical areas and starting to work on some of those models 44 of care. And at times, it's because they're required for 45 accreditation purposes or for other regulatory purposes, 46 and all of those things are things we can work on as The statement here is really a desire and 47 a system.

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a commitment to reduce the burden that all of those models 1 2 of care impose on our system so that we can mobilise more 3 resourcing to actually implement them. 4 5 DR WATERHOUSE: Q. So the main concern, by the sound of it, is duplication of resources or effort; is that correct? 6 7 Α. Yes. 8 9 Q. But is it possible also that there may be more buy-in 10 from clinicians if they've personally been involved in investigating and developing the model themselves? 11 Well, that's where championing and other things we 12 Α. 13 could do in collaboration can actually make a real 14 If everybody agrees that we need one clinical difference. 15 practice guide in a certain area and then local districts 16 work on translating it in terms of local processes, and 17 everybody agrees to that, I think we can achieve a more coordinated approach, like in the English NHS, for example. 18 19 There's lots of examples where you can see that different 20 levels can actually contribute in a coordinated way with 21 other more locally driven levels, so that you avoid 22 duplication, and instead you increase tailorisation and 23 localisation of the guidelines. 24 25 Q. In paragraph c you refer to reluctance of local 26 communities and clinical groups to adopt or support 27 innovative models, and then further down, at f, it's 28 a similar issue of reluctance to incorporate successful 29 pilots into business as usual. What do you see as the 30 driver of this challenge or these challenges? There's a lot of different drivers and, of course, 31 Α. 32 culture is one --33 34 THE COMMISSIONER: Sorry, do you mean the drivers of the 35 reluctance or --36 37 DR WATERHOUSE: Of the reluctance, yes. 38 39 THE WITNESS: So culture is one. Training of clinicians 40 and the way they're trained and the way they've practised 41 for a very long time is a driver of that. At times it's also perception about, you know, what is the right care. 42 43 surgical versus non-surgical, home care versus 44 Then, of course, there's the complexity hospitalisation. 45 of the interaction between patients' expectations and what 46 clinicians feel they need to do for patients. 47

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1 There's financial drivers to that, there's regulatory 2 drivers to that at times, and, of course, the paramount of 3 safety is really something that also at times is 4 a challenge for organisations like ours that have to 5 demonstrate that we can do things in a different way, in 6 more innovative ways, and it's still safe for patients, and 7 as the times, to be honest, even safer from the perspective 8 of preventing complications. 9 10 So it is complex to change clinical practice because clinical practice is made of habit, it's made of - you 11 know, the word says it, "practice", you know, you get 12 better and better from a clinical perspective when you do 13 14 more surgeries of a certain way, and if the evidence changes and suddenly you have to practise in a different 15 16 way, then it's challenging for those providers. So there's 17 a lot of different drivers but it's also part of the nature 18 of delivering health care. 19 20 Q. Let's move on to the opportunities in paragraph 113 --21 22 THE COMMISSIONER: Just before we leave that. 23 24 Q. In 112d, lack of integrated data and capacity for 25 modelling or artificial intelligence techniques to support 26 assessment of potential innovations, et cetera, I think we 27 all know what "modelling" means. Integration of data or 28 integrated data, I take it that means you've got data over 29 here, you've got data over there, you know, workforce data, some other data, diagnostic data, whatever, but we don't 30 31 have a system that integrates that together; is that what 32 you mean by --33 Α. Yes, there are improvements that could be made in 34 terms of that integration, and the COVID pandemic has 35 demonstrated that to manage personal protective equipment, 36 for example, we needed to link different types of 37 information to be able to predict the amount of masks that would be required. This being said, I do want to 38 acknowledge that NSW Health is the most advanced and 39 40 structured healthcare system as far as I'm concerned in 41 terms of data linkage, but --42 43 Q. I will take that on notice. Victorians may say 44 something different, who knows --45 Α. They may, they may. 46 -- but anyway, I'll believe you. 47 Q.

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1 Α. My experience in other countries as well suggests that we've got a strong foundation, but now it's the types of 2 3 data that we need to better link, so that it's not just the 4 clinical data that we link together, it's also data that 5 relates to management of the system so that we're better able to really provide advice about the right allocation of 6 7 resources to promote innovation and that's what that 8 statement is pushing for. 9 10 Q. We'll no doubt get into this in more detail later, but to just get a few basic things in, and so we know what 11 12 we're talking about, when you use the term "artificial intelligence", what do you mean? 13 14 It's a very good question, because it can mean many Α. different things, and in this case, it can mean - and I'm 15 16 talking about artificial intelligence techniques, so it can 17 mean algorithms derived through artificial intelligence, but once they're derived, they're just automation of, you 18 19 know, information that we provide to clinicians, but at 20 times it could be that there's truly an artificial 21 intelligence software constantly learning about how to 22 better read wounds or x-rays or other imaging. 23 24 Q. That's sometimes called "machine learning", is it? Α. 25 Yes. 26 That's raw data in, the machine gets --27 Q. 28 Α. That's one --29 Q. -- learns more? 30 That's one of the methods of artificial intelligence, 31 Α. 32 that machine learning. 33 34 And I think a subset of that is, like, neural Q. 35 networks, where the more data you put in --36 Α. Yes. 37 -- the machine actually ultimately gives you an answer 38 Q. to the problem - hopefully, the correct one? 39 40 Α. And refines the algorithm so - or other signal that 41 it's generating, according to not just the breadth of data 42 but potentially its evolution if things are changing. 43 That's where some of those tools are learning whilst others 44 are based on artificial intelligence techniques but then 45 fixed in time. In health care, mostly it's fixed 46 algorithms developed through artificial intelligence that 47 we're seeing at the moment.

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1 2 Q. And if I were to ask you, which I am, as to what are 3 the areas where artificial intelligence in the broad scope 4 we've just discussed might have an impact on the healthcare 5 system, can I ask you what they would be? One I've read 6 about obviously is opportunities for diagnostics, radiology 7 and pathology? 8 Α. Yes. 9 10 Q. Can you explain a bit about that - looking at pictures, et cetera. That's one area? 11 12 Yes. So one obvious area is diagnostics because, you Α. know, radiology, we're talking about scans and films that 13 14 have millions of pixels and therefore, analysing those millions of pixels requires artificial intelligence to be 15 16 It's the same with pathology where the movements involved. 17 of, you know, different molecules in different tests can be 18 really, you know, enhanced by artificial intelligence 19 techniques. 20 21 But there are other areas where artificial 22 intelligence can really impact health care as well and --23 24 Q. Predictions, you mentioned that before, predictive 25 technology? 26 Yes. Yes, predictions by looking at different Α. measures, you know, and multiple measures changing all at 27 28 the same time and capturing signals that maybe human beings are not as quick to capture, but there's also --29 30 31 Like, for example, the patient's data going into the Q. 32 machine and the machine --33 Α. Early signal of deterioration --34 35 Q. -- sending a message to the doctor or clinicians and the nurses, or whoever, saying "This person might be about 36 to go into kidney failure or sepsis", or something like 37 that? 38 There are tools that have been developed through 39 Α. Yes. 40 artificial intelligence that do exactly that. Thev're 41 currently being refined and evaluated and tested, but yes, 42 it can be an adjuvant to clinical decision, because it 43 captures early changes that again wouldn't be evident if 44 you just looked at the patient without mixing together 45 a lot of different pieces of information. 46 Another area is drug discoveries, research. 47

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Increasingly artificial intelligence can help to reduce the time that it takes to identify which molecules would be a good candidate for treating that specific condition and guide the repurposing of drugs so that we, you know, respond to some illnesses where the current therapies available are not quite responding to the needs.

8 In the past, we would have to do that manually. You 9 know, drug per drug, testing with new indications. 10 Artificial intelligence really helps to speed that process and identify the most likely candidates to work in the 11 repurposing, and it's going to be the same in many 12 different areas of proteomics, metabolomics where there's 13 14 a lot of proteins in the body and artificial intelligence is increasingly helping us to understand what are the 15 16 configurations that are a marker of a certain condition or 17 the evolution of disease, and therefore we need to get 18 ready to better assess those technologies using artificial 19 intelligence and wrap them around the right governance 20 framework so that it reaps the benefits, whilst we also 21 manage the risks associated with those going forward, and 22 that's why the artificial intelligence task force was established. 23 24 So diagnostics, predictions like early warning 25 Q. Right. 26 systems?

A. Research and discovery.

29 Q. Drug development?

30 A. Yes.

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32 Q. What else could there be?

A. Back of office management of some tasks. There's
 literature --

36 Q. Funding models?

A. There's literature emerging in many different areas
 and that includes --

40 Q. There could be an algorithm that solves this entire 41 Inquiry.

42 A. This is outside of my specific area of expertise --

43 44 Q. Yes, it's outside of mine too.

A. -- but I know that there's a lot of trials in many
areas that relate to managing the healthcare system as
well.

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1 And there are more basic uses of artificial 2 Q. 3 intelligence like chatbots that remind people, "Don't 4 forget to take the drugs that you've been prescribed", that 5 sort of thing? 6 Some of them are indeed integrated into medical Α. 7 devices at times to support, you know, patient behaviours 8 and adherence to some treatments as well. 9 10 Q. And in your role as head of the task force, artificial intelligence task force that has just been set up, I know 11 you haven't finalised your terms of reference yet, but --12 13 Α. They are. 14 -- what are the key risks that you see to health from 15 Q. 16 artificial intelligence? 17 Α. So from what we know in the literature and various 18 frameworks adopted internationally, obviously, you know, 19 privacy is extremely important, you know, management of 20 information is really one of those. But also regulatory 21 frameworks, we need to better understand for some of those 22 tools what would be the implications from a medicolegal perspective. We need to ensure really that when we assess 23 24 those technologies we consider all of those risks before we 25 start to integrate them into mainstream clinical settings. 26 27 There's still a risk of machine error like there's Q. 28 a risk of human error at the moment? 29 Α. Yes. And one of our roles is to survey the literature and compare when algorithms have been compared to clinical 30 31 decisions, and then reflect on how do we need to use our 32 clinicians and the expertise that they have to be enhanced 33 by those technologies when we find that there are some 34 tasks that those technologies can do in a more consistent And that's the kind of translation that we will have 35 wav. 36 to do, but again within our safety frameworks, which are 37 extremely important from a health perspective. 38 Your task force, I think I read, is time limited at 39 Q. 40 the moment. What does that mean? 41 Α. 0h --42 Q. 43 I know what it means --44 Α. -- we don't know --45 46 -- but what does it mean specifically? Q. We don't know how long it's going to be there for. 47 Α.

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1 The goal is to accelerate a lot of the changes within the 2 system across different organisations because artificial 3 intelligence, just like data and information, is not going 4 to be something managed only by one team within a complex 5 system like NSW Health, you know, there's going to be implications for workforce, finances, clinical settings, 6 et cetera. And for the task force --7 8 9 Q. You wouldn't have set the task force up for fun --10 Α. No. 11 12 Q. -- given the number of meetings you have to go to? 13 Α. Yes. 14 Is AI amongst the biggest challenges/opportunities 15 Q. 16 coming to the health system generally? 17 It is top priority for us, so that we get ready for Α. 18 a lot of the developments that will appear in the coming 19 And the task force is there so that every component vears. 20 of the New South Wales health system now starts to think 21 about what is it that we need to do now to manage the 22 current challenges related to AI, and how do we get ready 23 for the next few years? And that can be in terms of, 24 again, regulation-specific policies, clinical information systems, you know, there's a lot of different aspects that 25 26 need to be progressed and we're just bringing all of the 27 leaders from the system to co-design it together. 28 29 Q. So one of the research institutes described to us in a meeting that the number of gene therapies, cancer 30 31 therapies, precision medicine therapies that are coming, 32 literally within the next 12 months to five years, is like 33 a tsunami hitting the system - AI is like a second tsunami 34 or building on that tsunami in terms of its potential 35 impacts on the system? 36 Yeah, so, as I was saying, in terms of research, AI is Α. going to increasingly - you know, it's going to increase 37 the speed of change. So for gene therapies, for example, 38 AI is really enabling us now to analyse millions of gene 39 40 mutations and better understand the potential of some of 41 the therapies. So that means that the pipeline of 42 innovation is going to rapidly increase and we need to be 43 ready to harness that. And that's the goal of the task 44 force, to put in place the right, you know, administrative, 45 clinical engagement, data infrastructure, et cetera, 46 processes so that we take that wave for the benefit of the 47 system and the population of New South Wales.

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1 2 Q. Do you want to be cheeky and tell me how much money 3 you need to be right on top of all of this? 4 I wouldn't be able to say that. Α. 5 DR WATERHOUSE: I had a few questions myself about AI 6 Q. 7 so I might just cover off on those now. How was the AI 8 task force that you're co-chairing selected? 9 Α. So we did an expression of interest across the system, 10 asking chief executives of organisations of local 11 districts, of various stakeholders across the system, to 12 identify their key people that would be able to come to the task force and share their expertise but also come back to 13 14 those organisations and be the leaders of change. Because we're really talking about a task force that will not be 15 16 able to do all of the work on its own. It's really about 17 leveraging the work of pathology, eHealth, ACI, the local 18 districts and we've got a really good representation of all 19 of those organisations. 20 21 Q. Does it include external experts who actually develop 22 AI programs? 23 Α. There are some, and we also have other mechanisms for 24 us to be connected with that, so we've got a living 25 evidence table on AI that's available on our website and 26 constantly updated, but we're also part of the artificial 27 intelligence, you know, national network, where we receive 28 information about the key developments, and we've been 29 a member of that national group for four years. 30 31 And one of the roles of the task force, will that be Q. 32 to look at the lack of integrated data for modelling, 33 et cetera? 34 I think the task force will look at what is the Α. potential that AI would give us to have a more streamlined 35 36 integration but also potentially how can we use new methods 37 that would protect privacy, reduce some of the risks related with linkage through designing synthetic datasets, 38 39 for example. And by synthetic datasets, I really mean 40 datasets where we could still analyse data and find 41 relationships, but nobody in that dataset is an actual real person, if you see what I mean. It's almost like you tweak 42 43 the data so that it preserves the association so that you 44 can do the studies, but nobody's information is 45 identifiable anymore, and, of course, AI can help us to 46 develop new ways to analyse data like this. 47

1 Q. The task force is charged with developing a framework. 2 What will that framework cover? 3 That framework we intend would cover what is the Α. 4 regulatory approaches; what are the key priority areas we 5 need to explore; what are some of the risks and issues; 6 what are the clinical applications that we want also to 7 prioritise and explore; what are the applications that may 8 actually help the system to run efficiently as well? The 9 framework should help us to give guidance to the system for 10 the next few years about, you know, accompanying that introduction of those technologies in different parts of 11 the system, or through different devices and technologies 12 that we use otherwise. 13 14 We've talked a bit about resistance to change, and you 15 Q. 16 identified this as being an area of profound change. What is ACI or the task force doing to manage this anticipated 17 change and what you can expect to be the resistance to it? 18 19 So, I mean, establishing the task force and building Α. 20 the framework is, of course, the first step. We are --21 22 I'm talking specifically about how are you going to Q. 23 manage the resistance to this profound change? 24 Α. I think it's about being transparent about truly 25 what's being demonstrated there. So what is the evidence; 26 what is the comparative effectiveness of a medical device 27 that uses or not; what is the comparative effectiveness 28 between human based processes versus processes that are 29 enhanced by AI? 30 But it's also about - going to be about working with 31 32 the developers of AI so that there's more transparency 33 about the AI tools, because clinicians will want to know 34 how is this working, and we cannot propose to them a black box where they can't see how is this algorithm arriving at 35 36 a certain result. 37 The challenge, of course, is that for some of those AI 38 tools, it's very difficult to explain how it works, because 39 40 it is, you know, a neuro system or a deep learning system, 41 and therefore, it's going to be a challenge for some of It will have to be through research 42 those applications. and trials so that we will demonstrate that those things 43 44 work, just like we do for pharmaceuticals, and I think that 45 then clinicians would be willing to explore using some of 46 those tools. 47

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1 Q. If we could just go to paragraph 113, you say at the 2 beginning there, in the second sentence: 3 4 There are opportunities for greater 5 linkages between the delivery arm of NSW Health and the innovation arm ... 6 7 8 Can you clarify what you mean by those two arms? 9 Α. I really mean between ACI and local health districts 10 and local hospitals. We need to continue to strengthen that relationship and that collaboration. You know, 11 12 there's no point in having a central agency doing all of that work, assessing what's emerging in the literature, 13 14 what's emerging in different clinical settings, and then not have a system based approach to ensure that it 15 16 translates into clinical practice, you know, and therefore, 17 I think we need to further that linkage through different 18 ways, and that's really a commitment that we have. 19 20 But there is already a lot of innovation happening at Q. 21 a district level. It's not all coming from ACI, is it? 22 Absolutely, absolutely. Α. 23 24 Q. You talk also about no jurisdiction having fully achieved this. Are there other jurisdictions you're aware 25 26 of that are doing it better that we can learn from? 27 There are some that I would consider gold standard, Α. 28 some American HMOs, for example, that really have been able 29 to fully integrate a lot of their innovation ecosystem with I think that we sit in a good place 30 their delivery arms. at the moment in New South Wales and we can build on that 31 32 platform, but we're not achieving the level that some of 33 those systems are achieving at the moment. 34 35 Q. Did I hear you say HMOs? 36 HMOs, or other types of organisations in the US, some Α. systems in Canada as well. There are European systems 37 where they've established guite embedded innovation 38 processes. We're scanning those to be informed by them and 39 40 learn from them, either through our international expert advisory group or through the international scanning that 41 42 we do otherwise. 43 44 And by "HMO" do you mean health maintenance Q. 45 organisation? 46 Α. Yes. 47

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In 113a, in subparagraph a there, you refer to ABF as 1 Q. 2 But ABF is not actually an impediment to being a barrier. 3 change, is it? Would it be fair to say there's nothing to 4 stop a district adopting a model of care that's more 5 efficient, even if it doesn't translate to counting towards hospital based activity? 6 7 Α. That's correct. There's nothing that stops districts 8 from doing this, and there's even ways within the National 9 Health Reform Agreement that would allow for some of those 10 innovative models to be delivered, explored and funded. I think that a lot of it is because of culture and habit 11 12 and at times people take for granted that the new model will disrupt things and therefore it's perceived as not 13 14 being supported by the current funding model. 15 16 Q. So it's a perception that's out in the system --17 Α. At times. 18 Q. -- is that correct? 19 20 Α. At times it is. 21 22 You talk about blended reimbursement approaches. Q. Can 23 you explain what you mean by that? 24 Yeah. So blended reimbursement approaches are when Α. 25 you start to combine funding that comes per capita, for 26 example - you know, number of patients within a certain 27 roster. A certain amount would come from activity, where 28 if you give more vaccines, you get paid for those vaccines. 29 Some of it is block funding and, of course, block funding is already present in NSW Health, but we need to find a way 30 31 to use it strategically for the purpose of innovation. And 32 at times also there could be other funding models or 33 reimbursement models that are based on outcomes, for 34 example. 35 36 So blended models are really models where you use outcome based, activity based, capitation models as well as 37 block funding to provide a flexible approach to clinical 38 settings so that they make the decision based on the 39 40 patient's needs, not so much, you know, just to produce 41 more services. 42 43 Q. Let's scroll down to subparagraph e. 44 Α. Did you say e, sorry? 45 46 Q. Yes, e for "echo"? 47 Α. Thanks.

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1 2 Q. You talk there about greater rationalisation of the 3 vast numbers of local models in the second-last line there. 4 How does ACI plan to achieve that given the extent that 5 you've highlighted of the variation in uptake and districts 6 doing their own thing? 7 So the first thing is that we've started to revise our Α. 8 own internal processes to develop those models of care and 9 those clinical practice guides. We're talking about 10 hundreds of models that we need to keep current, keep up to 11 date, and therefore, we needed to ensure that we had 12 a systematic approach internally first, to make sure that 13 people would believe that our models are always, you know, 14 current, valid and should be used, and we're implementing at the moment those approaches. 15 16 17 We're also reducing our own burden by collaborating 18 with other states and we've established collaborative 19 platforms that enable us to do that. We actually led the establishment of those platforms and I've been the chair of 20 some of those committees for a while. 21 22 23 And then we need to discuss and engage in a 24 conversation with local districts about the reasons why 25 sometimes they develop their own models or want to 26 replicate some of the work that we've done so that we 27 better understand the drivers and then we can collectively 28 find solutions. 29 I think the reality around the world is that many 30 31 organisations are now struggling to maintain those 32 guidelines, because we've covered the various clinical 33 areas and now it's coming back at us because, you know, 34 some of them are five years old, we need to update them. 35 This is putting a pressure on organisations that in reality 36 should be looking at the future. innovation, and now we're 37 caught at revising what in reality is standardising care, 38 and for us that's not the right balance. We need more time 39 for innovation and to reduce the impost of maintaining -40 the maintenance of those standards, and to be informed by 41 that, we've also been active participants in some international groups that are looking at different ways to 42 43 generate evidence and generate guidelines, as well as 44 national groups that do so, such as the evidence task force 45 that is led at a national level. 46 47 Those are the different ways we've put together to

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make sure that we've got best practice in that space and 1 2 can, you know, rebalance our efforts towards innovation and 3 a bit less towards standardisation. 4 5 Q. If we scroll down, please, to subparagraph h, this refers to streamlining decision-making in government and 6 7 improving links with other government bodies. I want to 8 ask you about a scenario that's a bit closer to home than 9 the big sort of enterprise investment and trade, et cetera. 10 We heard evidence last week from the chief executive 11 12 of a local health district that suggested that the ACI clinical networks should be more involved in providing 13 14 advice before state contracts are negotiated for clinical 15 products. 16 17 We then heard from the chief executive of HealthShare NSW, who said that technical evaluation committees will 18 19 decide if advice is needed from ACI when they're 20 considering entering into a state contract for a clinical 21 product, so that the ACI may or may not be involved 22 depending on what the product is. 23 24 Then subsequently we heard from the chief procurement officer who said that the ACI has a role in monitoring the 25 26 patient outcomes that are related to clinical products that 27 have been procured under state contract. So those are, if 28 you like, three slightly contrasting views in terms of 29 ACI's role, but all highlighting where they see ACI either should or does play a role. 30 31 32 So how would you describe the ACI's role in 33 procurement of clinical products on statewide contracts 34 that are negotiated by HealthShare? By HealthShare? 35 Α. 36 Q. 37 Yes. So currently, our involvement is through providing 38 Α. clinical advice in specific areas when, you know, we have 39 40 to, for example, provide contracts that would impact on our 41 surgeons in the state or when they're contracting devices or instruments that, you know, would have an impact on 42 What we do is that we either mobilise 43 clinical care. 44 a network or we identify clinicians, you know, to be part 45 of those assessment committees, and inform their processes 46 from the clinical perspective, okay? 47

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1 So far, every time we were asked, we provided that 2 support. We've had significant work with HealthShare in 3 the surgical space. We have significant involvement with 4 HealthShare in other areas that relate to disability and 5 the types of procurement that need to be done for people living with disability that may need support - nutrition, 6 7 you know, many areas where there are interventions that 8 really would relate to what is being procured. 9

10 We're not involved in pharmaceutical, which is really 11 under the remit of the Clinical Excellence Commission. And 12 at times what we've done also is to do evidence reviews to 13 really understand also what are the current practices 14 internationally with regards to procurement for some of 15 those and what is the level of evidence about the risks or 16 benefits of changing some of those procurement approaches.

You know, you may want to go to more or less options for certain types of clinicians as part of, you know, the list of products available in the system, and it needs to be based on evidence.

23 So, so far, this is really the way we have supported 24 HealthShare in its work.

26 So, to be clear, that's on an as-needs basis when you Q. 27 are asked for advice. Do you ever offer up advice on some 28 sort of clinical area that you're working on to make 29 HealthShare aware of something so that if they're looking at state contracts, they can take that advice into account? 30 31 I would say this is not an area where we have had Α. 32 proactive work ongoing to be able to, you know, proactively 33 alert them of this, apart from if there's clearly the 34 emergence of a new technology, a new prosthesis, et cetera, 35 then our clinicians are alerting us that, you know, "This 36 is coming", and then we inform HealthShare about that, 37 providing the advice ahead of time. But it remains an ad hoc perspective because it really depends on our 38 39 clinicians identifying those emerging innovations as having 40 an impact on potential procurement activities.

Q. Do you think that ACI should take a more consistent
role in terms of being involved routinely rather than
ad hoc?

A. I think that that's something we could explore.
 There's obviously work implications and potential
 reorientation or reprioritisation of some of the work, if

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we were to do this on a more systematic basis, but that's
 something that we could explore in discussions with
 HealthShare and other partners.

Q. In terms of the monitoring function, once a statewide contract is in place, how does ACI monitor the effects of the clinical products that are being procured this way? A. So I would say that it does that in an indirect way. We're not the organisation in charge of, you know, post marketing or post commercialisation monitoring. But we do have clinical variation work where - and contribution to clinical registries, for example, where the data that we collect would reflect on changes in outcomes and sometimes it can actually be related to a specific procedure or a specific device that is used in certain clinical areas.

17 It is limited. It is not systematic, and it really 18 depends on the current measures that are measured as part 19 of those registries or as part of our clinical variation 20 But certainly, it's not systematic and it's not for work. 21 the purpose of alerting the system that, you know, there 22 would be anything wrong with those medical devices. We track outcomes overall to identify needs for innovation. 23 24 At times, it can be related to specific devices or 25 prostheses, but the purpose is not to monitor, you know, 26 the outcomes of those procurement processes.

Q. And finally, in paragraph 114, your statement ends with the description of the clinical innovation and research division having strong foundation but identifying that there's always room for improvement. Going forward, what are you most optimistic about in terms of innovation for the New South Wales health system?

34 I've written that statement because I'm extremely Α. proud of the work that the teams have done over the last 35 36 few years through the pandemic, really keeping focus on 37 innovation, keeping focus on identifying new ways to work, engaging with very broad and big clinical groups, you know, 38 to ensure that we design things that will harness 39 40 innovation but in a way that fits with clinical practice 41 and clinical expectations.

I believe that there's going to be ongoing
improvements in surgery and value based surgery, and that's
really a key priority program for us and we continue to
push.

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1 I believe that there's going to be massive disruptions 2 coming out of personalised medicine and we're currently 3 working with our clinical networks so that it's not just 4 a responsibility of the genetic, you know, clinical group, 5 it's really something that will impact other clinical areas as well and they need to pay attention to that. 6 7 8 THE COMMISSIONER: Q. What do you mean by "disruptions"? 9 Α. I mean technologies that will suddenly force people to 10 think differently and will challenge the way we provide care at the moment. You know, how do you link a patient 11 with a specific clinical condition - and they may be the 12 13 only one in a hospital that year - to connect them with the 14 right treatment that, you know, may be available somewhere else in the system? That's not the way we work at the 15 16 moment, just to give an example. So personalisation of 17 medicine will have its challenges and we need to work 18 across the different clinical areas and networks to get 19 ready for that. 20 21 Q. Is one of those challenges cost? 22 Cost can be a challenge, of course, because some of Α. 23 those technologies are expensive. Sometimes, they are 24 expensive but we need to compare them with the current 25 investments and sometimes lifelong investments, but those 26 lifelong investments, you understand, will be in many 27 different places, many different cost centres, whilst, as 28 a single technology, there may be a single one, and that's 29 a disruption on its own and we need to support the system to make the right arbitration, but also reorganise the way 30 care is planned and delivered so that sometimes we can make 31 32 those decisions to allocate towards those expensive 33 therapies as well. 34 Commissioner, I have no further questions 35 DR WATERHOUSE: 36 for Dr Levesque. 37 THE COMMISSIONER: 38 Thank you, Dr Waterhouse. Mr Gyles? 39 40 MR GYLES: No, thank you, Commissioner. 41 42 THE COMMISSIONER: All right. Okay. That ends this 43 hearing block, am I right? 44 45 MR MUSTON: Subject to one very small technical matter. 46 Just a couple of housekeeping matters to wrap 47 MR GLOVER:

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1 up, Commissioner. There are some further documents to 2 tender, some of which have been referred to in the evidence. I will hand up a list. They have been given 3 notional markings in the usual way, so I tender those. 4 5 THE COMMISSIONER: Yes. 6 7 8 MR GLOVER: In addition, you should have coming to you now 9 a folder that should have been labelled as "Confidential Exhibits". 10 11 THE COMMISSIONER: Yes. 12 13 MR GLOVER: We seek to tender those and at the same time, 14 there is a proposed order under section 8 of the Special 15 16 Commissions of Inquiry Act. 17 18 THE COMMISSIONER: What does that say? 19 20 MR GLOVER: You will see it now. The redacted portions --21 22 THE COMMISSIONER: Is gives me power to do something, does it? 23 24 25 MR GLOVER: It gives you power to make directions limiting or restricting the publication of evidence or documents 26 that are before you. 27 28 This is all by agreement? 29 THE COMMISSIONER: 30 MR GLOVER: 31 It is. 32 33 THE COMMISSIONER: All right. Well, I will make the order. 34 35 Thank you, Commissioner. MR GLOVER: Nothing further from 36 37 me. 38 THE COMMISSIONER: And I will look at the section later. 39 40 I'm sure it's there. I trust you. 41 MR GLOVER: It is there. I have read it. 42 It says what 43 I said. You have the power. 44 45 THE COMMISSIONER: Excellent. Very good. 46 So I think, formally, we are adjourning until Monday, 47

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1	18 March in Wagga Wagga
2 3	MR GLOVER: Correct.
	THE COMMISSIONER: for the next hearing, subject to giving a bible or taking an affirmation from somebody randomly before that. All right. We will adjourn until then, unless there is anything else. I should say, Professor, thank you very much for your time, it is greatly appreciated.
	THE WITNESS: It was a pleasure, thank you.
	<the td="" withdrew<="" witness=""></the>
	AT 4.10PM THE COMMISSION WAS ADJOURNED TO MONDAY, 18 MARCH 2024 AT 10AM IN WAGGA WAGGA
47	

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