SULAN J	Τ
NO.16/2006	2
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R V ANDRE CHAD PARENZEE	4
	5
WEDNESDAY, 25 OCTOBER 2006	6
	7
RESUMING 10.22 A.M.	8
MS MCDONALD: Just an update in terms of the logistical	9
matters. Overnight, I managed to reschedule Professor	10
Cooper.	11
HIS HONOUR: Yes.	12
MS MCDONALD: For Friday, the 3rd I think it is.	13
That's the second Friday in that two week block. He is	14
no longer slotted in for tomorrow so that gets rid of	15
that problem.	16
The second matter relates to the cross-examination	17
of the two defence witnesses. Overnight we have	18
endeavoured to try and locate as many of the studies	19
that have been referred to, and apparently cited from,	20
during the course of PowerPoint yesterday. We haven't	21
been particularly successful. It's very difficult to	22
locate a lot of them and I've asked my learned friend	23
this morning that the witnesses produce copies of the	24
tests that they rely on for the purpose of their	25
evidence.	26

For example, your Honour will recall yesterday there	27
was reference to two studies in 2006. One of those we	28
can obtain but it will involve a physical trip to the	29
Flinders Library which we obviously haven't been able to	30
do overnight, so we are facing some fairly significant	31
logistical problems in the absence of those studies.	32
What I'm really foreshadowing, it will be my	33
application, when the expert has finished today, not to	34
commence cross-examination until tomorrow morning. Even	35
then it is far from desirable but I would have thought	36
by tomorrow morning we would have cobbled something	37
together so that we can do the respondent's case some	38

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handed in.  I know how long it's taken me to get an understanding of this and your Honour has seen it for the first time yesterday. You would appreciate it's not going to be something that will happen overnight to get this cross-examination ready.  Ms McDonald is going to need to look at some of the background material she has just referred to. That's against the background that both of the defence experts are busy people. I've given them a sort of undertaking, as best I could, that the case would be starting Monday, all Monday, Tuesday and they should be ready to get back to Perth today.  It's a little bit unusual for the defence to be	Justice. I faise it at this stage so that your honour	
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	to Perth today.	23
saying that the prosecution are going to need more time.	It's a little bit unusual for the defence to be	24
	saying that the prosecution are going to need more time.	25

From a practical point of view, both Ms Eleopoulos and

26

Dr Turner would very much like to return to Perth today	27
and then I envisage that we will have to fix then,	28
sometime in the future - November/December - for the	29
cross-examination to take place. That could be done by	30
a video link-up back in Perth.	31
My client's mother is not happy about that. The	32
other important point your Honour raised yesterday, we	33
have got the job of making sure that this is in a proper	34
order for the Full Court, if your Honour gives leave to	35
appeal. By the way, I don't see any reason why you	36
shouldn't sit in that court when you have undertaken	37
this exercise.	38

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	So, given the desire and necessity of having it	Τ
	right for the Full Court and the fact that my friend	2
	will need more time, it would be my application that we	3
	adjourn to a convenient date that we fix to do the job	4
	properly. I don't know what your Honour thinks about	5
	that. Perhaps we could wait until the evidence is	6
	finished. I certainly don't expect her to start	7
	cross-examining today.	8
HIS	HONOUR: Can I say this, and I don't say this with	9
	any criticism of any individual or any of the witnesses:	10
	it's just a bit unfortunate that the material upon which	11
	the witnesses are relying - the underlying material,	12
	that is, the papers etc were not provided but anyway,	13
	that's water under the bridge.	14
MR 1	BORICK: May I just respond to that? It's	15
	important that I do.	16
HIS	HONOUR: Yes.	17
MR 1	BORICK: It was very clear in the affidavits	18
	provided and from the annexures, the outline of	19
	argument, what our basic propositions were. I don't	20
	expect your Honour or my learned friend to fully	21
	appreciate the underlying evidence, all about which you	22
	heard yesterday but it was absolutely clear to the five	23
	expert witnesses employed by the prosecution.	24
	One of the reasons for that is that in 1993 I think	25
	it was, every single bit of information which you've	26

heard yesterday was published in an international	27
scientific journal. They must have known about it. We	28
worked on the assumption that the five experts must have	29
known about this debate which has been raging in the	30
scientific world, not the public world.	31

They knew about it and elected to give advice on the 32 issue of: does HIV cause AIDS, which we never raised, so 33 we worked on an assumption that the experts would have 34 been giving the prosecution the proper advice. At the 35 same time, we were working on our presentation, mainly 36 to get it into my head and to get it in the proper order 37 for your Honour and so it is not fair, in those 38

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circumstances, to suggest that we should have done	1
something earlier.	2
HIS HONOUR: I didn't say that. I just said it was	3
unfortunate that the information wasn't provided. I	4
prefaced my remarks by saying 'I don't make any	5
criticism of you or of your witnesses or of the	6
experts'. It's just unfortunate we have just got to	7
this stage of affairs. It's water under the bridge.	8
MR BORICK: I agree.	9
HIS HONOUR: And we have to get on with it as best we	e 10
can.	11
MR BORICK: The overarching thing is to make this	12
right for the Full Court. I think you agree with that	. 13
HIS HONOUR: Absolutely. We will certainly continue	14
with your evidence and complete all of that and	15
Ms McDonald, once that's completed, perhaps we will	16
revisit the question of where we go from there.	17
MS MCDONALD: Yes.	18
HIS HONOUR: I gather that the material that the	19
doctor is referring to, which was supposed to have been	n 20
supplied to you this morning or overnight, hasn't been	21
supplied to you for one reason or another.	22
MS MCDONALD: No.	23
HIS HONOUR: Do you need it at this stage?	24
MS MCDONALD: No, particularly if I'm not	25
cross-examining today.	26

+VAI	LENDAR FRANCIS TURNER CONTINUING	27
HIS	HONOUR	28
Q.	Dr Turner, can those notes to which you're referring and	29
	those documents to which you're referring that we spoke	30
	about yesterday, where copies were going to be provided	31
	to defence, can that be done when you've completed your	32
	evidence obviously.	33
A.	Certainly I didn't do it because I hadn't finished.	34
Q.	In the system - again I don't say this as any criticism	35
	of you - in the system that we work under, normally all	36
	the material upon which a witness relies is provided to	37
	the other side so that they can study it before you give	38
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	your evidence, rather than after you've given your	1
	evidence, but anyway, be that as it may, if it can be	2
	supplied as soon as possible.	3
A.	Certainly.	4
MR 1	BORICK: I've been trying to explain our system to	5
	the experts.	6
HIS	HONOUR: Put in very plain terms, we don't have	7
	trial by ambush. We have trial by disclosure, so	8
	everything is disclosed beforehand, particularly when	9
	it's expert evidence. Cross-examiners - you're talking	10
	to a lawyer who has to ask you questions. That lawyer	11
	has to get information from some of her experts so she	12
	can ask you some questions. If she hasn't got the	13
	material which you're relying on, it is very difficult.	14
A.	I apologise -	15
HIS	HONOUR: I don't ask you to apologise. I'm just	16
	explaining that that's how it works. So be it. Let's	17
	get on with the presentation and then we will cross the	18
	next bridge when we come to it.	19
+EX	AMINATION BY MR BORICK	20
Q.	You're up to slide 19, I think.	21
A.	I'm actually up to slide 20. With your permission, I'd	22
	just like to start with slide 19, just to remind the	23
	court what I was actually talking about yesterday. The	24
	actual bit we stopped at, that was the notion that, as	25
	on the slide, that the immunologists were quite shocked	26

to find that antibodies that they thought reacted	27
specifically, in fact reacted with many different	28
antigens ostensibly unrelated to one another. The word	29
'promiscuous' is not the word. It is the word used by	30
John Marcionus who wrote the paper at the bottom of the	31
slide. Slide 20. This is some evidence to support the	32
statements that these people have made. This slide is	33
two antibodies, E7 and D23. The M stands for	34
monoclonal. What monoclonal means is that the antibody	35
is all one molecule. I said yesterday in my opening	36
that antibodies are made by B cells. Each B cell and	37
its clones only made one unique antibody molecule so	38

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- these reactions which you can see are in fact multiple. 1 They are not caused by a mixture of antibodies. E7 is 2 just the one molecule and so is D23. You can tell from this slide, unlike a three-pointed star which I showed 4 yesterday, there was no one-to-one relationship between 5 either of the antibodies and the antigens which are 6 listed down the side which are all chemically 7 dissimilar. So, for example, E7 reacts with Actin and 8 also reacts with Myosin and other named antigens here. 9 Q. Before you go on, you've used the expression 'binding' 10 at the top. I'm not sure if you've explained what that 11 meant. 12
- It just means Actin chemically combines. This is what I 13 did yesterday with the fist and the open hand. It's 14 that metaphorically. In this slide I just want to 15 illustrate - slide 21 - I just want to illustrate. 16 Imagine that you're a person doing serology for a living 17 and you come to work one day and you're looking for an 18 antibody to Actin and so you add some serum to Actin in 19 a test tube and you see a reaction and you say 'I found 20 an antibody to Actin' but someone else might come to 2.1 work the next day and find that the antibody also reacts 22 with Renin. Then you find another serum here that 23 reacts with Renin as well, so you can't identify the 24 antibody from what it reacts with. If all this sounds 25 complicated, let me illustrate what I'm talking about 26

with some kitchen chemistry. This is something people	27
could do with their children or grandchildren if they	28
are interested in science. If you add a teaspoon of	29
lemon juice to milk, it curdles and if you add a	30
teaspoon of vinegar to milk, it curdles and it occurs	31
because there is a chemical reaction with those	32
substances. But when you look at curdle, you can't tell	33
which one you added if all you get is curdle. If you	34
turn around and hide and do it without the child seeing	35
and say 'What did I add?', they can't tell you because	36
it reacts with both. That's the point I'm trying to	37
make. This means that just because you find an antibody	38

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in blood that reacts with a particular antigen in	1
testing, does not prove the antigen caused the antibody.	2
There is always room for doubt. Although it does not	3
mean that, sometimes antibodies don't react	4
specifically. They may and if you're setting up an	5
antibody test for something that's highly propitious,	6
the problem is: how do you prove it in any particular	7
case? How do you find out? How do you know? Slide 22,	8
please. I'm going to talk about the problem of proving	9
antibody test specificity. It doesn't have to be an	10
antibody test. It could be any test you dream up. I'm	11
going to talk about the pregnancy test, just to talk	12
about the general problem of how you approach this	13
problem. The pregnancy test happens, coincidentally, to	14
be an antibody test. In the old test it was injecting	15
urine into frogs to see if they ovulated 50 years ago	16
but the same principles apply. Everyone knows it might	17
have been more than 50 years ago. I'm not sure. Every	18
doctor knows and probably every patient knows that	19
pregnancy tests can be misleading. Women who are into	20
advanced pregnancy can have a negative pregnancy test	21
and women who are not pregnant could have a positive	22
pregnancy test and there are situations when a man could	23
have a positive pregnancy test. When you test a woman,	24
there are only four possibilities. She can be pregnant	25
and have a positive test and that's called a true	26

positive and she can be pregnant and have a negative	27
test which is a false negative. She can be not pregnant	28
and have a positive test which is a false positive or	29
she can be not pregnant and have a negative test which	30
is called a true negative and these names on the	31
right-hand side are called the test parameters. There	32
are two factors to appreciate here. In an ideal	33
pregnancy test, all the numbers would fall into 1 and 4.	34
All women who are pregnant would have a positive test	35
and all women who are not pregnant would have a negative	36
test. In the real world, it is different. Sometimes	37
you get two and three which make it less specific. If	38

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	you get a false positive you know the test can't be	1
	specific. The question is: how do you determine these	2
	parameters and thus work out how much trust you can	3
	place in a test? So that brings us to a second factor.	4
	Before we have evaluated the test, we have to have some	5
	method of knowing for sure whether the woman is pregnant	6
	or not and this method must be an independent test and	7
	you can't use a test to test itself. That's cheating,	8
	so we call that independent method the gold standard	9
	because it's going to tell us whether it's true or false	10
	that the woman is pregnant. And it is against this	11
	certain knowledge that we compare our test results and	12
	obtain our numbers, and whatever numbers arise, they can	13
	only be as good as the gold standard and they can only	14
	relate to the gold standards. So we want the most	15
	accurate, unambiguous standards for gold standard as	16
	possible, so we think: what could that be? First up, we	17
	might consider using the woman's clinical state. We all	18
	know that women who are pregnant stop having periods.	19
	They get urinary frequency. They get nausea. They gain	20
	some weight and we might think that is a gold standard	21
	for pregnancy but, sooner or later, that won't work	22
	because these symptoms, even when they occur together,	23
	have multiple causes. Slide 24.	24
HIS	HONOUR	25

26

Q. 24 talks about the gold standard.

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29
30
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CONTINUED

A. Let's go back one slide. Eventually becomes the 1 realisation that the gold standard for a pregnancy test is having a baby or not having a baby. That's what it 3 is, and it is against that that you use - we check our results, basically. That's how we check. So we find 5 out the weight, we find out how many women have babies 6 and who don't have babies and we apply those results and 7 we apply our test results in light of that knowledge. 8 It is independent and unambiguous. Now, the same 9 principle applies to the evaluation of any diagnostic 10 test. You must compare your test with a gold standard 11 that best represents the energy you are testing for. We 12 know the aim in HIV infection is to prove the person is 13 infected with HIV. In this instance we can think of HIV 14 as the baby. So we want a gold standard for HIV 15 infection against which we can find out whether the 16 antibody infection we can see really is caused by HIV 17 and not caused by something else. Now, what can that 18 be, and I put it to your Honour, it can only be HIV. 19 Diagnosing HIV is the reason for doing the test and the 20 only answer for HIV is it is HIV as determined by HIV 21 isolation. However, when we search the literature, it 22 is apparent that experiments comparing HIV antibody 23 tests with HIV isolation have never been reported, and 24 in our view, as was explained yesterday by my colleague 25 Eleni Papadopulos-Eleopulos, it cannot be performed 26

because of all the problems which she raised. Next	27
slide please, which is 24. AIDS HIV experts themselves	28
report and acknowledge there is no gold standard for the	29
HIV antibody tests. Dr William Blattner was a	30
retrovirologist in viral infections of humans.	31
According to him, one difficulty in assaying the	32
specificity and sinsitivity of human retroviruses,	33
including HIV, is the absence of a final gold standard.	34
Slide 25, manufacturers of antibody tests admit there is	35
no gold standard. Here one manufacturer repeatedly	36
includes in the kit packet insert, and they write, 'At	37
present there is no recognised standard for establishing	38

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the presence or absence of HIV-1 antibody in human	1
blood'. I have a copy of the packet insert. I'm not	2
sure whether I should present it to the court or whether	3
it should go in as evidence or what, so please advise	4
me.	5
MR BORICK: Unless there is any objection, I will	6
tender it.	7
MS MCDONALD: No objection.	8
HIS HONOUR: Just give it to my associate. What	9
happens now is it gets a number and it becomes an	10
exhibit in the case.	11
A. Right. Your Honour, it is difficult to find the spot	12
but it is there.	13
HIS HONOUR: The document that is being tendered, do	14
you want to have a look at it, Ms McDonald, at this	15
stage?	16
MS MCDONALD: Not really.	17
EXHIBIT #A7 DOCUMENT ENTITLED HIV-1/HIV-2 HUMAN	18
<pre>IMMUNODEFICIENCY VIRUSES (HIV-1/HIV-2): (RECOMBINANT</pre>	19
ANTIGENS AND SYNTHETIC PEPTIDES) TENDERED BY MR BORICK.	20
ADMITTED.	21
	22
HIS HONOUR	23
Q. If you could find the relevant part to which you are	24
referring of that document once I have marked it.	25
A. Do I do that at the end of my evidence?	26

Q.	Just if you could mark it on the document.	27
A.	It will take me a while to find it right now as well, so	28
	can I actually do that at the end?	29
Q.	Perhaps we will have a morning break later on and you	30
	can do it during the morning break if you like.	31
A.	Slide 26, according to Dr Phillip Mortimer, Director of	32
	the Sexually Transmitted and Blood Borne Virus	33
	Laboratory in the United Kingdom, 'Diagnosis of HIV	34
	infection is based almost entirely on detention of	35
	antibodies to HIV, but there can be misleading	36
	cross-reactions between HIV proteins and antibodies	37
	formed against other proteins, and these may lead to	38

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raise positive reactions. Thus, it may be impossible to	)
relate an antibody response specifically to HIV	2
infection'. So this means if someone has a positive	3
antibody test, according to Dr Mortimer, we can't be	4
sure that it is caused by HIV infection. Slide 27. So	5
there are a number of caveats which I have highlighted	6
on the slide: no recognised standard; absence of a final	. 7
gold standard; misleading cross-reactions; false	8
positive reactions; impossible to relate specifically to	9
HIV infection. Yet, these tests are presented as being	10
extraordinarily accurate.	11
Putting aside HIV for a moment, there are numerous tests	12
that are done for varying diseases. I don't necessarily	13
know all the medical answers but in respect of a number	14
of those tests, they would not be 100% accurate, would	15
they.	16
No.	17
A lot of tests that are conducted are not 100% accurate,	18
are they.	19
No, not even x-rays, as I said yesterday.	20
So all that this has established so far - and please	21
correct me if I am wrong - is that these tests are not	22
100% accurate.	23
No, I'm trying to establish the fact that because	24
antibodies cross-react, it is up to the person who	25
presents these tests to prove their specificity. It	26

Q.

A.

Q.

A.

Q.

A.

could be 100% or it could be no per cent. There has got	27
to be a way of finding out. You can't just make it up.	28
You have to have some data to know that, and to do that	29
you have to have some means of knowing what you are	30
looking for, which is not the test. I mean, maybe I	31
could explain it using another example. In clinical	32
medicine there is a disease called pulmonary embolism	33
where clots in your legs travel to your lungs and may	34
cause you great harm. They may kill you, and the best	35
way to diagnose this condition is to do a pulmonary	36
angiogram. We put die in the pulmonary artery and we	37
look and see if there is clots there. That is a pretty	38

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unkind thing to do with people. It is very invasive and	1
in sick people it can make it worse. There is also lung	2
scanning where you put radioactive material in the lungs	3
where you see from counter-radioactivity in the lungs	4
where there are, in fact, defects which could be caused	5
by a pulmonary embolism. There is a lot of problems	6
with those sorts of tests because you get problems with	7
people with lung disease, for example. They are hard to	8
interpret but the way that they are appraised is someone	9
at some stage has compared them with ordinary	10
angiography. The same is done with coronary artery	11
disease. If you have a middle age male with chest pain	12
and you give him treatment, they put the ECG leads on	13
you and they see if there is some abnormality in the ECG	14
while you are exercising. Then, what you are trying to	15
find out is whether the ECG abnormality that you get	16
when you have a stress test - I assume your Honour knows	17
about this, about stress tests. Not from personal	18
experience, I hope.	19
I think I do, and I think I might know them from	20

- Q. I think I do, and I think I might know them from 20 personal experience. One of the reasons you started 21 later was my personal experience with an angiogram. 22
- A. I've actually had an angiogram and heart surgery myself, 23 so I sympathise, but the ECG abnormality can be caused 24 by all sorts of things which are not necessarily blocked 25 coronary arteries. So this stress testing has, in fact, 26

been validated by the gold standard of actually doing	27
angiograms on people who have had a stress test to find	28
out what abnormality in these tests predict whether you	29
have a blockage or not. So having a coronary angiogram	30
is totally unrelated to having an ECG, which is just	31
recording electrical impulses from your body. There is	32
very little connection. They both involve the heart.	33
That is what I'm trying to get across. In your question	34
about the test being accurate, the test is here and the	35
thing you are trying to find is here. You somehow have	36
to match these up, those four possibilities, and they	37
apply to all tests. All those parameters apply to all	38

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tests, it doesn't matter what the tests are, to see how
                                                             1
good they are. The point that I have just made, I hope,
                                                             2
is that the gold standard for HIV infection is HIV, the
                                                             3
virus test. So, to find out if these antibody tests do,
in fact, detect the virus and how reliable they detect
                                                             5
the virus, if they detect the virus at all, is to
                                                             6
actually do this experiment, and we say that this has
                                                             7
never been reported because of the great problems
                                                             8
reporting it, because of what Eleni
                                                             9
Papadopulos-Eleopulos reported yesterday - slide 28 -
                                                            10
yet, there is this paradox that the HIV experts accept
                                                            11
that the tests are extraordinarily accurate. So there
                                                            12
is a paradox here. What I am saying, or we are saying,
                                                            13
it seems to be very much not what they are saying.
                                                            14
Before we go on to why they believe these tests are able
                                                            15
to diagnose HIV infection, I just want to talk about the
                                                            16
Western blot test itself because it is an important test
                                                            17
because it is a test which is said to confirm reactive
                                                            18
ELISAs. In this country you don't need to be diagnosed
                                                            19
HIV positive, or infected, unless you have a Western
                                                            20
blot test. It is not true in other countries but it is
                                                            2.1
true in Australia. So we are now talking about
                                                            22
particular problems, scientific problems that we believe
                                                            23
are problems with the Western blot itself. Now, this is
                                                            24
a book promoted and actually sold by the Australian
                                                            25
National Reference Laboratory and one of its authors is,
                                                            26
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in fact, the head of that laboratory. In thi	s book	27
there is confusion about the identity of two	of the	28
diagnostically and extremely important - and	that is a	29
quote for that, 'extremely important' - p160	and p160	30
glycoproteins in the Western blot strips. I	think we	31
said yesterday that sometimes the p41, p120 a	nd p160	32
proteins are called glycoproteins because the	у	33
incorporate sugars in their structure. Glyco	is the	34
Greek word for sweet. The next slide, slide	29, in some	35
other part of the book it states that gp41 an	d gp120 are	36
viral antigens that reside in the specific ar	eas of the	37
virion and the gp160 is a precursor being sub	sequently :	38

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cleaned. It is cut up, cut in two, taken apart, if you like, to form gp120 and gp41 and all of those are the 2 structural components of the virus. It is a true gene 3 product. That means it is made by what is called the 4 genetic material of the virus and, therefore, it is a 5 true viral protein. So this is saying there at least 6 are three distinct proteins. That is one part of the 7 book but in another part of the book the authors agree 8 with Pinter, who I think may have been mentioned yesterday, who showed that the p120 and p160 proteins in the Western blot are not different proteins but are 11 composed of three our four subunits of the same 12 proteins, p140, the same protein Montagnier regarded as 13 cellular actin and still regards as cellular actin. The 14 next slide, slide 42, now, these findings Pinter warned 15 that 'Confusion over the identification of these bands 16 has resulted in incorrect conclusions in experimental 17 studies. Similarly, some clinical specimens may have 18 been identified erroneously as seropositive on the 19 assumption that these bands reflected specific 20 reactivity against two distinct viral components and 2.1 fulfilled a criterion for true or probable positivity. 22 The correct identification of these bands will affect 23 the standards to be established by Western blot 24 positivity: it may necessitate the reinterpretation of 25 published results'. What this means, to translate this, 26

	is that whenever a Western blot diagnosis requires two	27
	or more bands, like protein bands, what you actually	28
	have is only one because they are all made up of the	29
	same protein, gp41. So, if the criteria, for example,	30
	in Africa is, say, you need two but it is the same	31
	protein, they you only really have one, not two. The	32
	question one has to ask is: are you really fulfilling	33
	the criteria for a positive test? Slide 31, please.	34
XN		35
Q.	Just before you do that, I don't think anyone has given	36
	us a definition of the word 'virion'.	37
Α.	'Virion' is the fully assembled infectious virus	38

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	virus particle is probably good enough. Now, we are	2
	talking about problems with the Western blot test, the	3
	confirmatory test, and the second question is this is	4
	very important so please forgive me if it is a bit drawn	5
	out. What I have always wanted to know is why should	6
	separating the proteins in the Western blot make the	7
	test specific because that is what basically we are	8
	saying here? The ELISA is not specific. You can't tell	9
	someone they are diagnosed positive by ELISA, you've got	10
	to do the Western blot, and that tells you that you	11
	really are HIV positive. The test is specific. There	12
	are 1,023 possible band patterns that you can make in a	13
	ten band Western blot, and according to the criteria in	14
	Australia, only genuine HIV antibodies are certain	15
	patterns and antibodies which are non-genuine don't make	16
	the same patterns but do make others. For example, the	17
	Western blot on the left does not give a positive test.	18
	It has only got three bands and it leads to one of these	19
	and it hasn't got it.	20
HIS	HONOUR	21
Q.	It needs p41, p120 or p160, doesn't it.	22
A.	It does, correct. So it is not positive, and according	23
	to the experts, in most cases these bands are not caused	24
	by HIV antibodies but when you add a band, p120, for	25
	example, this test is positive. So my question is: how	26

particle. That is the book definition. It means the 1

	is it that in the right strip the p24, p55 and p32	27
	antibodies are caused by HIV and in the left strip they	28
	are not? If non-HIV antibodies can cause the bands in	29
	the left-hand strip, why can't the gp120 band also be	30
	caused by non-HIV antibodies?	31
CO	NTINUED	32
		33
		34
		35
		36
		37
		38

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HIS HONOUR 1

Q.	That assumes, doesn't it, that p32, p55 and p24 are not	2
	caused by HIV, that's the assumption you've made. That	3
	may be a wrong assumption. For some reason or other,	4
	and I'm not sure of the science at the moment, it's been	5
	determined that in Australia you have to have p160, or	6
	p41 with three others, I think -	7
Α.	That's correct.	8
2.	- before a medical practitioner will say that the person	9
	is HIV positive, but the fact that you don't have pl20	10
	but you have three of the others, it doesn't follow that	11
	they are not caused by HIV; does it.	12
Α.	Well, that's exactly - you're sort of putting this	13
	proposition in a slightly different way from what I've	14
	putting it. What I'm saying is, look, on the left there	15
	is indeterminate and these antibodies, the experts tell	16
	us in most cases are not caused by HIV. Let's assume in	17
	this case they are not, for the sake of argument. On	18
	the right-hand side the same antibodies are caused by	19
	HIV because there is a p120 there. Now, I want to know	20
	how they know that. That is the question I'm asking.	21
	In fact, in 1994 I wrote - this concerned me because I	22
	said we deal with these needle-stick injuries and all	23
	the antibody tests. I want to know - I'm going to get	24
	to the fact that these criteria are different in other	25

countries, let's stick to Australia for the moment. I

26

want to know how they know that these criteria in	27
Australia, in certain patterns are due to genuine HIV	28
antibodies and in other cases they are not. That was my	29
question. If you're mathematically inclined there are	30
about 600 different ways that you can get a positive	31
antibody test using these criteria, okay. Each of those	32
in fact is a different result. You can even say it's a	33
different test. I want to know how do they know this.	34
It might be true, I want to know how they know. I wrote	35
to the Medical Journal of Australia and I asked this	36
question, I put a slightly different example but I put	37
the same matter that I'm putting to you now: how do you	3.8

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know this Dr Dax. How do you know this? How do you
                                                             1
know Mr Editor of the Medical Journal of Australia? The
                                                             2
letter that was published, and you only have to read
                                                             3
those letters, there was no answer to this question.
The letter that was written back to me basically
                                                             5
described how it's done and talked about the bands but
                                                             6
it did not answer the question. Because I have thought
                                                             7
I might be a bit paranoid, I asked one of my senior
                                                             8
colleagues to read this letter and tell me 'What do you
think?' and he said 'They didn't answer your question',
                                                            10
so I still don't know. They haven't explained it. But
                                                            11
a few years after this, I tried to reopen the matter by
                                                            12
writing to the Medical Journal of Australia again but I
                                                            13
couldn't get past the editorial desk, except recently
                                                            14
I've written a letter to my own college journal, the
                                                            15
Journal of Emergency Medicine about something similar in
                                                            16
relation to the so-called explosive epidemic of HIV in
                                                            17
New Guinea and I asked 'How have you proven that the
                                                            18
tests you use are specific for HIV?' and the answer I
                                                            19
got back from the Queensland HIV expert again completely
                                                            20
avoided answering the question. I mean, I haven't got
                                                            2.1
copies of this on me, but these are published papers.
                                                            22
Now, the other thing is that I've said 'Why can't that
                                                            23
pl20 band be non-HIV as well as the three others? In
                                                            24
this instance I'm asking that question. Why? How do
                                                            25
you know it can't? Because I know they haven't used a
                                                            26
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gold standard HIV to check it because there is nothing	27
in the literature on that, I know that. At the very	28
beginning of my presentation I said, and I asked your	29
Honour to remember respectfully, I hope, that AIDS	30
patients had two things. They have high levels of	31
antibodies in general and they have auto-antibodies.	32
High levels of antibodies are typical of AIDS patients.	33
In fact, high levels of antibodies are typical in people	34
with HIV who don't have AIDS. In fact, someone with HIV	35
who is tested it is picked up where their total level of	36
antibodies is measured and someone does HIV because it	37
is known that they are associated. Liver function tests	38

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often include the level of antibodies in your blood and sometimes that happens. In fact, I have a slightly 2 raised total antibody level in my blood which I'm not 3 worrying about, by the way, but it does happen. We know, we present evidence that antibodies have 5 cross-reaction, that antibodies react with multiple 6 antigens, that is just a fact of nature and it stands to 7 reason that the more antibodies you have, additional 8 antibodies you have the more chance this will happen. 9 In fact, it's known that the level of antibodies - there 10 is a paper somewhere in the paediatric literature that 11 you can predict that with 94% accuracy who is going to 12 be HIV positive based on the level of antibodies, so it 13 stands to reason that the more antibodies you have the 14 more likely it is you're going to get cross-reactions. 15 So that's part of the argument that makes me think it 16 may be more likely than not that these antibodies that 17 react in the Western blot test are in fact non-HIV. Why 18 can't all the antibodies that react in the HIV test be 19 non-HIV? What is to stop it and how do they know that 20 they are not? Slide 32, please. The third issue of the 2.1 Western blot involves a little bit of history, and that 22 is originally in most cases before 1987 a single p41 or 23 p24 band, or both, was considered confirmatory proof of 24 HIV infection. For example, in 1985 four Australian 25 women undergoing artificial insemination who reported to 26

have become HIV infected from donor semen from an HIV	27
positive male. The basis of their HIV diagnosis was one	28
or two of these particular bands. Nowadays these	29
Western blot bands would not be reported positive. Now,	30
there have been a lot of people diagnosed HIV infected	31
on the basis of these criteria in the past. By about	32
1987 most haemophiliacs had been tested for HIV on that	33
basis, and certainly gay men, and I don't know how many,	34
but that's what was done pre-1987. And so one might ask	35
should these people all be retested? We, in fact, wrote	36
to the Lancet about the case of the four women who	37
underwent artificial insemination trying to find out -	38

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bringing up this very point, should they in fact be 1 retested and after a great deal of time we had a letter 2 published in which we put this point and the people 3 concerned in Sydney replied that they had managed to retest one woman and they considered that she was 5 genuinely positive but the fate of the other three at 6 the moment we don't know. They said they were going to 7 write a report about it, in their letter they wrote that 8 they were going to write a letter but that report, we 9 haven't been able to find, we may have missed it but we 10 keep a pretty close eye on these things. One or two 11 bands was enough before 1987. Then it was discovered 12 that about 40% of people have at least one Western blot 13 band and most often a p24 band with or without other 14 bands and obviously 40% of people could not have HIV 15 infection. So HIV experts solved this problem by 16 arbitrarily increasing the number of bands and 17 designating particular band patterns as HIV positive. 18 That's what I was trying to find out by writing to 19 Dr Dax. The issue is - sorry to be so longwinded but 20 what is this issue about? The issue is the testing 2.1 authorities have designed a Western blot in many 22 different ways, so much so that the criteria varied 23 between laboratories, institutions and countries. So 24 much so that a person testing positive under one set of 25 criteria may not test positive under another. Can I 26

	have slide 33, please. Here are some of the several	27
	major jurisdictions that have published criteria for a	28
	positive Western blot test and nowadays the	29
	manufacturers have also provided their own criteria. Do	30
	I have to read that?	31
HIS	HONOUR	32
Q.	No, you don't have to read it. I have got a copy of it,	33
	slide 33.	34
Α.	Slide 34, please. I apologise this looks a bit	35
	complicated but I will explain it. Here are the	36
	criteria for each of the jurisdictions.	37
Q.	I think I have worked it out.	38

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A. Good.

Q.	It seems that a	above the lines p41, p120, p160, below the	2
	lines the other	rs. Self-explanatory, isn't it, that some	3
	jurisdictions 1	require two above the line or three above	4
	the line or two	o or three above the line, some only	Ē
	require one abo	ove the line and there are variables as to	6
	what's required	d below the line.	7
MR I	BORICK:	You might need a little bit more	8
	explanation as	to the meaning of 'GAG', 'POL' and 'ENV'.	9
HIS	HONOUR:	I have a basic understanding of that	10
	chart.		11

A. I did mention earlier on that I had grouped the Western 12 blots according to the - I have grouped these, for 13 convenience, to illustrate this diagrams according to 14 which genes are said to produce these proteins rather 15 than the electrophoretic orders. The names don't really 16 matter. 'N' stands for 'envelope', so that's what that 17 explanation is. So I just want to point out that in 18 Africa in relation the left-most column you need to have 19 two of the protein bands, plus I'm just talking about 20 the unique proteins bands. Can you see this varies as 2.1 well. Down here is under the line. For example, under 22 the FDA criteria, it is said to be - according to 23 Dr Dax's books, the FDA criteria that is most specific 24 in the world and they actually, because they actually 25 specify which band there is no choice, it's got to be 26

	that one and that one you don't have a choice.	4/
Q.	p32 and p24.	28
A.	And p24. But the CDC criteria are the most often used,	29
	which means that in the US people aren't diagnosed using	30
	the most specific criteria. These are less specific,	31
	I'm using 'specific' loosely here. I'm really quoting	32
	what they say in their book. In the right-most column	33
	this is in fact the Multi AIDS Centre, AIDS Cohort Study	34
	of 5,000 gay men, that's been in progress since 1985 and	35
	it's ongoing. Up to 1990 just one strong band was in	36
	fact considered proof of HIV infection. Next slide	37
	please.	38

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XN		1
Q.	Before you do that, just give us a brief understanding	2
	of the expression 'cohort study'.	3
Α.	Cohort study is where you have a group of people,	4
	usually of a similar problem, in which you define in	5
	certain ways and then you see what happens to them. I	6
	mean, it could be a Western Australia football team.	7
Q.	You don't want to mention that around this town.	8
Α.	I'm sorry. Can I have slide 34, please.	9
HIS	HONOUR	10
Q.	35.	11
Α.	No, I'm sorry, go back one. So in this slide - this	12
	slide has two Western blot bands which was the pre-1987	13
	and this still applies in some jurisdictions and it	14
	would be positive in the jurisdictions indicated by the	15
	flashing star but not by the other jurisdictions. If we	16
	go to slide -	17
Q.	The ones flashing won't come up on the photostat.	18
A.	It actually has a slightly different, I think it's a	19
	colour, isn't it.	20
Q.	The ones flashing are US centres for disease control, US	21
	Retrovirology Consortium and Germany.	22
A.	Yes. Slide 36, this is just a similar illustration of	23
	Western blot test which would be positive in Australia.	24
Q.	So the flashing ones are Australia -	25
Α.	The US Red Cross and Germany. HIV experts responded to	26

these different Western blot criteria in two different	27
ways, because they are fully aware of them. The first	28
they claim that many people, I don't know how many,	29
because we can't find this data, had many bands and so	30
they would be positive under most or some or many	31
jurisdictions. So, I do not know why they say that.	32
It's true, I'm sure it's true. I do not know what we	33
are supposed to make of that. If it is the case then	34
why are there different criteria? There are different	35
criteria, they are not our criteria, someone made them	36
up.	37

38

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HIS	HONOUR			1

Q.	I suspect they are different criteria for the same	2
	reason as there are different speed limits between	3
	States of Australia. Different governments set the	4
	criteria or different organisations advising governments	5
	or advising whoever sets the criteria in different	6
	places set it. I assume that's the reason.	7
A.	Your Honour, in my view it is the virus that determines	8
	what antibodies form. It is not committees. I don't	9
	see how committees can set any patterns of antibodies to	10
	say there is a virus. They might set them and say	11
	'Okay, let's see how true these are against the virus'	12
	but it's the virus that determines what antibodies form.	13
Q.	That's a circular debate, isn't it, that you're entering	14
	into.	15
A.	With respect, I don't think it is a circular debate. If	16
	you're infected with a virus, the virus and your immune	17
	system interact. There is no committees involved in	18
	that.	19
Q.	There are always going to be certain criteria set for	20
	any diagnosis that certain things have to - there have	21
	to be certain positive results before someone might	22
	diagnose a particular disease and they may vary from	23
	country to country; maybe not. Put aside AIDS for the	24
	moment. Someone may diagnose measles in Australia but	25
	there may be different criteria for diagnosing measles	26

	in Indonesia. I'm just taking measles as an example, it	27
	may be a bad example, but someone has to set some	28
	criteria before you determine, before you make a	29
	diagnostic decision that something exists.	30
A.	But that's true in clinical medicine.	31
Q.	And different countries will set different criteria.	32
A.	You're right. Different countries do set different	33
	criteria for these tests, but the question remains is:	34
	how do they know that those criteria reflect viral	35
	infection. These are criteria - when you put to me that	36
	they have been set by different countries and different	37
	institutions, I accept that they have been set, but what	38

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I want to know is, is what they have set correct? How	w 1
do they know? You just can't make it up. If you make	e 2
it up and you say 'Well, try these ones out and see ho	ow 3
it goes', you have to have some yardstick for knowing	4
where it goes.	5
Q. I understand that and perhaps that's where this debate	e 6
takes place. But the fact that different countries ha	ave 7
different criteria doesn't really establish the	8
argument, does it.	9
MR BORICK: With respect, I think your Honour has	10
missed the fundamental point.	11
HIS HONOUR: I'm asking the witness for a response.	12
MR BORICK: Let me respond.	13
HIS HONOUR: I'm asking the witness. You can tell r	me 14
in due course. I want to hear what the witness has go	ot 15
to say.	16
A. Can you put the question to me again?	17
HIS HONOUR	18
Q. I said just because countries set different criteria	it 19
begs the point, doesn't it, that doesn't establish	20
anything.	21
A. Well, the reason that you do the tests is to diagnose	22
HIV infection.	23
Q. Yes, but the only point I'm making, I - well, I hope	1 24
understand the basic argument that you're putting, but	25
the only question I'm putting to you is just because	26

	different countries set different criteria, before that	27
	country would recognise a particular condition isn't a	28
	reason to say, well, you can't say what the condition is	29
	or you can't say that there is a condition.	30
Α.	Well, if you set the criteria in Australia as X and if	31
	you fulfil the criteria, yes, you can say that they have	32
	got X. You can say by your criteria, that's true. I	33
	agree with that. And if it's different, if it's Y	34
	somewhere else, then you can say the same thing, but the	35
	question is: is it true what they're actually measuring	36
	is HIV infection?	37
		38

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Q.	I understand that's where the debate is. The only point	1
	I was making is the fact that different countries have	2
	different criteria doesn't really establish anything.	3
A.	Well, it does establish - it establishes the fact that	4
	if you go to one country, you can be positive in that	5
	country and not positive in another.	6
Q.	Yes, it certainly does.	7
A.	I don't think - that was my second point.	8
Q.	But that's not unique to HIV, is it.	9
A.	Well, I think it is.	10
Q.	I'm not a medical expert but are there not other	11
	conditions where countries would set different	12
	standards.	13
MR I	BORICK: Excuse me, your Honour. The point was	14
	being made repeatedly: you can't have different criteria	15
	for babies or, for that matter, death. You've got a	16
	baby in one country, you've got a baby anywhere in the	17
	whole world. It's always going to be a baby. You can't	18
	set different criteria for a virus like HIV.	19
HIS	HONOUR	20
Q.	I'm just asking a question. Are there not other	21
	diseases where there are different criteria in different	22
	countries.	23
A.	I'm just trying to think of one and I am trying to think	24
	of one because I'm clinically quite experienced. I can	25
	tell you that there is a certain criteria for diagnosing	26

	rheumatic fever. When you get into clinical, it's more	27
	murky and the Jones criteria for diagnosing rheumatic	28
	fever are the same all over the world. If you have a	29
	heart attack in New York, there are certain ECG	30
	abnormalities that tell the doctor that you've had a	31
	heart attack. They are the same in Australia. It's	32
	globally transportable. So I mean, I accept your	33
	argument that there are -	34
Q.	It's not an argument. It's a question.	35
A.	I accept your question that there are different criteria	36
	set by different regulatory authorities and they are	37
	trying to diagnose the same thing. Don't forget these	38

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tests, you know, a particular manufacturer's test will	1
be used all over the world. These are not due to	2
variations in test kits, okay? So I think the criteria	3
- the fact that the criteria are different is	4
significant because you can be diagnosed with the same	5
virus or not diagnosed with the same virus according to	6
which laboratory you're tested in. I was trying to	7
suggest the response of the different - there were two	8
points I was trying to make. One was that they say that	9
because many people have lots of bands in the Western	10
world, it's academic but my response to that is: why are	11
there different criteria? Why not just have all the	12
same criteria and my second point is that they say the	13
differences are slight. You can argue that having one,	14
two or one is a slight difference but that slight	15
difference is not slight when you consider that a person	16
can be HIV positive in one country or jurisdiction and	17
not another. To me, that is not a slight difference.	18
The other point I'd like to make is that how can you say	19
they are extraordinarily accurate when results depend on	20
which laboratory does the tests? May I move on?	21
Yes, certainly.	22
Slide 32. The implications for this - and this sort of	23
relates to the previous slide - this is a bit of	24
speculation and I hope - if you don't want me to	25
speculate then please tell me - but it is important to	26

Q.

A.

my argument that if 1% of Australians have a reactive	27
ELISA, that's about 200,000 and they are not infected	28
and 8 million with a one band Western blot test and they	29
are not infected, we know in Australia the HIV infection	30
rate is about .1% so pick someone off the street at	31
random. About 1 in 12,000 Australians are HIV positive	32
which means they have four or more bands according to	33
our criteria. It's difficult to imagine that some	34
Australians - some number between 8 million and 20,000	35
don't have two or three band Western blot tests and I'm	36
reverting to the previous argument that some of these	37
people would be - not all - and I don't know how many	38

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because I've got question marks on the slide but some of	1
them may be in fact positive by the criteria of other	2
countries or institutions. The question arises: this	3
has some logical questions to ask. Would overseas	4
public health authorities regard such figures - would	5
they regard them at risk of transmitting HIV? Would	6
they recommend they be treated for HIV? On the other	7
hand, how do Australian health authorities rate people	8
positive in New York City but who come here? I don't	9
know the answers to these questions but these are	10
questions one can ask because they are different	11
criteria for measuring the same thing. What if someone	12
wishes to emigrate? Whose criteria do you use? Can I	13
have the next slide, please, 38? To add further	14
confusion to the Western blot, nowadays the national	15
reference laboratories - sorry, these are the Australian	16
criteria which I've written out here from the book.	17
'Positive: the presence of the glycoprotein (envelope)	18
band plus three other viral specific bands, or now some	19
laboratories use the band combinations specified by the	20
manufacturer as their interpretation criteria'. That's	21
with the blessing of the national reference laboratory.	22
But when you read the packet insert of Glen labs, there	23
is one approved manufacturer. Their advice is to follow	24
local regulations. Although they do provide their own	25
criteria, they are such they need - their criteria	26

include two of these bands which would mean that some	27
Australian positives would have to be downgraded. I	28
don't know about you, your Honour, but I in fact find	29
this quite confusing. There is even more confusion -	30
next slide 39 - the national reference laboratory book	31
states 'Confirmatory tests for HIV antibodies to	32
HIV'. In other words, they are saying the same thing as	33
Philip Mortimer and they give reasons why this may	34
happen which include high levels of antibodies in	35
general parasitic diseases which are common in Africa,	36
other infective agents which are unspecified and	37
antibodies and they mention pregnancy and syphilis.	38

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	Perhaps we can understand why the UK expert Dr Philip	1
	Mortimer said Western blot detection of HIV antibodies	2
	began, and should have remained, a research tool. In	3
	fact in England, where Dr Mortimer holds sway, they	4
	don't use the Western blot at all.	5
HIS	HONOUR	6
Q.	What do they do in England.	7
A.	In England, they do an ELISA test. They just repeat the	8
	ELISA. I'm not sure whether it's two or three test kits	9
	and if they are concordant, they say the person is HIV	10
	positive.	11
Q.	That's less specific, isn't it.	12
A.	I'm going to argue that - I'm going to agree with you	13
	and present that a little later on in regard to the	14
	Western blot. Next slide, slide 40. I stress that	15
	nowhere in the scientific literature are there reports	16
	of HIV itself being used to define the true infection	17
	status of persons validating the HIV antibody tests.	18
	Needing something in place of HIV; someone to act as the	19
	baby, for my example, HIV, experts have resorted to	20
	certain de facto standards for HIV which are, in my	21
	view, unscientific. In the Constantine book, which I	22
	showed earlier, addressing this issue, one reads that	23
	the true infection status has been determined by	24
	'Clinical status culture etc.'. By 'clinical status' it	25
	means AIDS. Remember we are using something as a	26

stand-in for HIV and by AIDS is meant one or more of 30	27
diseases said to define AIDS. You could use clinical	28
status to define HIV if and only if you have proof that	29
HIV is the only cause of those diseases. There are	30
approximately 30 different diseases in the AIDS-defining	31
list and they all pre-existed AIDS. They all have	32
causes other than HIV. For example, tuberculosis, the	33
commonest AIDS-defining AIDS disease in the world and	34
it's not all caused by HIV, so you can't use AIDS as a	35
gold standard for HIV because those diseases have	36
multiple causes. On the other hand, if you choose to	37
use AIDS as a gold standard, then you're stuck with the	38

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	gold standard that you choose to use and you can't unuse	
	it halfway through the experiments and you create a very	2
	big problem. Since the vast majority of individuals who	3
	test positive in the world don't have AIDS, in fact many	4
	are healthy, you have to conclude - that includes	5
	Mr Parenzee - you have to conclude that like the women	6
	who test positive for a pregnancy but don't actually	7
	have a baby, that the vast majority of HIV tests are	8
	false positives. Is that clear, your Honour or should I	9
	repeat it?	10
Q.	I think it's clear to me. What you're saying basically	11
	is that because the majority of people who test positive	12
	for HIV, under the various standards we have looked at,	13
	don't actually have AIDS -	14
Α.	If you use AIDS as a gold standard.	15
Q.	If you use AIDS as your gold standard.	16
Α.	If you use a clinical syndrome, that is the disease -	17
Q.	Then you've got a whole lot of false positives.	18
A.	They must be false positives because you're stuck with	19
	the gold standards you choose to use which is not a gold	20
	standard because those diseases are not all caused by	21
	HIV anyhow, so the second way the true infection status	22
	has been determined -	23
XN		24
Q.	The expression 'culture etc', what do you interpret that	25

to mean, particularly the use of the expression 'etc.',

	in the textbook.	27
A.	Well, I'm surprised that the word 'etc.' - this is	28
	serious business. This is all about: how do you prove	29
	these tests are specific? Let's make no bones about it	30
	and in a textbook called 'Retroviral Testing and Quality	31
	Assurance', how you can actually put 'etc.', as a means	32
	of determining true infection status is totally beyond	33
	me. I do not understand it. Scientifically it doesn't	34
	tell you anything, the word 'etc.'. It doesn't convey	35
	anything you can put your hands on.	36
Q.	In the context of it, what do you understand 'culture'	37
	to mean.	38

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- A. 'Culture' is the second there are three ways that they
  - say you can determine true infection status. One is 2
  - clinical status AIDS which I've just dealt with. 3
  - The second is culture and the third one is 'etc.'. They
  - are the only two. 5

7

11

13

20

26

Q. But 'culture' itself, what do you think they mean by 6

that.

- By 'culture', they mean detecting an antibody to I can
- explain. By 'culture' these days they mean detection of
  - P24 in a tissue, in a culture of cells from AIDS' 10
  - patients. That's what they mean.
- Q. I want to make that clear. They are not talking about 12
  - 'culture' in the sense of a group of gay men etc.
- A. No, definitely not. They don't mean that at all. They 14
  - mean cell culture. The question is, as I said earlier, 15
    - that when you have the gold standard, it has to be 16
    - independent. You can't test a cell. In an antibody -17
    - what I want to point out is that the culture test, you 18
    - take an antibody to P24. That's manufactured. It's 19
    - made I don't know how it's made. It's made by
    - technology companies and it's in a test kit, an 2.1
    - antibody, and you react it with culture and this 22
    - antibody is directed against the P24 protein that is 23
    - said to be HIV specific which we argue is not but is 24
    - said to be HIV specific and if you get a reaction, 25
    - that's called 'culture'. It's sometimes 'isolation' as

		well. By HIV isolation nowadays, that is what is meant	27
		but it's the same reaction as in an antibody test. It's	28
		just the order in which you add the agents. In an	29
		antibody test you have the antigen here (INDICATES).	30
		You add the antibody in the serum and they combine. In	31
		the culture test, you have the antibody in the test kit	32
		and you add the culture to the protein and they react to	33
		the culture but it's the same reaction; same antibody,	34
		same antigen, so they are not independent. So you'd	35
		expect it to happen. You can't use it. That's my	36
		point. The next slide -	37
Ç	<b>)</b> .	41.	38

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A. As I said, the word 'etc.', doesn't mean very much. It 1 means nothing but we could use it to apply to another 2 method put forward in the late 1980s by Burke and his 3 colleagues. Colonel Don Burke tested 1.4 million military recruits in a paper which many regard as 5 putting the Western blot test on the map and proving 6 that it is extremely specific. Burke chose 7 approximately 135,000 young soldiers whose average age, 8 from memory, was around 17-20, who were healthy and they came from parts of the United States that for all 10 intents and purposes had no AIDS; extremely low risk. 11 Having defined an antibody test on the basis of two 12 ELISAS and two Western blot tests which is one more than 13 we use in Australia. Now most people would have 14 regarded these men as being false positives because of 15 what I said: young, fit, healthy, came from parts of the 16 US where there was no doubt no AIDS but Burke thought 17 otherwise. So he had to find out whether they were 18 truly infected. That's what he needed to know. He 19 needed to know whether the soldiers who reacted like 20 this were actually really infected. So what he did was 2.1 he actually repeated - he did four more tests on the 22 soldiers who were already positive - four more - and if 23 they were positive on the four extra tests, two of those 24 tests were Western blot tests and two other tests were 25 similar to the Western blot tests and if they were 26

	positive on all eight tests, he said they were all truly	27
	infected and if they weren't positive on the extra four	28
	tests, he said they were truly HIV non-infective and	29
	this is published in a leading journal of medicine.	30
Q.	Can you explain the 'X'.	31
Α.	It means extra. Four times Western blot so they added	32
	four other tests. He already had four antibody tests,	33
	two ELISA, two Western blots, so they did two more	34
	Western blots and two more tests like the Western blot,	35
	so there were four extra tests on those soldiers. If	36
	they were positive on all eight tests, then they were	37
	truly infected. If they weren't, they were truly not	38

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infected. That was his reason. What this means is	1
their gold standard for finding out whether someone was	2
truly infected was to repeat the test. That was a way	3
of distinguishing between true and false HIV anyway. I	4
believe this is wrong. If the test can be positive for	5
more than one reason, repeating the test will not	6
resolve that ambiguity. Slide 42. To illustrate, this	7
is a photograph of a test from flowers and the basis of	8
the test is a reaction between light and coloured	9
pigments in a piece of celluloid and real flowers and	10
coloured flowers produce the same picture. You can't	11
tell from that picture if they are real or artificial.	12
Next slide, 43. If you repeat the test, you still can't	13
tell. You can repeat it 1,000 times and you still can't	14
tell. If you repeat the test and it's negative, you	15
still can't tell. Next slide. Hence whatever the	16
antibodies in Burke's soldiers were, HIV or not HIV,	17
they were the same antibodies, no matter how many times	18
the test is repeated. Repeating the test is not a gold	19
standard for determining the specificity of an antibody	20
test. In 1993, we wrote a paper in Nature Biotechnology	21
which included many things. It included most of the	22
evidence which has been presented yesterday and what I'm	23
talking about now.	24

CONTINUED 25

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	Including an analysis of the study by Burke, and we	1
	criticised it, and Biotechnology is a very international	2
	journal. It is available in immunology departments. In	3
	fact, it was available in the Immunology Department of	4
	the Royal Adelaide Hospital when we wrote it because we	5
	saw it there at the time we published it but no-one	6
	every wrote to the editor to counteract our claims, to	7
	criticise, to defend Burke's method of repeating the	8
	test, and this is editorialised. Burke's paper was	9
	editorialised in the Journal of Medicine and they stated	10
	that he had repeated the test to determine the	11
	specificity, which is wrong, but it did more or less put	12
	HIV antibody testing on the map because he said it was	13
	99.9993%, approximately, was the word, distinct. So, it	14
	is our view that the specificity of the antibody tests -	15
HIS	HONOUR	16
Q.	If he was performing exactly the same sort of tests on	17
	all these people, he would have got exactly the same	18
	results on all of them, wouldn't he.	19
A.	No, not everyone reacts in a test.	20
Q.	Then there might be some basis upon which he can, by	21
	repeating the test, bring down the numbers to a point	22
	where, 'If it comes up positive on eight occasions, then	23
	I can be satisfied. If it doesn't come up positive on	24
	eight occasions, I'm not satisfied'.	25
Α.	Well, if it comes up positive on eight occasions, you	26

can see that the person had antibodies that reacted in	27
those eight tests. You were uncertain when you did four	28
tests because that's why you did another four. It is	29
the same antibodies. How does that tell you - that	30
can't tell you what the antibodies are. It can't tell	31
you that they are HIV antibodies. They weren't non-HIV	32
antibodies all the time. As I said, Gallo, for example,	33
who is very famous in this business, when he did studies	34
like this he said people in these low risk groups were	35
false positives. That's how he conducted his affairs in	36
those days. He used healthy blood donors. So, they	37
don't agree with each other, and I disagree that you can	38

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actually specify where the antibody came from, what made	1
it, but repeating the test and getting the same result	2
that time - I have patients who have had a funny looking	3
lesion on a chest X-ray and I think it might be TB, or I	4
think it might be lung cancer - this has happened to	5
me - and I can repeat the test - what happens is they go	6
to a peripheral hospital, the resident sees them,	7
someone loses the X-ray, they come to the main hospital	8
and someone x-rays them again and they lose that X-ray	9
and this patient may end up having four x-rays because	10
they eventually all get found and have them all over	11
again and they all look the same. It doesn't tell me	12
what it is. We have got to the stage where we have	13
asserted that because of the lack of gold standard	14
comparisons, we can't accept that the antibody tests	15
have been proven or specific which leaves one in a bit	16
of a vacuum because these patients do have antibodies	17
that react in those tests. So, one may reasonably ask	18
if they are not a retrovirus, where do they come from?	19
There are three possible reasons. The first is that	20
AIDS patients have diseases such asmicro bacterial and	21
fungal disease. Tuberculosis, for example, is caused by	22
a microbacteria, as is leprosy. They are a	23
micro-related bacteria. In fact, micro-bacterial and	24
fungal diseases constitute a fair proportion of AIDS	25
diagnoses.	26

XN		27
Q.	Just interrupting you there, are you wanting slide 46	28
	now.	29
A.	No, not yet. Now, it is known, there is lots of	30
	evidence in the literature, that antibodies that form a	31
	response to micro-bacteria and fungal antigens, that is	32
	the biochemical constituents of which they are composed,	33
	the proteins, for example, react with the proteins in	34
	the HIV antibody test, including in the Western blot.	35
	Now I'll have that slide 46, please. Now, these are	36
	real Western blot strips on real people and there are a	37
	serious of Western blots performed on leprosy patients	38

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and their contacts from Africa. They are taken from a 1 paper published by one of the most famous world leading 2 HIV researchers from Harvard University, Myron Essex. 3 Now, leprosy is a disease caused by a micro-bacteria 4 which I said is closely related to the organism which 5 causes tuberculosis. According to the World Health 6 Organisation, the criteria for a Western blot in Africa, 7 you need two glycoprotein bands, and if you look at the 8 first three strips, there is gp120 and there is gp41. 9 They don't reproduce that well but that's what Dr Essex 10 is telling us and so I will accept it. Now, the first 11 three of these bands are ones that control and that is 12 just one that is known to have these bands. That is to 13 make sure the test is working. And these are two 14 leprosy patients said to be HIV infected because they 15 have got two glycoprotein bands. There is also 16 other 16 strips in this Western blot which are leprosy patients 17 and their contacts, and none of the 16 others are HIV 18 positive because they don't have two glycoprotein bands, 19 which is known to be positive in Africa. Yet, based on 20 the Australian criteria, which are the most stringent in 2.1 the world, if these individuals were tested in Australia 22 they wouldn't be positive. The authors of this paper 23 concluded - and I will have to read this - HIV ELISA and 24 Western blot is how it should be interpreted with 25 caution and screen individuals affected with 26

micro-bacterial tuberculosis or other micro-bacterial	27
species. ELISA and Western blot may not be sufficient	28
for HIV diagnosis in AIDS endemic areas of central	29
Africa where the prevalence of micro-bacterial diseases	30
is quite high. So, this paper is very significant. The	31
majority of AIDS patient in the world are TB patients	32
and they are said to be AIDS patient because they have	33
had a positive test, yet according to Essex, these tests	34
on these patients are not sufficient to prove HIV	35
infection. Then, Mr Parenzee was born in South Africa	36
and he lived there until he was 15 years old, and in	37
South Africa there are approximately a quarter of a	38

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million new cases of tuberculosis and this represents	1
only a fraction of people that have been exposed to the	2
bacteria that causes TB. They don't know what fraction	3
but it is probably only a few per cent. No-one can find	4
out in the exact number but if you talk to doctors who	5
come from Africa, that's what they tell you. Please	6
have the next slide, which is slide 47. So one reason	7
is that the diseases which AIDS patients get has	8
antibodies that react to the tests; that's	9
micro-bacteria and fungal. The second reason is that	10
AIDS patients have auto-antibodies. In fact, they have	11
a plethora of auto-antibodies that react with their own	12
cellular proteins, which means if the HIV proteins are,	13
in fact, cellular proteins, which we argued yesterday -	14
Eleni argued yesterday - one would expect their tests to	15
be positive on this basis alone, or, such antibodies	16
could also react non-specifically with the tested	17
proteins even if they are true unique proteins from the	18
retrovirus HIV. Now, the third reason is that the AIDS	19
risk groups are characterised by exposure to a very	20
large number of antibody inducing stimuli which include	21
semen; blood; factor 8, which is the substance that is	22
infused in haemophiliacs because they lack it and that's	23
why they bleed; any foreign proteins; infectious agents	24
and drugs, including oral drugs. A study of prostitutes	25
who used cocaine in New York City shows the positive	26

antibody tests are almost twice as prevalent in cases	27
where intravenous use is solely oral rather than	28
intravenous. All those factors have the potential to	29
produce antibody formation and it is not difficult to	30
appreciate that the more you have, the greater the	31
mechanics the more likely it is that there will be	
antibodies that will react in these tests which are	
non-HIV. Now, the same argument can be extended to sick	34
individuals who are not in the AIDS risk groups. Sick	35
individuals in general are expected also to have high	36
numbers and a greater variety of antibodies. If you get	37
a virus, if you get sick, you make antibodies. That's	38

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what happens when you are sick. So, we can predict the	1
same thing may happen in non-AIDS sick individuals. In	2
fact, we might predict that because of this some of	3
these antibodies might cause positive tests. In fact,	4
there are data to support this contention. Slide 48, in	5
1990, in a study never followed up or repeated, a	6
research group from the United States recorded the	7
results of HIV antibody tests, including ELISA and the	8
confirmatory Western blot, on nearly 90,000 patients.	9
These authors took great pains to exclude anyone who had	10
even the slightest remote chance of being an AIDS	11
patient, or being in an age group or had a disease even	12
remotely connected to AIDS so much so that it took over	13
half a page of print to list over 70 exclusion criteria.	14
They even excluded patients who had gunshot and knife	15
wounds because such patients have a slight preponderance	16
of a positive test and they found that 22% of men and 80	17
of woman in the AIDS age groups classified as no risk of	18
AIDS were antibody positive.	19
On the slide the word 'age group' should appear after	20
the word 'AIDS', is that right.	21
In the AIDS age groups, that's 25 to 44, up to 22%. On	22
the next slide it may be more obvious than slide 49. So	23
there are the percentage rates of the top AIDS	24
hospitals. As you can see, the numbers are not	25
insubstantial. Please note that these are people from	26

Q.

Α.

	whom any chance	e of being in an Albs risk group has been	4 /
	vigorously excluded, even gunshot and knife wounds.		
HIS	HONOUR:	My table hasn't come up on my photo,	29
	Mr Borick.		30
MR I	BORICK:	Yes, I notice that. I have the same	31
	problem but we	will fix that.	32
XN			33
Α.	I mean, Mr Pare	enzee was sick and attending a hospital at	34
	the time. Ther	re is limited clinical data I had been	35
	able to obtain	on Mr Parenzee. He was sick and was	36
	attending a hos	spital at the time he was diagnosed but as	37
	far as I am awa	are, he is not in an AIDS risk group so	38

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Mr Parenzee could well have been selected as a patient 1 in this study, hypothetically. The other important 2 thing is that if there are factors in non-AIDS risk 3 individuals that cause positive tests, why can't the 4 same factor also operate in the individuals who are in 5 the AIDS risk groups, and diseases don't discriminate 6 that much. Gay drug uses and haemophiliacs still get 7 the same diseases that everyone else gets. They don't 8 just get AIDS and nothing else, so these factors may 9 also operate in people in the AIDS risk groups as well. 10 As a chronology to this, one might also predict, when 11 health improves, at least some positive antibody tests 12 in previously sick individuals may revert to negative, 13 and again there is evidence in this. In 1991 there was 14 a paper published by Lange. One of the authors was 15 actually Dr Elizabeth Dax from the National Reference 16 Laboratory who reported that a reformed drug addict HIV 17 positive on the Western blot and ELISA lost their HIV 18 antibodies and reverted to negative when they reformed. 19 There was only a small group. There is only 10 of these 20 individuals but they reported them, but because HIV is 2.1 said to be for life but these addicts lost their 22 antibodies they regarded their original positive tests 23 as false positives. Nowadays, drug addicts with 24 positive tests who are recorded as true positive are 25 said to be infected for life and, in fact, are in the 26

second to highest risk group. Slide 50, this is	27
extremely important and somewhat tedious. I apologise	28
but I need to explain this to your Honour. This is a	29
highly significantly historical precedent that	30
illustrated how misleading antibodies may be in regard	31
to diagnosing retroviral infections. In the mid 1970s,	32
Dr Gallo discovered what he considered to be the world's	33
first human retrovirus in a patient with leukaemia. It	34
was named HL23V and the evidence for its existence	35
surpassed that of HIV because reverse transcription was	36
found in fresh uncultured tissue and they actually had a	37
density grading electro-virus picture showing retroviral	38

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particles. Now, following the discovery of HL23V, some
                                                             1
scientists determined its prevalence and how many people
                                                             2
the population had using antibody tests. These were
                                                             3
Reinhardt, Kurth and Robin Weiss from Germany and
England respectively. They conducted a serological
                                                             5
survey for antibodies that reacted with the proteins of
                                                             6
HL23V and they conclude what is in the slide: 'The
                                                             7
serological studies presented here and by others provide
                                                             8
indirect evidence that the infectious mode of
                                                             9
transmission' - that is the virus has been passed from
                                                           10
person to person - 'remains a real possibility in humans
                                                           11
and suggests that infection with a retrovirus may be
                                                           12
extremely widespread'. I should also add that they
                                                           13
included three monkey viruses in their serological
                                                           14
survey and found that humans also had widespread
                                                           15
infection to these three viruses. Now, understandably,
                                                           16
such studies rose a suspicion that the data may have
                                                           17
been misleading and was it possible that a
                                                           18
leukaemia-causing virus could be so wild spread while
                                                           19
the leukaemia was relatively rare, and since the vast
                                                           20
majority of humans don't come into contact with monkeys,
                                                           21
however, they have antibodies to monkey viruses. Now,
                                                           22
the answer to the question is in slide 51, please. It
                                                           23
was provided in 1980, five years after the discovery by
                                                           24
two highly prestigious research groups from the US where
                                                           25
they did some experiments to show that the antibodies to
                                                           26
```

	HL23V are not specific and they were 'caused by exposure	27
	to substances as diverse as normal components of serum,	28
	extracts of bacteria and even non-protein molecules such	29
	as glycogen', which is sugar. They concluded: 'The	30
	results are consistent with the idea that the antibodies	31
	in question are elicited as a result of an exposure to	32
	many natural substances possessing widely crossreacting	33
	antigens and are not a result of widespread infection of	34
	man with replication-component oncoviruses'.	35
CO	NTINUED	36
		37
		38

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	So our view, hypothesis and proposal, is that the reason	1
	for a positive antibody test in AIDS risk groups, which	2
	may include their ontogenetic viral, which is	3
	considerable and varied, it may include micro-organisms	4
	to which they are exposed and which might cause their	5
	diseases. Slide 52, please. This is a copy of	6
	Mr Parenzee's antibody test. I spent considerable time	7
	thinking about it, what to say about this and I would	8
	seek your guidance in this matter. Firstly, speaking as	9
	an expert, and I respect the fact that that status is -	10
	to use the word from yesterday - putative, this does not	11
	include the Western blot bands which normally are in a	12
	report of this nature. I was interested in the expert	13
	role to say that if this, if Mr Parenzee's bands showed	14
	only one glycoprotein band it would be positive in	15
	Australia but he may not be positive in the country in	16
	which he was born and considerably raised, because they	17
	require two glycoprotein bands. He may - his Western	18
	blot could be similar to the one that I showed before.	19
	I also considered what I would do may be in a non-expert	20
	role, that is, if I was Mr Parenzee's doctor. I'm not	21
	sure whether it's proper for me to speculate about that	22
	here or how I would regard this report	23
Q.	I think you just continue.	24
A.	Your Honour?	25

HIS HONOUR

26

Q. You can give the evidence, we will debate its relevance	2.1
later.	28
HIS HONOUR: I take it it will be received de bene	29
esse.	30
MS MCDONALD: There will be a lot of evidence that will	31
fall into that category. I maintain that position	32
throughout.	33
HIS HONOUR	34
Q. You go on.	35
A. The problem with this report is that it's not signed and	36
it describes the Western blot as reactive which is a	37
term which I am not familiar with and I'm not aware that	38

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	Western blot tests are ever described as reactive and I	1
	do not know what it means. I imagine it means that it	2
	has some bands. But it is also considered to be a	3
	confirmed positive reaction. But in the absence of the	4
	bands, I do not know, I can't make a decision about that	5
	myself. So what I'm trying to say, that - and it	6
	advises people to ring a certain number and report	7
	Mr Parenzee's as infected - as a physician I could not	8
	do that on the basis of that test, that's is basically	9
	all I'm saying about that.	10
MR	BORICK: Could I interpose, we will lead evidence	11
	from the IMVS that the Western blot test strip was	12
	destroyed five months after it was taken and that it is	13
	not known who conducted the test. There will be	14
	significant matters as this application proceeds.	15
XN		16
Q.	Sorry to interrupt you there.	17
A.	The next slide, please. I would like to conclude - 53 -	18
	Mr Parenzee's ELISA test was reactive. This does not	19
	prove that he was positive. Since Mr Parenzee's	20
	confirmatory Western blot report does not document the	21
	band pattern, his status as positive, indeterminate or	22
	negative cannot be verified. One cannot rely on a	23
	confirmatory antibody test when a test done on the same	24
	specimen is reported differently according to where or	25
	which laboratory performs the test. Even - I'm just	26

	reading - if the Western blot test kit proteins are HIV	27
	and Mr Parenzee has antibodies that react with them this	28
	does not prove the antibodies are HIV. Slide 54,	29
	please. The only way to determine if the antibodies are	30
	HIV is to use a HIV as a gold standard for comparison.	31
	This has not been done. At present this cannot be done.	32
	Presently there are no scientific data that prove a	33
	relationship between the positive antibody test and HIV	34
	infection. That is the completion of my presentation.	35
Q.	There is one other matter that I want to raise.	36
	Professor Cooper in his report refers to what has been	37
	described as the Koch postulates. Could you just	38

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- briefly plain to his Honour what that is, what the postulates are. 2
- A. Robert Koch was a German bacteriologist in the late 19th century, thereabouts. He wrote four postulates to help 4 people decide if a particular bacterium causes disease. 5 The problem at the time, there were lots of bacteria 6 being found and there were lots of diseases in near 7 association that prove causation. So he wrote out four 8 postulates which have become the Holy Grail for medical 9 students and doctors, although they have been criticised 10 a lot lately. The Koch postulates basically are, there 11 is four postulates. The first one is - I cannot quote 12 these directly according to Koch, these are Koch's 13 postulates according to myself. The first Koch 14 postulate is that the organism has to be associated with 15 a disease, it has to be present in every case in the 16 disease. The second one is that you have to be able to 17 isolate the organism from the characteristic lesions of 18 the disease. The third postulate is you have to be able 19 to reproduce the disease by injecting the organism into 20 the animal or experimental animal and get the same 2.1 disease. The fourth postulate is that you have to be 22 able to re-isolate the organism from the animal after 23 you've injected with the organism. That's what Koch 24 followed, and if the bacteria satisfies those postulates 25 then according to Koch's postulate that proves that the 26

	bacterium causes the disease, your Honour.	27
Q.	Professor Cooper in the report refers to the fact that	28
	in the absence of the fulfilment of the third postulate,	29
	which is the same as your third postulate, he relies	30
	upon an observation that laboratory or a health	31
	careworker may become infected in HIV and exposes them	32
	to the virus, he relies upon the Florida dentist case.	33
	Could you just assist his Honour with respect to both of	34
	those matters from which Professor Cooper relies.	35
Α.	Well, firstly, health careworkers, which is not the	36
	Florida dentist case - do you want me to address -	37
Q.	Do that first and then the Florida dentist case.	38

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A.	Health careworkers. There are reports of health	1
	careworkers developing positive tests in AIDS in the	2
	scientific literature. They are hard to find. But from	3
	our point of view, the question is: are these	4
	occupationally-wise? This proves Koch's third	5
	postulate. Maybe, maybe not. We know that no test is	6
	perfect. We would expect - there are a lot of health	7
	careworkers and we would expect that some health	8
	careworkers could have positive tests which are false	9
	positives. One would expect that some health	10
	careworkers would develop diseases which are in the AIDS	11
	list. The fact that a very small number - it is a small	12
	number, I think - I don't know the number, but it's	13
	not - I think in the United States it's 20 or 30, or	14
	thereabouts, I'm not up on this, I'm sorry, but you	15
	would expect it's not unexpected for a small number of	16
	health careworkers to develop these diseases even if	17
	it's got nothing to do with HIV. The other thing is	18
	that most health careworkers are women, yet 90% of the	19
	health careworkers who this happens to are in fact men,	20
	so one can't exclude that these people are actually AIDS	21
	risk groups and it has nothing to do with their health	22
	care work. So I don't - it's not very convincing in my	23
	view. As far as the dentist is concerned, it was -	24
	there was a dentist in Florida who has allegedly	25
	infected ten of his patients, but in fact five of those	26

patients had risk factors for HIV which were excluded	27
from the analysis and which left five patients and that	28
rate was said not to be different. In America one in	29
250 people are HIV positive, so five out of 1,100 is not	30
too different from the rate, although in fact the	31
comment that I read in the science was that that	32
differed from the rate of the patients of doctors in	33
America, the rate of these tests. More importantly,	34
there was an analysis done of the genomes of these	35
viruses, which was reported, which was, the CDC proved	36
that he had - in fact the virus in Dr Acer, that's the	37
name of the dentist, was the same. And this study is	38

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	commonly quoted as being proof of Koch's postulates and	1
	Mr Cooper quoted it and I read it, I think Professor	2
	Gordon also quoted it. Your Honour, the CDC did not -	3
	this was very controversial. I just wonder, I have some	4
	quotes to read about this, because I cannot possibly	5
	commit this to memory, so may I just read? It was	6
	reported in science about this, when this happened,	7
	which I just happen to have with me, and maybe I could	8
	just read some of the comments?	9
HIS	HONOUR	10
Q.	What are you referring to now.	11
A.	I'm referring to an article in the science which	12
	comments the case of the Florida dentist.	13
Q.	Can you give us a reference to it, to what date.	14
Α.	24 January 1992, when all this happened.	15
Q.	Yes.	16
A.	I am reading from this, although some of the quotes are	17
	on another piece of paper, but they come from this	18
	article.	19
Q.	Right.	20
A.	The genetic conclusions were not without controversy.	21
	With HIV the issue of sameness is not all that clear.	22
	'On this basis -' sorry - 'On the basis of the	23
	comparison -' the comparison was done by looking at 7 $\mbox{\%}$	24
	of the HIV DNA, just 7%, and by this analysis of 7% they	25
	concluded that the viruses were really identical, but	26

there was dissent. 'Stanley H Weise, director of the	27
division of infectious disease epidemiology at the New	28
Jersey medical school, argued that the CDC was not	29
absolutely thorough in collecting physical evidence and	30
did not perform enough controlled comparison to be sure	31
that the viruses found in Acer and his patients weren't	32
otherwise found in South Florida. The CDC is using an	33
innovative research technique and for its practical	34
application requires an enormous amount of controlled	35
data to know the proper way to apply it. The amount of	36
data that has been provided by the CDC in the MMWR -'	37
that's the Morbidity and Mortality Weekly Reports '- is	38

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very limited. So if someone wanted to interpret that	1
information for themselves I would think they would want	2
to access too much - they would want to access much more	3
information. In fact, there were other scientists, some	4
who were employed by lawyers to -' because there was a	5
compensation about this' - who wanted to test the CDC	6
data and they had to actually use FOI to obtain that	7
data and speaking with their lawyer they said "To use	8
the data to obtain -" sorry "- use the data from the CDC	9
to prepare a paper criticises the paper that the CDC	10
used in drawing its conclusions"'. So nonetheless, the	11
CDC in November 1992 claimed that Acer had infected his	12
patients. That was the end of the matter, but it was	13
controversial and not all scientists agreed that the	14
case had been proven. There was other dissent as well	15
that I haven't actually read. I mean, I may comment on	16
that, since you asked Mr Borick. It seems to me that if	17
HIV is going to fulfil Koch's postulates, then why are	18
so many people infected in the world, why does one have	19
to resort to this sort of case? I don't know.	20
NO FURTHER QUESTIONS	21
WITNESS STANDS DOWN	22
+THE WITNESS WITHDREW	23
MR BORICK: Perhaps we can have a five-minute break	24
for the changeover, if that will suit you?	25
HIS HONOUR: Yes. How long do you think Ms Eleopulos	26

will be?		27		
MR BORICK:	The next presentation, we might finish by	28		
lunchtime.		29		
HIS HONOUR:	Are there some more slides that I need to	30		
have for the n	ext presentation?	31		
MR BORICK:	Yes. You should have them.	32		
HIS HONOUR:	They are the ones starting with 'Sexual	33		
partners'?		34		
MR BORICK:	Yes.	35		
ADJOURNED 12.17 P.M.				
		37		
		38		

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RESUMING 12.26 P.M.				
+ELENI PAPADOPULOS-ELEOPOULOS CONTINUING				
HIS HONOUR REMINDS WITNESS SHE IS STILL UNDER OATH				
MS MCDONALD: There is one brief matter I want to raise				
before the witness commences the last section of the	5			
evidence. As I understand, this last presentation is	6			
going to relate to the issue of sexual transmission of	7			
HIV.	8			
I'm very conscious that there have been media in	9			
court during this hearing who have been handed out	10			
copies of Mr Borick's opening and he has been consulting	11			
with them in terms of the statistics that are about to	12			
be presented. The prosecution obviously won't be	13			
calling any evidence certainly today on this topic.	14			
I want to make it clear at this stage that there	15			
will be evidence suggesting that these figures are	16			
misleading and I raise it because I would be very	17			
concerned to see reports in the press presenting these	18			
sorts of figures to suggest that HIV isn't sexually	19			
transmitted in the public arena. I raise at this stage	20			
that there is certainly great controversy about the	21			
sorts of figures your Honour is going to hear.	22			
HIS HONOUR: What you've said is on the public record.	23			
It's for the press to have heard it. How the press	24			
report it, ultimately is a matter for the press but I'm	25			
sure that the members of the press who are reporting on	26			

this evidence	e and their editors are responsible and	27					
whatever repo	whatever reporting takes place will make it clear to						
members of th	members of the public that these are allegations put by						
one side in 1	respect of a matter which is hotly	30					
contested.		31					
MS MCDONALD:	Yes.	32					
HIS HONOUR:	HIS HONOUR: And there will be other evidence in						
relation to	it. I'd hope that the press is sufficient	21y 34					
responsible t	to do that.	35					
MS MCDONALD:	I'm sure that's right. I really raised	d 36					
it out of an	abundance of caution.	37					
MR BORICK:	Channel 2 last night in their publication	ion 38					
.SYR00209	E. PAPADOPULOS-ELEOPOULOS XN						

	of this case said that there had been some evidence	1
	given by scientists whose evidence had been debunked	2
	years ago. That didn't come from anything said to your	3
	Honour yesterday in court. I don't know who it did come	4
	from. That will be the subject of a complaint to the	5
	press council.	6
HIS	HONOUR: You're going to have another set of	7
	slides so we had better mark them so that we know where	8
	we are going.	9
EXH	IBIT #A8 SET OF SLIDES TENDERED BY MR BORICK. ADMITTED.	10
		11
+EX	AMINATION BY MR BORICK	12
A.	One of the sexual partners is called insertive active	13
	and that is the partner which donates the semen and can	14
	be only a male. The other partner is receptive, known	15
	as receptive passive and the semen recipient, and that	16
	partner can be either female or male. Now, 'A sexually	17
	transmitted infection is one in which the micro-organism	18
	is transmitted from person to person via infected	19
	genital secretions during sexual intercourse'. Sexually	20
	transmitted diseases, that is, STDs, are transmitted	21
	from the insertive to the receptive partner, from the	22
	receptive partner to the insertive partner, from the	23
	insertive to the receptive.	24
HIS	HONOUR: Mr Borick, I don't want to stop you and I	25
	don't want to stop this witness.	26

Α.	. Please do.		2 /
HIS	IS HONOUR: I want to indicate to you at this sta	age	28
	that I'm not satisfied that this witness is qualified	ed as	29
	an expert to talk about this particular topic.		30
MR	R BORICK: Which?		31
HIS	IS HONOUR: The topic of sexual transmission of a	any	32
	disease. I'm not sure that you've qualified her to	give	33
	this evidence. I mean, I'll hear the evidence but I	[	34
	ought to indicate to you at this stage that as I		35
	understand it, Ms McDonald is challenging the expert	cise	36
	of your witnesses anyway but I have some difficulty		37
	about the basis upon which this witness is put forward	ard	38

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I don't say anything about the other topics upon
                                                                2
    which she has given evidence. As I understand it, she
                                                                3
    is a nuclear physicist. That's her academic
                                                                4
    qualifications. I'm not sure what her qualifications
                                                                5
    are in biology. They don't appear to be any. She
                                                                6
    appears to be self taught. I'm not sure upon what basis
                                                                7
    it's put forward that she is an expert in talking about
                                                                8
    how diseases are sexually transmitted.
                                                                9
        I indicate that to you now because I don't want you
                                                               10
    to be caught short later on and say to me 'Well, your
                                                               11
    Honour didn't indicate any of that to me at an early
                                                               12
    stage', so I'm indicating it to you now. I'm not going
                                                               13
    to stop you from leading the evidence. The witness is
                                                               14
    here now and I'll hear it de bene esse but quite
                                                               15
    frankly, at the moment, I have some difficulty with her
                                                               16
    qualifications to give this evidence.
                                                               17
MR BORICK:
                   I just take you back to what you said
                                                               18
    about her qualifications as a nuclear physicist. She is
                                                               19
    a physicist and the evidence was given that that is a
                                                               20
    study of the basic science that underpins biology.
                                                               2.1
HIS HONOUR:
                  I understand that.
                                                               22
                  Professor McDonald, who is sitting behind
MR BORICK:
                                                               23
    me, is self taught in exactly the same way. You don't
                                                               24
    get a degree in serology. You have to get it through
                                                               25
    study, experience and knowledge and that's how she has
                                                               26
```

1

as an expert on this particular topic.

qualified herself.	27
Only one of the witnesses claims to have expertise	28
in epidemiology, for example, and the other witnesses	29
don't and in a certain way, you could say that some	30
issues of that sort are concerned with this evidence.	31
A person with her background, training and	32
experience is perfectly capable of reading the reports	33
and studies which have been carried on around the world	34
which you are now about to hear about and the	35
interpretation of those studies is well within her area	36
of expertise. She is not talking about the way in which	37
a penis is inserted into the vagina or anything like	38

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that. She is talking about what has been the result of
    the qualified studies, including the studies of Padian.
HIS HONOUR:
                   I don't want you to argue your case at
    the moment because you may well be right. All I
    intended to do was to indicate to you a concern of mine.
    You may have an absolute response to it, as I've
                                                                 6
    indicated. I haven't made any decision about any of
                                                                 7
    this material but I just didn't want you to be caught
                                                                 8
    short later on because of the way in which this evidence
    has been presented.
                                                                10
        I didn't want the criticism levelled later on or the
                                                                11
    suggestion levelled, rather than criticism, the
                                                                12
    suggestion levelled later on, 'Hang on, I didn't have
                                                                13
    any idea that your Honour might be thinking along these
                                                                14
    lines and therefore I haven't addressed it'. That's the
                                                                15
    only point I'm making.
                                                                16
MR BORICK:
                   I appreciate that's the way your Honour
                                                                17
   has put it and I appreciate that you explained to
                                                                18
    Dr Turner that you were asking questions. You were not
                                                                19
    challenging. Your Honour has expressed a concern and I
                                                                20
    think I should express a concern because at the five
                                                                2.1
    minute break, about five or six members of the gallery
                                                                22
    spoke to me and said that Professor McDonald sitting
                                                                23
    behind me, who I couldn't, see was making expressions,
                                                                24
    nodding his head and agreeing with your Honour when you
                                                                25
    were putting propositions. I don't want to be caught
                                                                26
```

1

	short either.	27
	It was obvious to a lot of people. I can't talk one	28
	way or the other but I assured those people that your	29
	Honour was going to decide this case according to law	30
	and not to worry about -	31
HIS	HONOUR: Mr Borick, I can say this to you:	32
	certainly I didn't observe all of the expressions of	33
	Professor McDonald. I did observe from time to time he	34
	might have nodded his head. It happens all the time in	35
	these courts that people nod their heads in agreement or	36
	disagreement or whatever. I don't interpret any of that	37
	as anything. I will rely entirely on the evidence	38

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	that's given. If Professor McDonald gives evidence, as	1
	I anticipate he will, he will be cross-examined and I'll	2
	rely on his evidence. Anything that happens in the body	3
	of the court is not going to influence me one way or the	4
	other. I put that on the record.	5
MR	BORICK: I wasn't going to raise it but I raise it	6
	because of your Honour's express concern about the	7
	expert status of this witness. You raised a query about	8
	whether she could talk about biology and I find that	9
	concern difficult to understand. You've heard her	10
	evidence and she is clearly an expert and so I don't	11
	want your Honour's use of the word 'concern' to be taken	12
	as indicating that you have a really serious doubt about	13
	it. You've got an open mind on this still?	14
HIS	S HONOUR: All I'm saying, as judges do from time to	15
	time and when there is not a jury present, as you know	16
	judges can express what we might call concerns,	17
	observation, however you want to characterise it, just	18
	to make sure that everyone understands where we are	19
	going.	20
MR	BORICK: Thank you for that and we will deal with	21
	it.	22
XN		23
A.	As I said, sexually transmitted diseases are	24
	biologically transmitted from the insertive to the	25
	receptive. This is not nuclear science. From insertive	26

to the receptive, from the receptive to the insertive,	27
from the insertive to the receptive. That is a sexually	28
transmitted disease must be bidirectionally transmitted.	29
This is very important so that's what I'd like to assist	30
a little beyond this to make a difference between a	31
sexually acquired and a sexually transmitted phenomenon.	32
For example, the only sexual partner at risk for	33
pregnancy is the woman, the receptive passive semen	34
recipient. The woman, that is the passive semen	35
recipient partner, cannot transmit pregnancy to the	36
active, insertive, semen donating partner, the man. The	37
man - the active semen donating partner - provides the	38

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cause of pregnancy which is semen but semen is not an 1 infectious agent, with the conclusion that pregnancy is 2 a sexually-acquired phenomenon. It is not a sexually 3 transmitted phenomenon. Slide 5. To prove that disease is sexually transmitted, you have first of all to find 5 the agent in the genital secretions. It has to be in 6 both partners, the passive and the active partner. And 7 as I said, it must be bidirectionally transmitted. The 8 evidence for a sexually transmitted disease is usually 9 obtained or always is obtained by contact tracing. That 10 is, if a man or woman is found to have a sexually 11 transmitted disease, then the doctor tries to trace her 12 sexual partners before she became infected and her 13 sexual partners after she became infected and this goes 14 on until as far back as they can. This is not done for 15 HIV. Slide 6. Here is the a quote from a very well 16 known HIV expert, Haverkos. 'Sexual contact tracing: 17 the standard practice in public health to combat such 18 sexually transmitted diseases as gonorrhea and syphilis 19 has been avoided for tracing of HIV infected persons'. 20 So instead of doing contact tracing, infection with HIV 2.1 is done by epidemiological studies. However, 22 epidemiological studies prove only correlation and 23 correlation does not prove causation. Furthermore, most 24 of the studies which report are transmission of - sexual 25 transmission of HIV are cross-sectional studies. Next 26

slide. Slide 8. In a cross-sectional study, here if we	27
look at this light, there will be people here, partners	28
who dance or partners who have wine glasses in their	29
hands and some of them may be found to be HIV positive.	30
The cross-sectional study is a snapshot of time. It	31
just addresses only a given moment in time. When you	32
look at the couple who both have a glass of wine in	33
their hands, it is impossible to say who gave the glass	34
of wine to whom. The possibility cannot be excluded	35
that a third person which is present in this crowd gave	36
the glass of wine to both of them or even somebody who	37
is not even there. They gave the glass of wine and	38

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walked out from there. Similarly, two people are 1 dancing. You don't know who invited whom to dance. 2 When you go and find two people - both of them are HIV 3 positive - it is not possible to say who infected whom. So then the assumptions are made. First of all, the 5 couple is questioned and if one of them admits to a 6 sexual risk, for example, one of the partners admit that 7 he is a drug user and the other one does not admit it, 8 then it is said that their partner who admitted to be a drug user transmits the virus to the partner who doesn't 10 admit to be a drug user but it is impossible to know 11 that the person who denies to be a drug user is not also 12 a drug user or that they did not have sexual contact 13 with other people so there are a lot of assumptions made 14 in the cross-sectional study. In fact, the people who 15 conducted these studies on HIV, they admit that from 16 cross-sectional studies it's hard to prove. You can 17 make some suggestions but it is not possible to obtain 18 proof. Slide 9. In 1981, when AIDS was diagnosed for 19 the first time, it was in gay men. The gay men had two 20 principal diseases at that time. And the diseases one, 2.1 as I said, pneumocystis carinii pneumonia and Kaposi's 22 sarcoma. As I said, Kaposi's sarcoma is a malignancy 23 but because the gay men - the ones who developed these 24 two diseases - were very promiscuous, immediately the 25 researchers tried to find out if there was any 26

	relations	ытр	– w	VIIAL WAS LII	e re	racionship o	i the se	exual 2	/
	activity	to t	the	developmen	t of	Kaposi's sa	rcoma.	28	8
CON'	TINUED							29	9
								30	0
								3:	1
								32	2
								3:	3
								34	4
								3!	5
								36	б
								3'	7
								38	8

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men were, or their kind of mobility, to develop Kaposi's sarcoma. The other factors was the use of no drugs -3 No drugs being. 4 That there are some drugs which gay men incur. Now, Α. 5 some of the gay men, they are so promiscuous that they 6 have up to 90 partners per month. This is in the 7 literature and this was published. This paper was 8 published in 1982. The same group of researchers who 9 published the 1982 paper, they have tried to find more 10 information regarding sexual activity in the development 11 of Kaposi's sarcoma and they reported in 1984 'The 12 number of partners per month in receptive anal-genital 13 intercourse with ejaculation, the number of occasions of 14 "fisting" ...' - and they define what 'fisting' means -15 'the insertion of a fist or forearm into the partner's 16 anus or rectum) in the year before the disease' was the 17 sexual risk factor for the development of Kaposi's 18 sarcoma. Slide 11, once the age of the antibody test 19 was developed, Gallo was the first to report on the 20 relationship between sexual activity and a positive 21 antibody test which he interpreted as proof for HIV 22 infection. I again quote the paper published in 1984 23 'Of eight different sex acts, seropositivity correlated 24 only with receptive anal intercourse and with manual 25 stimulation of the subject's rectum', that is rectal 26

And they found out that the more sexually active the gay

1

trauma, 'and was inversely correlated with insertive	27
anal intercourse'. By 1986, the next slide please,	28
slide 12, in 1986 Gallo published yet another paper.	29
There I am quoting again, they reported 'Data from this	30
and previous studies have shown that receptive rectal	31
intercourse is an important risk factor for HTLV-III	32
infection', that is positive antibody test. 'We found	33
no evidence that other forms of sexual activity	34
contributed to the risk'. In 1987, the next slide 30,	35
now, in the United States, as Dr Turner pointed out,	36
there is a study which started in 1985. In fact, these	37
began men who were in a study already for hepatitis B so	38

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they continued the study for HIV. It is the longest,
                                                            1
the best design, the best executed study in gay men, and
                                                            2
the largest, 5,000 gay men. By 1985 they reported
                                                            3
'Receptive anal intercourse was the only sexual practice
shown to be independently associated with increased risk
                                                            5
of seroconversion to HIV', and continuing, 'The hazards
                                                            6
of this practice need to be emphasised in community
                                                            7
education projects'. 14, in 1994, two HIV experts
                                                            8
published a review of all the papers, of all the studies
which were conducted in gay men by 1984. There were
                                                           10
about 25 studies. By analysing data from these studies,
                                                           11
they concluded: '1. 'Unprotected anogenital receptive
                                                           12
intercourse poses the highest risk for the sexual
                                                           13
acquisition of HIV infection'; that is a positive
                                                           14
antibody test. '2. A small risk is attached to
                                                           15
orogenital receptive sex. 3. Sexual practices
                                                           16
involving the rectum', rectal trauma, 'facilitates the
                                                           17
acquisition of HIV', that is a positive antibody test.
                                                           18
'4. No or no consistent risk has been reported
                                                           19
regarding other sexual practices'. Next slide, 15,
                                                           20
'Conclusions'. The evidence from gay men, from the
                                                           2.1
studies in gay men, show that like pregnancy, 'the only
                                                           22
sexual partner at risk for a positive antibody test',
                                                           23
that is what is known as HIV, 'is the receptive, passive
                                                           24
semen receiving partner', which means that the positive
                                                           25
antibody test, like pregnancy, can't be biodirectionally
                                                           26
```

	transmitted; that is that they are sexually transmitted.	27
	It cannot be biodirectionally transmitted, sexually	28
	transmitted, to the active, semen donating partner. As	29
	I said before, the cause of pregnancy is semen and semen	30
	is not biodirectionally transmitted. So whatever causes	31
	the positive antibody tests, it follows, in gay men, it	32
	cannot be a sexually transmitted agent.	33
HIS	HONOUR	34
Q.	I don't understand that, I'm sorry.	35
A.	Sorry, shall I start again?	36
Q.	It is no good starting again and repeating what you have	37
	already repeated. I understand the words, I don't	38

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	understand the logic, so you are going to have to	1
	explain it to me.	2
A.	Now, pregnancy, the only risk partner for pregnancy is	3
	the recipient of semen.	4
Q.	Yes.	5
A.	Right, and the woman cannot transmit pregnancy to the	6
	man.	7
Q.	No, I understand that.	8
A.	Right. This is exactly what's going on with the sexual	9
	activity in gay men. A gay man who is exclusively	10
	active cannot - like the man who goes to the pregnancy,	11
	a gay man which causes the positive antibody test and is	12
	exclusively active cannot ever become positive. He	13
	cannot become positive. This is what that shows. If	14
	gay men who are divided like is happening in the	15
	heterosexual sex -	16
Q.	I understand that proposition.	17
A.	So, you know, this -	18
Q.	I understand that proposition.	19
A.	That's what is happening, right. 16.	20
XN		21
Q.	You are up to 17.	22
A.	Now, we have already discussed the sexual studies so	23
	lets keep this one. Now, let's look at the evidence	24
	from heterosexual couples. The first paper -	25
HIS	HONOUR	26

Q.	I'm sorry, let's go back to 16 for a moment.	27
Α.	The conclusion?	28
Q.	Yes, the second conclusion 'A positive antibody test can	29
	be sexually acquired but cannot be sexually	30
	transmitted'.	31
Α.	Yes.	32
Q.	That is a question of definition, what is sexually	33
	transmitted and what is sexually acquired.	34
Α.	No, it is a big definition. It is a definition but	35
	sexually transmitted diseases go in both directions.	36
	The woman -	37
Q.	One moment. So what you are saying is in order for	38

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	something to be sexually transmittable, it needs to go	1
	in both directions.	2
Α.	That is by definition, by definition; that is what	3
	sexually transmitted diseases are, in both directions.	4
	It is not my definition. 18. Now let's go on the	5
	evidence from heterosexual sex. Again, most of the	6
	studies conducted in heterosexual couples are	7
	cross-sectional, and the first one again was published	8
	by Gallo and his colleagues from the Redfield institute	9
	in America and the paper was published in 1985. Now,	10
	what Gallo and his colleagues did is to test some	11
	military personnel who served in Germany and they found	12
	some men to be HIV positive and then they tested some of	13
	their partners and they reported that some of their	14
	partners were positive. So -	15
XN		16
Q.	Just interrupting you, that is their partners back in	17
	the United States.	18
Α.	In the United States, yes.	19
Q.	Not their German partners.	20
Α.	No, from Germany, they returned to the United States and	21
	in the United States, at the Redfield Army Institute of	22
	Research, they were tested and some of them were found	23
	to be positive and some of them had AIDS or pre-AIDS	24
	complexes, and as I said, they were found to be positive	25
	and then they tested their partners and some of their	26

partners were found to be positive. Now, Gailo	2/
speculated, and this is the study which is considered by	28
Gallo and Montagnier as being the first study to prove	29
heterosexual transmission of HIV - what Gallo assumed,	30
and his colleagues, they said these men served in	31
Germany and he assumed that without having any	32
evidence - they assumed that the men were infected by	33
German prostitutes and they passed their HIV to their	34
partners. So this proved biodirectional sexual	35
transmission of HIV in heterosexual couples. However,	36
this study was severely criticised by many researchers,	37
including Padian, the researcher who has done the most	38

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thorough study to date in heterosexual transmission of
                                                                 1
    HIV in the United States, and as I said, many others.
                                                                 2
    First of all, they are researchers who complained that
                                                                 3
    they did not have evidence. First of all, they did not
    have evidence that these people were infected from
                                                                 5
    German prostitute. In fact, somebody wrote to the
                                                                 6
    journal, they said at that stage no German prostitute
                                                                 7
    was positive. So these men could not have - the
                                                                 8
    assumption that they were infected by German prostitutes
    was not correct.
                                                                10
MR BORICK:
                   Just before we adjourn, I just want to
                                                                11
    clarify some aspects of your concern and I will do it in
                                                                12
    this way. If you look through the list of slides before
                                                                13
    you, you will see the references to the various
                                                                14
    publications which the witness is referring to.
                                                                15
HIS HONOUR:
                   Yes.
                                                                16
MR BORICK:
                  For example, they are in 6, 9, 10, 11,
                                                                17
    12.
                                                                18
HIS HONOUR:
                   Yes.
                                                                19
                   Then, when we go to deal with the
MR BORICK:
                                                                20
    studies, we see we are dealing with the specific
                                                                21
    studies, the European study group and so on.
                                                                22
HIS HONOUR:
                   Yes.
                                                                23
MR BORICK:
                   All of these are published scientific
                                                                24
    documents which all experts in this case have access to
                                                                25
    and your Honour can read them all too, but they are all
                                                                26
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;	a matter for th	ne study of a scientific area.	27
HIS I	HONOUR:	Yes.	28
MR B	ORICK:	It seems to me that your Honour would	29
1	have to accept	that the person who is capable of gaining	30
,	expertise by st	cudy, all the law says you can.	31
HIS	HONOUR:	I accept that. You don't have to	32
j	necessarily hav	ve qualifications.	33
MR B	ORICK:	A study must include the study then of	34
	the major studi	ies and I was wondering whether your	35
1	Honour would ac	ccept that as an argument.	36
HIS	HONOUR:	Of course I will because clearly a person	37
	can develop the	eir expertise through experience, through	38

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study, through qualification, through a multitude of
                                                                1
    ways of gaining their knowledge. Of course I accept
                                                                2
    that. I accept that as a proposition of law.
                                                                3
MR BORICK:
                   I am just wondering whether you want me
    to lead from this witness any more details about that
                                                                5
    particular study she has undertaken, or do you accept
                                                                6
    that she has read all these documents?
                                                                7
HIS HONOUR:
                   She tells me she has and I accept that.
                                                                8
    There is no basis upon which I wouldn't accept it.
MR BORICK:
                   And as your Honour well knows, in her
                                                               10
    expert evidence, and you have seen as many times as I
                                                               11
    have had police officers give expert evidence based
                                                               12
    entirely on experience.
                                                               13
HIS HONOUR:
                  Yes, I understand.
                                                               14
MR BORICK:
                  And that she has got.
                                                               15
HIS HONOUR:
                  Yes, I understand.
                                                               16
MR BORICK:
                  Just another topic, I have indicated
                                                               17
   before that these witnesses would like to return to
                                                               18
    Perth and we have got to book some flights. If they are
                                                               19
    not going to be cross-examined tomorrow, and I still
                                                               20
    don't think there is any possibility of that happening,
                                                               21
    I was wondering if my friend can help me. Is she
                                                               22
    prepared to take up the offer of more time?
                                                               23
MS MCDONALD:
                  I understand there will be an application
                                                               24
    for home detention bail if this matter has to be put
                                                               25
    off, and secondly, I understand it may be suggested that
                                                               26
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	we push on for a certain time.	27
HIS	HONOUR: There is another alternative to that,	28
	Ms McDonald, and that is that it may be, and I was going	29
	to raise this with counsel at some stage, this is a	30
	somewhat long, drawn out process at the moment and	31
	although, when I was initially asked not to sentence, I	32
	didn't sentence, I'm not sure whether I ought to go	33
	ahead and sentence and then any appeal in respect of the	34
	conviction and sentence can go forward together, and if	35
	the material which I am hearing is relevant to sentence	36
	then an appellant court can deal with it as well. That	37
	is just one matter I raise.	38

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	that's normally adopted and at the outset we did ask	2
	your Honour to sentence, but then agreed, on really a	3
	pragmatic basis, that there would be no issue with it	4
	being delayed. Really, there is no practical reason, as	5
	I see things, as to why the sentencing process shouldn't	6
	commence and be completed.	7
HIS	HONOUR: I don't express any view about it at the	8
	moment, but it's a matter that has been concerning me,	9
	that this is taking a long time, and I'm not critical of	10
	anybody about that, but it has taken a longer time than	11
	I anticipated it would take and it is certainly going to	12
	take a longer time. But anyway, if there is an	13
	application, there is an application, I will deal with	14
	the application, whatever that application may be.	15
MS I	MCDONALD: So just to finish off, to make my	16
	position clear. If my learned friend is in a position	17
	in which his experts need to go back to Western	18
	Australia I'm not going to stand in the way of an	19
	adjournment and, to be frank, of course it's going to	20
	further assist us if we can actually get the articles	21
	that the experts have relied on. But I don't want it	22
	said that the prosecution delayed the process, hence	23
	that adds some sort of weight to Mr Parenzee's bail	24
	application.	25
HIS	HONOUR: That's really not an answer to the	26

MS MCDONALD: Can I say obviously that's the course 1

	question, Ms McDonald. The question was: do you want to	27
	proceed to cross-examine these witnesses or - not this	28
	afternoon, as you've indicated -	29
MS	MCDONALD: Certainly not this afternoon.	30
HIS	HONOUR: - first thing tomorrow or would you	31
	prefer some time in which you can get your material	32
	together, consider it, take any instructions, so that	33
	you can fully cross-examine? What I don't want to	34
	happen is that you start cross-examining and then say to	35
	me 'Look, I need more time to get more material'. You	36
	have to make a decision about that.	37
MS	MCDONALD: I accept that and in part I'm hamstrung	38

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in terms of not knowing how long it is going to be
                                                                1
   before I get the information from the experts, but
                                                                2
    realistically, yes, I would prefer more time.
                                                                3
HIS HONOUR:
                  If that's the case Ms McDonald, can we
                                                                4
    agree that these witnesses can go back to Western
                                                                5
    Australia tomorrow -
                                                                6
MS MCDONALD:
                  Yes.
                                                                7
                  - or later today?
HIS HONOUR:
                                                                8
MS MCDONALD: Yes, as soon as they have finished their
    evidence-in-chief.
                                                               10
HIS HONOUR:
                   That means that you won't be calling any
                                                               11
    of your evidence, doesn't it?
                                                               12
MS MCDONALD:
                   That would seem to flow given that your
                                                               13
    Honour has already expressed some views.
                                                               14
HIS HONOUR:
                  Let's talk about that, maybe that is
                                                               15
    something that we will talk about after the evidence has
                                                               16
    finished, but Mr Borick, does that help you?
                                                               17
MR BORICK:
                   Yes. Yes, it does because it answers the
                                                               18
    question, the specific question at the moment and I'm
                                                               19
    fully aware of all the problems that are ahead. But on
                                                               20
    the issue of proceeding to sentence, if your Honour has
                                                               2.1
    already put the proposition to the prosecution, I have
                                                               22
    the transcript here, that Padian's figures are right,
                                                               23
    then that may well affect the sentencing process and you
                                                               24
    heard that discussion and I'm very surprised that my
                                                               25
    friend has indicated that they are going to attack one
                                                               26
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	of their stronger supporters, Padian. I don't ask your	2 /
	Honour to make any -	28
HIS	HONOUR: No, I'm not making any statement about	29
	anything at this stage, but really the short question is	30
	whether your witnesses can go back. The answer is yes.	31
MR I	BORICK: Yes. When they are finished their	32
	evidence I will deal with this issue of sentence then.	33
HIS	HONOUR: If it arises at that stage, yes. We can	34
	deal with it once these witnesses have finished.	35
	As far as the resumption of their evidence, you did	36
	indicate that they could be cross-examined by video	37
	link.	38

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MR BORICK:
                  I will be doing that with their experts.
HIS HONOUR:
                  Ms McDonald, have you any view about
                                                                2
    that?
                                                                3
                   It's not the best option. Can I indicate
MS MCDONALD:
    that at the moment there are two expert prosecution
    witnesses. At the moment we are investigating one of
    those witnesses actually coming to South Australia. So,
                                                                7
    in all likelihood, hopefully, depending on when we
                                                                8
    resume, it will only be the one video link out of five.
    I accept these people are busy and if there is no other
                                                               10
    way, we can live with the video link. I would have
                                                               11
    thought the cross-examination would take a bit of time.
                                                               12
HIS HONOUR:
                  Can I indicate this to both of you
                                                               13
    because it relates to all witnesses, not just
                                                               14
   Mr Borick's: I prefer, for evidence of this kind, to
                                                               15
   have the witnesses in the witness box. Video link has
                                                               16
   obvious advantages in certain types of cases but I would
                                                               17
    really prefer to have the witnesses here and that
                                                               18
    applies to both sides.
                                                               19
MS MCDONALD:
                  And that's why we have endeavoured - it's
                                                               20
    actually Dr French.
                                                               21
                  Where is Dr French resident?
HIS HONOUR:
                                                               22
MS MCDONALD:
                  Professor French.
                                                               23
HIS HONOUR:
                  Professor.
                                                               24
                  He is also from Perth. In fact, from the
MS MCDONALD:
    same hospital that's been referred to.
                                                               26
```

HIS HONOUR:	I would prefer to have him here rather	27
than having hi	m give evidence by way of video link.	28
MS MCDONALD:	Those arrangements are under way.	29
HIS HONOUR:	I know people are busy and I know Perth	30
is a fair flig	ht, but you know people travel around the	31
world these da	ys and I would prefer to have the	32
witnesses here		33
MS MCDONALD:	That's why we are looking at it as	34
recently as th	is morning.	35
HIS HONOUR:	Thank you. We will adjourn until 2.20.	36
ADJOURNED 1.11 P.M		37
		38

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RESUMING 2.22 P.M.	
MR BORICK: With reference to the concern that you	2
expressed about the expertise, you will recall there was	3
an affidavit from a third member of the Perth group.	4
HIS HONOUR: Yes.	5
MR BORICK: Helman Alfonso. He is in Chicago at the	6
moment and we have decided now to call him, but the	7
evidence on all of these issues has been a collaborative	8
effort of the Perth group, of which he is a member. He	9
is a senior lecturer in epidemiology and statistics at	10
the University of Western Australia, apart from having	11
his own expertise in this area, and that's the same	12
degrees as Padian has, for example. So there could be	13
no issue about his expertise to give this evidence. So	14
he will be back, I think, on Tuesday or Wednesday or	15
thereabouts and I will arrange, one way or the other,	16
for him to give evidence which I hope, rather than have	17
to repeat all of what Mrs Eleopulos has said, he can	18
confirm it by one way or another.	19
HIS HONOUR: If you intend to call him, he can read	20
the evidence -	21
MR BORICK: That's what I said.	22
HIS HONOUR: - given by the witnesses, and then you	23
can examine him based upon having read their evidence,	24
and he can be cross-examined accordingly.	25
MR BORICK: That's right. I'm not asking your Honour	26

	to decide any question of the expertise of this witness	27
	on the sexual transmission evidence, because you haven't	28
	heard all of the evidence yet.	29
HIS	HONOUR: No.	30
MR I	BORICK: But I take it you would accept the fact	31
	that a person is qualified in the area of epidemiology	32
	and statistics, which are the basic qualifications I	33
	could think of, then that would be acceptable.	34
HIS	HONOUR: As I have indicated, I don't suggest for	35
	a moment that the witnesses you have called are not	36
	acceptable. I just raised an issue with you but	37
	clearly, I mean if you intend to call him, then you	38

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qualify him and I will hear his evidence, obviously.
                                                                1
                   I don't want my learned friend to think
MR BORICK:
                                                                2
    this is going away, because it's not.
                                                                3
MS MCDONALD:
                  I didn't think that for a second.
                                                                4
MR BORICK:
                  We got up to -
                                                                5
HIS HONOUR:
                   19.
                                                                6
MR BORICK:
                  Yes.
                                                                7
HIS HONOUR:
                  The one that is up on the screen at the
                                                                8
    moment is 18.
                                                                9
MR BORICK:
                  Yes.
                                                               10
XN
                                                               11
Q. We had just moved to 19.
                                                               12
A. No, as I said, there are many problems with this study
                                                               13
    which is considered by Montagnier as being the first one
                                                               14
    to prove bidirectional sexual transmission in
                                                               15
    heterosexual individuals. I started by saying that they
                                                               16
    assume - first of all, they assumed that the military
                                                               17
    men were infected by prostitutes in Germany, and they
                                                               18
    did not have - and it was, in fact, people who wrote in
                                                               19
    to the journal where this paper was published who said
                                                               20
    at that time, there was no evidence that prostitutes in
                                                               2.1
    Germany were infected with HIV. In fact, Montagnier did
                                                               22
    not only assume that these men were infected by
                                                               23
    prostitutes in Germany, but they assumed that the
                                                               24
    prostitutes in their turn were infected by other
                                                               25
    heterosexual men. The second problem there, and one of
                                                               26
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the main problems, was that they did not have proof that	27
the men who tested positive were not actually bisexual	28
men, and all they did, they said - they had some	29
trainers, interviewers, to question them, then they said	30
they had physical examination and rectal swabs for	31
gonorrhoea, and they said they did not have these	32
diseases. They inquired of family members and friends	33
if this man was bisexual so, from this, they concluded	34
that the men were not bisexual and were telling the	35
truth to the military doctors, but again, there were	36
objection to this interpretation because, I will give	37
you all; one doctor who wrote to the journal, he found	38

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	out that military men do lie about their sexual	1
	orientation, and he presented his data. He had 20 HIV	2
	infected military men and who were interviewed first by	3
	military men, and subsequently by civilian case	4
	investigators.	5
Q.	To be fair to military people, that perhaps occurs	6
	because of their position in the army and affecting	7
	promotion and where they're stationed, things like that.	8
A.	Yes. This lie is talked about itself. The men were	9
	interviewed, if they belong to any risk factors, by	10
	military men and by civilian men. To the military men,	11
	only four of them admitted to being homosexual/bisexual,	12
	one admitted to being intravenous drug user, and the	13
	other 15 were undetermined. But when the same people	14
	were interviewed by civilian doctors, 14 of them said	15
	that they were homosexual/bisexual, three said that they	16
	were intravenous drug users, and only three remained	17
	undetermined. So the authors of this paper said yes,	18
	military men do lie and they have reasons for lying	19
	because, first of all, there will be - if they - if at	20
	that set time, I don't know how it is now in America,	21
	but an HIV positive man and a gay man at that time would	22
	have been - would have lost their job in the army.	23
Q.	My understanding of this survey was that each of the	24
	individuals, the 20 individuals, had left the military	25
	service when they responded to the civilian	26

	investigators.	27
A.	Not the civilian, because the civilians are not obliged	28
	to tell -	29
Q.	Sorry, I have may have misunderstood; I understood that	30
	each of the military personnel had left the services	31
	when they responded to the civilian -	32
A.	I don't know about that.	33
Q.	That was my misunderstanding.	34
A.	But that is what was happening, that was the law then,	35
	that military men, or gay men, who are HIV positive,	36
	they had to lose their job. So that study, as I said,	37
	was severely criticised and no-one can rely on this	38

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- study proving bidirectional sexual transmission.
- Q. I think you're now moving to a survey of the various study groups which have taken place since about 1984 or
  - thereabouts. 4

1

2

10

26

A. Yes. In our study, we were addressing different 5
studies, or studies in different groups, so we start 6
with the prostitutes, because if any group, heterosexual 7
group, were going to be found as HIV infected, then it 8
should be prostitutes, because prostitutes are the most 9

promiscuous heterosexuals. There are several reasons

- why, apart from the fact that they are very promiscuous, 11
- why the prostitutes should have been infected, because 12
- the safe sex campaign started in 1986/1987, and by that 13
- time there were many by sexual and homosexual men who 14
- are HIV infected and, as you see from what I am quoting 15
- now, there are many of these men who are having sex with 16
- prostitutes. For example, in this study, in this study 17 of men who had sex with female prostitutes, more than 18
- one-third reported having had sex with other men. So 19
- one-third of the men who are having sex with the 20
- prostitutes, they also having sex with other men and, by 21
- then, there were many homosexuals who were infected, so 22
- one would have expected this is a very good reason for 23
- prostitutes also to be found to be infected. Slide 22. 24
- This is a study reported from prostitutes in London. 50 25
- women, they had 7-100 customers per week, they were

prostitutes on the average for 4.1 years. 41 of them	27
had had oral sex, 9 anal sex, and three used drugs.	28
None of them was found to be infected. That was in	29
1985. Slide 23. Here is another study published again	30
from England and it was 1992, in Glasgow. They divided	31
the prostitutes into prostitutes who are using	32
intravenous drugs and prostitutes who are non-drug	33
users. Of 127 prostitutes who were using drugs, six	34
were found to be positive. Of 165 who are not using	35
drugs, none, zero, were found to be positive. Slide 24.	36
Now there are many other studies conducted in other	37
centres, again all with non-drug using prostitutes. For	38

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example, one published in 1985: there were 56 non-drug
                                                            1
users, 15-25 customers daily, they are not using
                                                            2
protection routinely. Zero was found, none of them was
found to be positive. Another study published in 1986:
101 non-drug using prostitutes, they had, on the
                                                            5
average, 20 clients per day. One-third was not using
                                                            6
condoms and none of them was found to be positive.
                                                            7
Similar findings were reported from Paris and
                                                            8
Copenhagen. Slide 25. A study published from Australia
in 1991. It was admitted that at that stage still there
                                                           10
were prostitutes who are at risk of developing a
                                                           11
positive test, like prostitutes were not, they were not
                                                           12
always practising safe sex. There were 231 prostitutes.
                                                           13
19 of them had bisexual partners, 21% with no drug using
                                                           14
partners, 69 were using condoms with clients, and
                                                           15
condoms were rarely used with non-clients, and they are
                                                           16
not even using condoms for anal sex. Slide 26. Now
                                                           17
no-one was found to be infected. There has been no
                                                           18
documented case of female prostitute in Australia
                                                           19
becoming infected with HIV through sexual intercourse.
                                                           20
That was published, as I said, 1991. Slide 27. This
                                                           2.1
slide was conducted in the Philippines. They were
                                                           22
testing from 1985 to 1992. They tested 53,903
                                                           23
prostitutes. 72 were found to have ELISA and 'a
                                                           24
confirmatory Western blot'. This - first of all, there
                                                           25
are a few things to be said about this finding. The 72
                                                           26
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prostitutes out of 53,903 tested is so small that no	27
test, even if the test was nearly 100% specific, you	28
will find 72 to have false positive. Secondly, as the	29
authors wrote 'All infections have been acquired -' they	30
said '- through vaginal intercourse with heterosexual	31
men'. 'Intravenous drug use was denied in all cases'.	32
Just because they denied, that does not mean that it was	33
not happening. Furthermore, they said that 'The	34
majority of seroconversions occurred prior to 1989 and	35
the rate declined significantly after 1987'. One	36
wonders if this has anything to do with the changes of	37
criteria of zero positive test.	38

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Q.	Have you finished with 27.	1
A.	Yes.	2
Q.	I think you're moving now to the first of six slides	3
	which deal with the various European study groups.	4
A.	Yes.	5
Q.	Perhaps we can put up the first slide, but in the course	6
	of giving your answer, could you refer to the criteria	7
	for Western blot tests related to his Honour's questions	8
	of Dr Turner this morning.	9
A.	Now in the European study, initially they had nine	10
	centres from six countries, but then it was more than	11
	six countries in the second part of the study. Now the	12
	they test each country and each centre used its own	13
	criteria. They don't say what are the criteria. Now	14
	this is very important, I mean the fact - Mortimer	15
	says - he is the director of the reference laboratory in	16
	London - there are many problems with the Western blot,	17
	so many that he is not even using it to prove HIV	18
	infection, but the two main problems with the Western	19
	blot are that no Western blot, not even one Western	20
	blot, has been confirmed as proving HIV infection by	21
	using a gold standard, that is by using HIV as a world	22
	standard. The second is that Western blot is not	23
	standardised.	24
CON	TINUED	25

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And it is not only that it is not standardised but the	Τ
criteria vary so significantly from one country to	2
another country. As I said, if you have somebody who is	3
tested in South Africa, for example, and is said to be	4
positive, he could come here in Australia and because we	5
have totally different criteria for a positive test,	6
then the person will be said not to be infected. Can	7
you imagine somebody again, say in South Africa, being	8
found positive for syphilis in South Africa and then	9
when he comes to Australia, he is not positive for	10
syphilis? This is not done. The same thing, just	11
imagine that we have a woman who is proven with a test	12
as having breast cancer in America in the USA and then	13
she comes here, and the doctor sees the same test and he	14
says 'No, this test does not prove breast cancer in	15
Australia'. It is the test. It is not the	16
interpretation of the breast cancer test because doctors	17
can make mistakes when they interpret breast cancer but	18
it is not the same pattern - the same doctor - in	19
America he will be obliged to put it as being cancer and	20
in Australia, as not proving cancer. That's how big is	21
the difference. That's how big the problem of	22
non-standardisation of the Western blot is and that's	23
what they have done in the European study. Each country	24
in each centre use their own criteria for	25
interpretation. Now, the first studies imported from	26

Europe were cross-sectional but there were so few	27
heterosexual people which tested positive, that they	28
have to collect all these people for the first study -	29
the 1989 study - all these people from six countries to	30
come with a number and in how they define who	31
transmitted whom where again they went and questioned.	32
As I said this is cross-sectional study. They went and	33
questioned the couple and if one of them admitted the	34
person belonged to a risk factor, then that person was	35
considered and that person was called the index case and	36
was called the index case and was said to transmit the	37
virus to his or her partner and this study, at this	38

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moment, they did not have any evidence for sexual 1 transmission from male to female. They only publish 2 what happen from male to male, not from male to male so they had 153 men which included 92 intravenous drug 4 users, 33 bisexuals and five Africans and they had 55 5 partners, women - and 27% of the women were reported as 6 positive. Next one. 29. This is slide 29, the second 7 slide from the European group. They reported that in 8 this case, the only sexual risk factor was anal intercourse. Sexual practices other than anal 10 intercourse were not associated with infection of the 11 partner. So we are here only interested in the sexual 12 act. This women, the 27%, the possibility cannot be 13 excluded that they were infected by other means but as 14 far as sexual intercourse is concerned, the only sexual 15 act, the only risk factor was anal intercourse. 30. 16 Now this is again, a European, a continuation of the 17 Europe study. This time they had 151 male and 388 male 18 partners. Most of the cases were IV drug users which, 19 according to Nancy Padian, their partners may have been 20 also drug users but they are not admitting it. Now 12% 2.1 of the male partners were found to or were reported to 22 be infected, likely to have a positive test and they 23 said this meant they had a risk factor other than 24 heterosexual contact but just because they deny doesn't 25 mean it did not happen and 20% of the male partners were 26

reported as infected and again, anal sex was the only	27
sexual act which was a risk factor. Slide 31. We are	28
continuing again with European study group 1994. This	29
is a prospective study when they had, as I said, the	30
cross-sectional study and in 1994 they reported results	31
from a prospective study and this is known as the de	32
Vincenzi study. The study started in 1987 and ended up	33
in 1991, March. They had 378 eligible couples. They	34
had 10 centres from eight countries. 74 of the	35
individuals were lost to follow-up. 11 of them refused	36
to give any answers regarding their sexual behaviour.	37
124 out of the 256 used condoms. Antibodies became	38

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positive in 12 out of the 256 partners of which eight	1
were women and four were men so from 1985 to 1995, from	2
10 centres in 10 European countries, they could come up	3
only with four men who are said to be infected by	4
heterosexual sex. Slide 32. As I said, 167 of 245	5
couples were IV drug users. 27 were bisexual contact.	6
41 were heterosexual, seven African men and women, 22	7
European men and women. 12 were unknown so that means	8
the majority of the people were intravenous drug users	9
and I repeat, Nancy Hadian stresses again and again,	10
anyone can lie but the people who are partners of	11
infectious drug users, they have a much higher	12
probability for themselves to be also drug users. Slide	13
32. None of the men, as I said, were questioned about	14
oral drugs. That is important because at least people	15
who use cocaine - they have no IV drugs - can have even	16
a higher positive range of the antibody test than people	17
who use intravenous drugs. They don't say what was the	18
origin of the four men. Were they Africans? Were they	19
European? Because many of the people who are in the	20
eight European countries came from Africa and again,	21
they give no criteria at all for what a positive test	22
meant. Again, all seroconversions occurred during the	23
first 24 months of exposure. None of the	24
seroconversions occurred after the 24 months of	25
exposure; no difference in seroconversion rates between	26

couples who used condoms 50% of the time and those who	27
did not. This indicates that there may be some problem	28
with the assumption that the men and the women acquired	29
this positive test by sexual conduct and again, this	30
study - 34 - the study was again severely criticised	31
including by Brody. He wrote to the editor of the	32
journal who published the European study group findings.	33
'To the editor: the problem of subjects lying, often	34
euphemistically called "social desirability", responding	35
about engaging in anal intercourse and intravenous drug	36
use plagues most studies of the behavioural risk factors	37
for the transmission of HIV and the study by de Vincenzi	38

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and her colleagues is no exception. How was the absence 1 of homosexual contact verified? How was the absence of 2 anal intercourse among the women verified? Only four men and six women among the 121 couples inconsistently using condoms lied -' sorry '- if only four men and six 5 women among the 121 couples inconsistently using condoms 6 lied when they denied engaging in anal intercourse or 7 misrepresented the facts for other reasons, there would 8 be no cases attributable to vaginal intercourse without a condom. At least this much lying should be expected'. He continues - slide 35 - 'Before vaginal and anal 11 intercourse are assigned comparable degrees of risk and 12 condoms given the credit for saving lives, the 13 alternative explanation that the disease is spread 14 almost exclusively by anal and intravenous transmission 15 must be more rigorously examined'. Slide 36. 'De 16 Vincenzi responded to Brody. She said 'We agree with 17 Dr Brody that our prospective analysis lacks statistical 18 power to show an increased risk associated with anal 19 intercourse. Indeed, we found such an association in 20 the cross-sectional analysis. However, from a public 2.1 health point of view, no-one should state that there is 22 no risk of HIV transmission through vaginal sex, since 23 the vast majority of cases of AIDS throughout the world 24 are acquired in this manner'. In other words, de 25 Vincenzi, that is, the principal author of the European 26

	study, who lasted from 1984 to 1994, admitted that in	2 /
	Europe they did not have proof that a positive HIV	28
	antibody test or what is known as HIV is acquired	29
	through sexual - through heterosexual sex but she said	30
	'We have to admit' - 'We have to accept it because that	31
	is what is reported from everywhere else throughout the	32
	world but throughout the world, we have no evidence'.	33
	Slide 37.	34
Q.	Are you now moving to the University of California	35
	studies. This is the work of Nancy Padian.	36
Α.	Yes.	37
Q.	I think the next eight slides are involved in this.	38

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A. Yes.	1	
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Ç	2.	Can	you	start	now.			2

A.	I think I mentioned this study before. This study is	3
	the longest, largest, best designed, best executed study	4
	anywhere in the world. It was conducted by Nancy Padian	5
	and four colleagues in California. Now again, most of	6
	the publications from these studies are from	7
	cross-sectional findings. The study started, as I said,	8
	in 1985. By 1987, she published a paper entitled 'Male	9
	to male transmission of human immunodeficiency virus',	10
	so by then she had no evidence - she had evidence only	11
	from male to male transmission. She reported 'Overall	12
	23% of the women were infected. The total number of	13
	exposures to the index case, sexual contacts with	14
	ejaculation, and the specific practice of anal	15
	intercourse also with the infected partner, were	16
	associated with transmission'. So again, we find anal	17
	intercourse, the risk factor for the acquisition of a	18
	positive test. She continues 'Anal intercourse	19
	significantly discriminated between seronegative and	20
	seropositive women'. 38. We must point out here, I	21
	want to stress this: that Padian reported that the	22
	number of sexual exposures with ejaculation and not the	23
	number of sexual partners - that is not promiscuity -	24
	was significantly associated with a positive test. Next	25
	one, slide 39. In 1988, at the fourth international	26

AIDS conference, Padian reported 'We have enrolled male	27
partners of infected women. In spite of repeated	28
unprotected sexual intercourse, median number of sexual	29
contacts, 399, none of the 20 male partners was	30
infected'. Now, can you imagine 20 men having sex, 339	31
times, each of them, with a person who's been infected	32
with syphilis or gonorrhoea and none of them becoming	33
infected and this is what this slide tells us in regard	34
to a positive HIV antibody test. Slide 40. As I say,	35
the study started in 1985 and only by 1991, Padian was	36
able to report sexual transmission from woman to man.	
She first reported that she had 307 partners of infected	38

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men and 61 women. Again she reports the male to male	1
transmission, 20% positive and she had 72 male partners	2
of infected women. She found only one male positive but	3
there were - she had doubts and I'll give another	4
slide - she had doubts that even this person was	5
infected by the lady because they had some - she	6
describes some very unusual sexual practices and was	7
including the whole partner watching somebody else	8
giving sex with her and then him having sex and bleeding	
from the genital tract in both of them. There were some	10
unusual practices and they are described in her paper.	11
Slide 41. She concluded, as I said, she had herself	12
doubt that this man was infected by the woman. She said	13
'Even though we have no reason to suspect the accuracy	14
of our risk histories, because both partners in this	15
case history were not monogamous, we cannot be	16
absolutely certain that we correctly classified this	
case as male to male transmission'.	

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That is, it is possible that the discrepancy between the 1 efficacy of male to female compared to female to male transmission in this study could be even greater'. That means that even she admits again that these men may not have been infected by the woman, and even by 1991, she 5 could not have come to proof of sexual transmission from 6 woman-to-man. She also adds 'Of course, because we are 7 relying on risk factors, the same caveats apply to 8 classification of male-to-female cases of transmission 9 as well'. In other words, even the transmission from 10 female-to-male from male-to-female can be questioned. 11 Slide 42, in 1997 she published her results and the 12 paper is entitled 'Heterosexual transmission of human 13 immunodeficiency virus (HIV) in Northern California: 14 results from a 10 year study'. She had 360 female 15 partners of infected men. She said 19 were found to 16 have a positive test. 'Anal sex in the index case who 17 acquired HIV by IV drug use were the main risk factors 18 for a positive antibody test'. Slide 43, again we 19 continue with the cross-sectional study in 1997. This 20 time she had 82 male partners of infected woman. 21 out of the 82 men were reported as positive. One of the 22 men was the same man she reported in 1991 and she had 23 doubts about the validity. The second man she also had 24 doubts and for a number of reasons, including that the 25 man had chlamydia infection. She calculated from a 26

	cross-section of study the capability of transmission	27
	per coital act and the male-to-female probability was	28
	0.0009. The female to male was 0.000125.	29
HIS	HONOUR	30
Q.	It is actually 0.000125; three 0s in 9 and three 0s in	31
	125.	32
A.	Slide 44. Padian commented on their findings and she	33
	said why we find so little transmission comparing to	34
	what other people recorded. She wrote - in here, when	35
	she gives the evidence, she is including study by	36
	Redfield and Gallo. She said 'Other studies may not	37
	have adequate control for other concepts founding	38

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nonsexual routes of transmission such as risks	1
associated with intravenous drug use. At first blush,	2
cases that appear attributed to heterosexual	3
transmission may, after in-depth interviewing, actually	4
be linked to other sources of risk because partner	5
studies are by definition not random samples, and most	6
reported results are based on retrospective or	7
cross-sectional analysis. Some studies may over-select	8
couples in which both partners in a couple are infected	9
because such couples may be more easily identified, thus	10
biasing transmission rates. Furthermore, it is often	11
difficult to establish the source of infection to such	12
couples'. So, she questions all the test studies, the	13
cross-sectional studies, including for heterosexual	14
transmission of HIV. Slide 45, a study was done in	15
Rakai in Uganda which involved 15,127 individuals.	16
These individuals were followed for four years and they	17
conducted different studies in these people. After four	18
years they looked back to find out the antibody status	19
of these people and from there they reported, and I	20
quote, '171 monogamous couples, in which one partner was	21
HIV positive, were retrospectively identified from a	22
population cohort', and they calculated their	23
probability of transmission per coital act and they	24
found out male-to-female was 0.309 and female-to-male	25
was 5.2013. The same study was reported, the same	26

finding. One of the principal authors was Gray and the	27
other time it was Wawer in 2005. The analysis was	28
different. The study was exactly the same. Slide 46,	29
we have analysed the cross-sectional evidence from the	30
Padian study and the evidence from the retrospective	31
study in Uganda and published a paper in the British	32
Medical Journal with our analysis. Taking into	33
consideration the probability of the transmission	34
reported per coital act reported in these two studies,	35
we came mathematically to these results. If somebody	36
has sexual contact once every three days, with an	37
infected partner, in the United States, the woman to be	38

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	infected by a man, for a 50% probability she has to	1
	have, as I said, sex every three days for 6.3 days. For	2
	a probability of 95%, she will have to have sex with an	3
	infected man for 27.4 years.	4
XN		5
Q.	You said 6.3 days. You mean 6.3 years, I mean.	6
A.	Yes. Sorry, no, I said every three days. She has to	7
	have sex every three days.	8
HIS	HONOUR	9
Q.	Yes, for 6.3 years.	10
A.	Yes, for a 50% probability, and for a 95% probability,	11
	27.4%. For a man to be infected by a woman, for a 50%	12
	probability he will have to have sex with the woman	13
	every three days for 51 years, and for a 95% probability	14
	he will have to have sex every three days for 222 years.	15
	The findings from Uganda, let me don't repeat it. As	16
	you can see, it is similar.	17
HIS	HONOUR	18
Q.	Yes, I can see. It is not quite similar for	19
	female-to-male but for the others it is.	20
A.	Right. Would you like me to repeat it?	21
Q.	No.	22
A.	Shall I repeat it?	23
XN		24
Q.	I just want to make it clear that it is a mathematical	25
	study performed by the Perth group, taking Padian's	26

	Uganda figures.	27
A.	Taking Padian, we did the mathematical -	28
HIS	HONOUR: Yes, I understood that.	29
XN		30
A.	Slide 47. In the paper, as I said, we published this	31
	letter in the British Medical Journal in 2002 and in	32
	that paper we concluded 'In other words, there is no	33
	more heterosexual transmission of HIV in Africa than	34
	anywhere else, including Britain, the United States,	
	Australia and Europe'. Slide 48, now, in Rakai, again	36
	in Uganda, there was another study which was the results	37
	published in 2003. The authors had sexual behaviour	38

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education implemented on a huge scale and with great	1
care and commitment. They found out that after this -	- 2
people who are educated or who were having sexual	3
education, this reduced infection with gonorrhoea,	4
syphilis but no effect, no effect on HIV, which means	5
that there are dissimilarities between gonorrhoea and	6
syphilis and HIV.	7
I will take you back to slide 47. Without going back	to 8
it on the screen there, that was a letter written by y	70u 9
and perhaps other members of the Perth group which was	s 10
published in the British Medical Journal in 2002.	11

Q.

- A. Yes. 12
- Q. And it dealt with the topic of sexual transmission. 13
- A. Yes, we dealt on the topic of sexual transmission. We 14 had nearly two years very intensive debate online in the 15 British Medical Journal and this was again and again - I 16 mean not this, this data and sexual transmission was 17 discussed repeatedly. Now, this is slide 49. As I 18 said, the Padian study consisted of cross-sectional, 19 which are most of the reports and everything we have 20 discussed until now, and a prospective part. In the 21 prospective part she had 175 antibody discordant couples 22 and they were tested every six months. That is, she had 23 one couple was positive, that would mean discorting 24 couple, one couple was positive and the other was 25 negative, and she had 175 couples and they were 26

	discordant couples.	27
Q.	What do you mean by 'discordant'.	28
Α.	One of the partners was positive and the other was	29
	negative.	30
HIS	HONOUR	31
Q.	So you had couples and either the male or the female was	32
	positive.	33
Α.	Right. Now, nobody, in all this time she has done this	34
	study, became positive, although, even after so long in	35
	such an intensive education on safe sex, at the end of	36
	the study - at the beginning there was only 30% of	37
	couples who were using condoms and at the end of the	38

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	study only 75% reported consistent condom use in the six	1
	months prior to their final follow-up visit. So they	2
	are not practicing safe sex and they is still in the	3
	prospective study, which is much better, not 100% proof.	4
	She did not have anyone becoming HIV positive.	5
Q.	The next five slides relate to various studies conducted	6
	on haemophiliacs.	7
A.	Yes.	8
Q.	Can you just take us through those.	9
A.	Now, if anyone should have positive by now it is	10
	partners of haemophiliacs. Because by 1982 - because	11
	some haemophiliacs were tested because there were some	12
	haemophiliacs whose blood was taken from haemophiliacs	13
	as far back as 1982, but certainly about 1985, '84/'85,	14
	about 75% of haemophiliacs was testing positive. By	15
	that time there was no sexual education. So if anyone	16
	should be found positive, it is the haemophiliac	17
	partners. The first haemophiliac report, the first	18
	report of a haemophiliac partner being positive, was	19
	reported in 1985. It also found one partner of a	20
	haemophiliac to be positive and that was the only	21
	person, the only sexual partner who was found to	22
	practice anal sex, and they concluded 'It suggests that	23
	HTLV-III', that is HIV infection, 'may be facilitated by	24
	the practice of anal intercourse as it appears to be in	25
	homosexual men'.	26

XN		27
Q.	I'm not sure whether you made it clear but all of the	28
	haemophiliacs you were referring to were men.	29
A.	Yes, they are men. Again, one of the first reports, in	30
	fact I think it is the second report of a haemophiliac	31
	partner being infected, was published by Montagnier in	32
	1985. They were at the same time reported. This was a	33
	lady who practices, or a haemophiliac partner, and she	34
	was followed for 10 months. She practiced vaginal	35
	intercourse and anal intercourse and she was found	36
	positive. Then she was advised again of having sex, or	37
	if she was having sex, to have protection. She was	38

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followed up for 10 months after exposure to her	1
husband's semen was discontinued, and as I said, when	2
she was first tested, not only was she found positive	3
but she had low T4 cells. When she discontinued the	4
practice of anal intercourse and she was followed for 10	5
months, her T4 cell became normal and for positive	6
antibody test it became negative.	7
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	Slide 52: now	here you have another study from the	1
	Netherlands.	151 female partners of HIV positive	2
	haemophiliacs	from New York, Miami, Detroit, Seattle,	3
	San Francisco	and Los Angeles. Followed for 2.3 years.	4
	Condoms used f	or 6%, never 45%. 13 ladies became	5
	pregnant. Non	e became HIV positive. Sorry, this was	6
	from Californi	a. The other study was from the	7
	Netherlands.	11 HIV positive men had unprotected sex	8
	between 1,563-	2,250 times. No women became positive.	9
	Slide 53: agai	n haemophiliacs. 36 sexual partners of 66	10
	HIV positive h	aemophiliacs. 7 of the men had AIDS or	11
	AIDS-related c	omplex. 31 had sexual contact for at	12
	least 3 years,	20 of them for 8 years. All partners	13
	ELISA and WB n	egative. The follow-up was for 5 years.	14
	Slide 54: now,	here is another quote. There was quote	15
	'Although duri	ng 1987 the number of couples using	16
	condoms has in	creased through risk-reduction education,	17
	it does not se	em that the lack of seropositivity in the	18
	spouses is due	to a disproportionately higher use of	19
	barrier contra	ceptive devices'. 'The most likely value	20
	of the probabi	lity of infection, within 25.8 months for	21
	this group of	36 heterosexual partners is zero'.	22
MR I	BORICK:	The final three slides, conclusions, his	23
	Honour is able	to read for himself. Really why I am	24
	saying that is	-	25
HIS	HONOUR:	They are conclusions of the witness?	26

MR BORICK:	Yes.	27
HIS HONOUR:	I understand.	28
MR BORICK:	The only reason why I am just saying this	29
is that we can	get away in about five minutes and they	30
can get the fl	ight to Perth they are hopefully booked	31
on. Has your	Honour got any queries to make of her?	32
HIS HONOUR:	No.	33
MR BORICK:	They are her conclusions; straightforward	34
enough. That	concludes the examination-in-chief of	35
these two witn	esses.	36
HIS HONOUR:	Well, Ms McDonald, you have no objection	37
if the witness	es are released for the moment?	38

.VJF...00215 173 E.PAPADOPULOS-ELEOPULOS XN

HIS HONOUR: So you are free to go now.	2
NO FURTHER QUESTIONS	3
WITNESS STANDS DOWN	4
+THE WITNESS WITHDREW	5
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MS MCDONALD: Yes.

.VJF...00215 174 E.PAPADOPULOS-ELEOPULOS XN

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MR BORICK:
                  We have got a bit of housekeeping to do.
   Could I have a five minute adjournment to check on
                                                                2
    cases?
                                                                3
                  I will leave the bench for five minutes.
HIS HONOUR:
MR BORICK:
                  I take it we will be doing a bit of
                                                                5
    housekeeping.
                                                                6
HIS HONOUR:
                   I really want to ascertain - I assume
                                                                7
    from what you said you intend to call Dr Parada.
                                                                8
MR BORICK:
                   Yes. I think his evidence will be short.
HIS HONOUR:
                  I understand that but his
                                                               10
    cross-examination may not be quite as short.
                                                               11
    Ms McDonald, given that, what does the Crown wish me to
                                                               12
    do? What does the Crown suggest happen now? I know you
                                                               13
   have got witnesses organised but, do you want to start
                                                               14
    calling evidence before you have had a chance to absorb
                                                               15
    all of this material?
                                                               16
MS MCDONALD:
                  I am not going to suggest that the Crown
                                                               17
    should call its witness before cross-examination occurs.
                                                               18
    I think we are stuck with the situation that the next
                                                               19
    thing that needs to happen after the next witness is
                                                               20
    called is cross-examination of the applicant's witnesses
                                                               2.1
    and then I will call my witnesses. So, yes, it is going
                                                               22
    to be very difficult to reschedule them all, but I think
                                                               23
    we have no other choice.
                                                               24
HIS HONOUR:
                  Mr Borick, do you want me to leave the
                                                               25
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bench for a few minutes or get on with this discussion

now?		27
MR BORICK:	If you give me about four or five	28
minutes.		29
ADJOURNED 3.28 P.M		30
RESUMING 3.42 P.M.		31
HIS HONOUR:	Well Ms McDonald, we have to find another	32
date firstly w	hen - is it Dr Parada? Yes, Dr Parada can	33
be called.		34
MS MCDONALD:	Yes.	35
HIS HONOUR:	That is the first thing and two witnesses	36
can be cross-e	xamined.	37
MS MCDONALD:	Yes.	38

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HIS HONOUR:
                 I think probably they should be
                                                               1
    cross-examined before Dr Parada is called shouldn't
                                                               2
    they?
                                                               3
                  I am not too fussed about that.
MS MCDONALD:
                                                               4
MR BORICK:
                  Dr Helman Alfonso -
                                                               5
HIS HONOUR:
                  My affidavit says Helman Alfonso Sabdl
                                                               6
    Parada.
                                                               7
MR BORICK:
                  I don't know where the Parada comes from.
                                                               8
HIS HONOUR:
                  That is his name according to the
                                                               9
    affidavit.
                                                              10
MR BORICK:
                  What I want to do with him is - he
                                                              11
    details in his affidavit that he has read the evidence
                                                              12
   or knows about all the evidence that was given and
                                                              13
   agrees with it totally. I don't see the point in him
                                                              14
    just coming in and repeating all that has been said.
                                                              15
HIS HONOUR:
                 I understand that.
                                                              16
MR BORICK:
                  Then he is available for
                                                              17
    cross-examination.
                                                              18
HIS HONOUR:
                  I understand.
                                                              19
MR BORICK:
                  He is being called for that purpose
                                                              20
   because of your Honour's concerns you have raised about
                                                              2.1
    the issue of expertise.
                                                              22
HIS HONOUR:
                  I mean, who you call is a matter for you.
                                                              23
MR BORICK:
                  Very specific: he is being called because
                                                              24
    you raised that issue and we will meet it. That is the
                                                              25
    way I suggest we do that. Then I would have thought we
                                                              26
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	would need to r	move immediately into the	27
	cross-examinat:	ion of Ms Eleopulos. The big trick is	28
	finding the tir	me for that.	29
HIS	HONOUR:	Then, after the cross-examination of the	30
	three witnesses	s, we will have to move into evidence of	31
	your witnesses		32
MR I	BORICK:	I am wondering whether my friend has any	33
	idea of how lor	ng she is going to take. I know it is	34
	difficult.		35
HIS	HONOUR:	In cross-examination? I don't know.	36
	Indeed, do you	have any idea?	37
MS N	MCDONALD:	It is a bit difficult because I don't	38

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have a sense yet of how either of these witnesses will
                                                                 1
    answer questions. Certainly at least a day.
                                                                 2
MR BORICK:
                  For each one?
                                                                 3
                  For each of them.
HIS HONOUR:
                                                                 4
MS MCDONALD:
                  Very difficult.
                                                                 5
HIS HONOUR:
                   Knowing the way the wheels of the law
                                                                 6
    turn, I would have thought two days for the three
                                                                 7
    witnesses. Maybe even that is optimistic but at least
                                                                 8
    two days for the three witnesses I would have thought.
                                                                 9
    But now that we are going to have a break, you can have
                                                                10
    an opportunity A, to consider their evidence and B, to
                                                                11
    provide their evidence to your relevant experts so that
                                                                12
    they understand exactly what is now being put.
                                                                13
MS MCDONALD:
                                                                14
                   Yes.
HIS HONOUR:
                  Because it seemed to me on reading the
                                                                15
    reports, now I have heard the evidence, perhaps the
                                                                16
    reports don't entirely deal with the matters that have
                                                                17
    been dealt with in evidence, if they deal with them at
                                                                18
    all.
                                                                19
MS MCDONALD:
                  No, given the advice I have been given
                                                                20
    along the way there is some very short answers to some
                                                                2.1
    of this.
                                                                22
HIS HONOUR:
                   It may be that that is another issue.
                                                                23
    Well, I would think realistically we need what, two days
                                                                24
    for the completion of the defence witnesses and two or
                                                                25
    three days for your witnesses I would have thought at
                                                                26
```

	least.		2 /
MS 1	MCDONALD:	Longer I would have thought now. I would	28
	have thought re	ealistically the first couple they may	29
	take the longer	st because the larger number of issues	30
	would have been	n canvassed with those. I would have	31
	thought five wo	orking days.	32
HIS	HONOUR:	With addresses taking close to two weeks.	33
MS 1	MCDONALD:	Yes.	34
HIS	HONOUR:	Give or take a day or two.	35
MS 1	MCDONALD:	Yes.	36
HIS	HONOUR:	What is the availability looking like	37
	Mr Borick and D	Ms McDonald?	38

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MS MCDONALD:
                 I don't have any idea about movements of
                                                               1
    the witnesses at the moment.
                                                               2
HIS HONOUR:
                  I understand that.
                                                               3
MR BORICK:
                  At least get the cross-examination. We
                                                               4
   won't be able to set an agenda for prosecution
                                                               5
   witnesses. We will do the best we can.
                                                               6
HIS HONOUR:
                  We will do the best we can and I may have
                                                               7
    to have a directions hearing, but the first thing is
                                                               8
   look at your dates and then worry about - Ms McDonald,
   you are not available, you are starting a trial on the
                                                              10
    6th?
                                                              11
MS MCDONALD:
                  Yes, my situation is dreadful. I am
                                                              12
    starting a trial on the 6th listed to go until Christmas
                                                              13
   before David J. I don't think he will let me have two
                                                              14
   weeks off. I am free all of January and then I have a
                                                              15
   murder trial February, a murder trial March.
                                                              16
HIS HONOUR:
                 You may have to flick your February
                                                              17
   murder trial.
                                                              18
MS MCDONALD: It is a retrial, that is the only
                                                              19
   difficulty. If I have to, I have to, but it is a
                                                              20
   matter - I did the first trial - it has been sent back
                                                              2.1
    for a retrial by the Court of Criminal Appeal.
                                                              22
HIS HONOUR:
                  What matter is that?
                                                              23
MS MCDONALD:
                  That is the matter of Dunn, the one in
                                                              24
   which Anderson J gave an aid-memoire. I think your
                                                              25
   Honour may have been on the quorum.
                                                              26
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HIS	HONOUR:	I think part of it is one of my	27
	judgments. The	at is not a case that someone else can't	28
	pick up.		29
MS I	MCDONALD:	No, it is not something that someone	30
	can't pick up.		31
HIS	HONOUR:	There are certain cases where it is	32
	difficult for a	someone to pick up but I wouldn't have	33
	thought that fa	alls into that category, so someone else	34
	can do that.		35
MS I	MCDONALD:	They could.	36
HIS	HONOUR:	What are you like in February, Mr Borick,	37
	because it real	listically is not going to happen this	38

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year. I mean, I could give you a couple of days right
                                                                1
   at the end of December, running into Christmas, but that
   would then be dependent on Ms McDonald's trial being
                                                                3
    finished.
MR BORICK:
                  What is the reality for that?
                                                                5
MS MCDONALD:
                  Mr Lyons keeps saying it will go past
                                                                6
    Christmas. I say we have got David J so it will go less
                                                                7
    than two months.
                                                                8
HIS HONOUR:
                  It would have to be the week commencing
    18 December.
                                                               10
MR BORICK:
                  Could we at the moment pencil in those
                                                               11
    days?
                                                               12
HIS HONOUR:
                  I can pencil them in.
                                                               13
MR BORICK:
                  In a couple of weeks time we could have a
                                                               14
    directions hearing.
                                                               15
HIS HONOUR:
                   I can pencil in a couple of days in that
                                                               16
    week and I can indicate to you that you can pencil them
                                                               17
    out right up to that week because it is not a week in
                                                               18
    which I have listed anything and I am not listed to be
                                                               19
    sitting that week. So, from the court's point of view I
                                                               20
   am happy to list it in that week and we will just see
                                                               2.1
   how Ms McDonald's trial is going I suppose.
                                                               22
MS MCDONALD:
                  I am content with that, yes.
                                                               23
HIS HONOUR:
                  Well, is it proposed that the witnesses
                                                               24
    are going to come back? I mean, I would prefer if they
    did.
                                                               26
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MR	BORICK: I don't know. They heard that too. In	27
	the bag is another thing. As I said right at the	28
	outset, they are not people who have had anything to do	29
	with the courts at all and they just don't have any	30
	understanding of what we are talking about most of the	31
	time in terms of our procedures. I will be certainly	32
	doing my very best to get them back.	33
HIS	HONOUR: They are not released you see. They	34
	don't really have a choice. Someone is going to have to	35
	explain that to him. They have a choice about dates.	36
MR	BORICK: The release - if we could do it via video	37
	if we can't get them back - I mean, my client has very	38

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limited finances. That is another thing.
                                                               1
HIS HONOUR:
                  The video costs money as well.
                                                                2
MR BORICK:
                  From what I can understand it would be an
    awfully lot cheaper than the flights. That is my worry.
HIS HONOUR:
                  I understand.
                                                                5
MR BORICK:
                  Perhaps if we get the dates and then I
                                                                6
    will work around that.
                                                                7
HIS HONOUR:
                  Well, I could pencil it in to start at
                                                               8
    say 10.30 on Tuesday, 19th. I could start on Monday,
    18th if you wanted me to, but I thought Tuesday, 19th
                                                              10
    and Wednesday, 20th.
                                                               11
MR BORICK:
                  As good a guess as any for that week.
                                                              12
HIS HONOUR:
                  Do you want me to start on the Monday?
                                                              13
MR BORICK:
                  Let us take the Tuesday and Wednesday.
                                                              14
HIS HONOUR:
                  Tuesday, 19th and Wednesday, 20th.
                                                              15
   Ms McDonald, shall we revisit it towards the end of
                                                              16
   November, those two particular days?
                                                               17
MS MCDONALD:
                  Yes, happy with that.
                                                               18
MR BORICK:
                  With liberty to call it on. I will keep
                                                               19
    in touch with my friend.
                                                               20
HIS HONOUR:
                  That is all right, I don't need to bring
                                                               2.1
    you back. If someone can let me know though. I suppose
                                                               22
    I can always march into David J's office and ask him
                                                               23
   but perhaps if someone can let me know positively say by
                                                               24
    Tuesday, 12th if it is on or it is off.
                                                               25
MS MCDONALD:
                 12 December?
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HIS HONOUR:	Yes, that is a week before.	27
MS MCDONALD:	Yes.	28
HIS HONOUR:	All right. Can you put it in the diary.	29
CONTINUED		30
		31
		32
		33
		34
		35
		36
		37
		38

As far as setting a date -	1		
MS MCDONALD: Is there any reason why we couldn't			
continue on that week, starting the prosecution	3		
witnesses? I just spoke very briefly with Professor	4		
McDonald who would be available Thursday the 21st,	5		
Friday the 22nd, if that assists in just getting through	6		
this.	7		
HIS HONOUR: Yes.	8		
MR BORICK: That is good.	9		
HIS HONOUR: I'm prepared to do that. So we will set	10		
the four days aside.	11		
MS MCDONALD: Maybe just the three.	12		
HIS HONOUR: Tuesday, Wednesday, Thursday and, if	13		
necessary, Friday.	14		
MS MCDONALD: Yes, to finish the particular witness.	15		
But I won't organise any new witnesses for the Friday.	16		
HIS HONOUR: No, all right. I can give you the week	17		
commencing the 5th, but from the 6th. It's really the	18		
week commencing 5 February, or the week commencing 29	19		
January, I think.	20		
MS MCDONALD: If we do that week I can probably get	21		
that other trial pushed back.	22		
HIS HONOUR: I don't think I can do it on the 29th but	23		
I think I can do it from the 30th, that's the Tuesday.	24		
What are your movements Mr Borick?	25		
MR BORICK: That will be all right. Early February,	26		

yes.		27
HIS HONOUR:	Actually, 30 January.	28
MR BORICK:	Yes.	29
HIS HONOUR:	Yes, 30 January I can set it. So if I	30
allow what, fo	our days for that week?	31
MS MCDONALD:	And perhaps the following Monday as well,	32
maybe, for add	resses. I'm really just being cautious.	33
HIS HONOUR:	Yes, I will do that, but that might just	34
depend on what	the Chief Justice is listing, but I will	35
tentatively pe	encil it in. Tuesday, 30 January for five	36
days, up to Mo	onday the 5th. Mr Borick?	37
MR BORICK:	Yes. Another suggestion I could make to	38

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your comment that the reports from the prosecution
                                                                 2
    witnesses is like ships passing in the night from the
                                                                 3
    stuff that we have been presenting. I've been hoping,
                                                                 4
    them being expert witnesses, if that is to be their
                                                                 5
    evidence-in-chief, then accept a report like that and go
                                                                 6
    straight to the cross-examination which would save
                                                                 7
    Professor McDonald time and Professor French is going to
                                                                 8
    be just the same possibly as the other people. So we
                                                                 9
    might be able, with a bit of flexibility, that if there
                                                                10
    are to be other further reports, which are going to
                                                                11
    constitute the evidence-in-chief, we can isolate where
                                                                12
    the areas of conflict are going to be, that would be a
                                                                13
    help to all of us.
                                                                14
HIS HONOUR:
                   Ms McDonald I was going to raise that
                                                                15
    with you. If, once you've considered this evidence and
                                                                16
    you want to produce any supplementary reports dealing
                                                                17
    with it, that might be helpful.
                                                                18
MS MCDONALD:
                   Yes. But I can tell your Honour given
                                                                19
    what we have listened to in recent days, I will be
                                                                20
    proposing to lead these witnesses in chief, I won't be
                                                                2.1
    relying on their reports in evidence-in-chief. I think
                                                                22
    your Honour is going to have to make some credibility
                                                                23
    findings and in that case I would propose to lead the
                                                                24
    witnesses.
                                                                25
                  Certainly, I can understand that, but it
HIS HONOUR:
                                                                26
```

your Honour is that a couple of times I've picked up on

still might be of assistance, even if you intend to lead	27
them, if there are some supplementary reports dealing	28
with the material, because if you provide reports then	29
you can lead them in a much more shorthand way than if	30
there are no reports at all and it also facilitates	31
Mr Borick's ability to cross-examine.	32
MS MCDONALD: I appreciate that.	33
HIS HONOUR: So I think that if you're going to	34
supplement their evidence if I could have some	35
supplementary reports and if they can be provided to	36
Mr Borick. I won't put any time limits on it, but	37
perhaps at least a week before they're called.	38

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MS MCDONALD:	Yes.	1
HIS HONOUR:	That will give me a chance to read the	2
material as well	l, that would facilitate you leading	3
them. If that o	could be done.	4
MS MCDONALD:	Yes.	5
MR BORICK:	With regard to the sentence option that	6
your Honour rais	sed, I think that really should wait	7
unless -		8
HIS HONOUR:	Nobody is suggesting that I should at	9
this stage and	if we can complete this by February I	10
will leave the r	matter as it stands.	11
MR BORICK:	I just think it's going to be too	12
difficult.		13
HIS HONOUR:	Yes, Mr Borick I'm not proposing to.	14
MR BORICK:	Yes, thank you.	15
ADJOURNED 4.04 P.M.	TO TUESDAY, 19 DECEMBER 2006 AT	16
10.30 A.M.		17
		18
		19
		20
		21
		22
		23
		24
		25

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