

COURT OF CRIMINAL APPEAL 1

SULAN J 2

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TUESDAY, 30 JANUARY 2007 6

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RESUMING 10.10 A.M. 8

+ELENI PAPADOPULOS-ELEOPULOS CONTINUING. 9

+CROSS-EXAMINATION BY MS MCDONALD 10

Q. Ms Papadopulos this morning I want - 11

HIS HONOUR: I should remind you Ms Papadopulos you're 12

still under oath. 13

XXN 14

Q. This morning I want to start off by asking you some 15

questions about some discrete topics that arose in the 16

evidence you've previously given and then I wanted to 17

move on to with pick up where we left off on the last 18

occasion, that is going through the various articles you 19

relied on for your sexual transmission power point 20

presentation. I want to remind you of something you 21

told us on the last occasion you gave evidence, p.253. 22

The question starts at line 3. You were asked this 23

question 'Martyn French is an expert who is in Western 24

Australia, based in Western Australia like yourself'. 25

This was your answer 'Of course I know him. I know him; 26

we have been in two different camps with regard to HIV. 27  
He has always been, like many HIV experts, he has always 28  
been very polite. From 1984 we agreed to disagree that 29  
HIV exist and is the cause of AIDS but we have been 30  
always - like many HIV experts he's always been very 31  
polite. As I've said, we try to collaborate and do 32  
experimental work together'. Firstly, do you agree that 33  
is the answer you gave to that question on the last 34  
occasion. 35

A. Yes. 36

Q. When you told this court that your relationship with 37  
Martyn French was such that you tried to collaborate and 38

do experimental work together, what you were you talking 1  
about. 2

A. We have designed some experiments to show, to prove that 3  
one of the prediction of our theory, that is that 4  
patients could develop AIDS, induce AIDS, they have - 5  
they are oxidised, relatively to - their tissue is 6  
oxidised relatively to normal individuals, to healthy 7  
individuals. We wanted to do that for long time but we 8  
never get any money. Then Dr Turner's father donated us 9  
\$10,000 to try and do this experiment and we ask 10  
Professor French if he will collaborate with us and the 11  
documents are there, we have many letters, many exchange 12  
letters. He agreed to collaborate. In fact, he asked 13  
one of his registrars to help us in collecting the blood 14  
and we are trying to develop the test, and we did 15  
develop the test and this is just a preliminary study. 16  
Unfortunately the money, the \$10,000, can't go too far 17  
these days and we have to stop the collaboration and the 18  
test, but, yes, we did agree - he agreed, in fact he 19  
agreed to be a co-author of any paper which result from 20  
this study, but he has to read the interpretation and 21  
agree with that which would be all right. 22

Q. So when you say 'we have designed some experiments to 23  
prove one of your predictions', who is the 'we' you are 24  
talking about. 25

A. It was me, that was my theory, my theory predicted that 26

AIDS patients would be relatively oxidised, their 27  
tissues would be oxidised and this prediction, I must 28  
say it, has been proven by several people who do HIV 29  
research and the best prediction - the best proof came 30  
from researchers from Germany and from the University of 31  
Stamford. They had a couple of immunologists who worked 32  
at the University of Stamford and their evidence, they 33  
have been shown that oxidation is a much better 34  
prediction of AIDS development than actual decrease in 35  
CD4 cells. 36

Q. So I'll go back to the question I actually asked you, 37  
that is when you talked about 'we have designed some 38

experiments' you weren't suggesting, were you, that 1  
Professor French was involved in designing those 2  
experts. 3

A. No, I just said the group, and Professor French agreed 4  
to collaborate with us. 5

Q. I suggest that all Professor French did was let you have 6  
some blood samples, that was the extent of the 7  
collaboration and doing the experimental work together. 8

A. Not only that, he agreed to be a co-author of the paper. 9  
We have the letter where he responded. 10

Q. Any other, as you put it, collaboration. 11

A. He wouldn't collaborate in any other different way 12  
because we were doing the test. The test was developed 13  
in the Department of Medical Physics with money by 14  
Dr Turner's father. 15

Q. Any other collaboration and conducting experiments work 16  
with Professor French that you can tell us about. 17

A. No. 18

Q. I want to take you to another topic that was dealt with 19  
in your evidence on the last occasion and it relates to 20  
blood transfusions, p.287. Just to put this into some 21  
context for you, I was asking you some questions at this 22  
stage about blood transfusions, screening of blood and 23  
blood transfusions and a particular Sydney case in which 24  
a child was given a blood transfusion and then diagnosed 25  
as being HIV positive. Just to take you to the general 26

topic. 27

A. Yes, I know; I know the Sydney case, the Sydney cohort, 28  
the blood transfusion Sydney cohort. 29

Q. At line 23 - sorry line 16 I asked this question, 'Are 30  
you aware of the case' and you gave this answer 'I'm 31  
aware that people who are given blood, and this is 32  
accepted even by Elizabeth Tucks and by many other HIV 33  
experts, that people who are given blood, including 34  
Professor Calici, one of the best HIV researches is in 35  
Italy, says that blood transfusion leads to causative 36  
antibody tests'; do you agree that is the answer. 37

A. I agree. 38

Q. Was it your evidence that a blood transfusion of itself 1  
can result in a person reacting positively to an HIV 2  
test. 3

A. Yes. Dr Colizzi's information proved, and he's a 4  
collaborator with Montagnier in this study, but he 5  
collaborates with many other studies with Montagnier, 6  
and he himself has shown that. 7

Q. Your evidence is the act of the blood transfusion can 8  
cause someone to give a positive reaction to an HIV 9  
test. 10

A. Yes. 11

Q. How does that work, by what mechanism. 12

A. Blood is full of antigens and when you do a blood 13  
transfusion you take antigen from one person and you 14  
give this antigen to another person and when foreign 15  
proteins come into our body, we develop antibodies, so 16  
people who are transfused, and especially who are 17  
repeatedly transfused like people with thalassemia, 18  
develop antibodies and these antibodies react with the 19  
proteins which are in the so-called HIV test. It's very 20  
simple. 21

Q. Let's add to that the epidemiology. Isn't it the case 22  
that when these people who have had a blood transfusion 23  
and given a positive reaction to an HIV test have been 24  
looked at, a pattern of clustering of infections has 25  
emerged. Have you heard of that. 26

A. No. All they do is when a person is given a blood 27  
transfusion, sometimes they go back. If a person is 28  
sick and the people are given a blood transfusion 29  
because they are sick, healthy people are not given a 30  
blood transfusion, the vast majority, I think 50% of the 31  
people who are given blood transfusion in the US die 32  
within one year; they are very sick people. So 33  
sometimes when these people, the experts go and look 34  
where the blood came from when they test these patients 35  
and they found - sometimes they found people who donated 36  
the blood were themselves HIV positive. Yes, that 37  
happens. 38



Q. What do you understand by the term 'clustering of infections'. 1  
2

A. Clustering of infections would mean that you find only a group of people who test positive. 3  
4

Q. Who had sexual contact with each other. 5

A. We are talking about blood transfusion? We are talking about sexual transmission? 6  
7

Q. Let me make it plain. 8

A. The two things are different. 9

Q. What I am suggesting to you is that epidemiological studies are littered with examples in which someone who has had a blood transfusion is diagnosed as being HIV positive and when one goes back and looks at the people they have had sexual contact with, there is a cluster of people who are in fact HIV positive. 10  
11  
12  
13  
14  
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A. It is not a cluster, only one person. You find one person who donated the blood was positive. When they give blood transfusion usually they take it from not that many people, two or three, and one of them could be positive. The donors are not clusters. 16  
17  
18  
19  
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Q. I want to move on to a different topic. Did you happen to hear the radio news this morning. 21  
22

A. No. 23

Q. Are you aware that it was announced this morning that the federal government had just committed \$10 million to a national public education campaign that HIV is 24  
25  
26

sexually transmitted. 27

A. Maybe, I don't know. 28

Q. Are you aware that last year there was an increase of 29  
41% in the number of people diagnosed as being HIV 30  
positive in Australia. 31

A. Yes, I did hear that, and maybe there's a good 32  
explanation for that. 33

Q. The explanation that's been accepted by the government 34  
in proposing the \$10 million I suggest is that there has 35  
been less emphasis in recent years on an education 36  
campaign about sexual transmission and that people have 37  
become complacent in their sexual habits. 38

A. Why did they become complacent? It is because Professor 1  
McDonald in his document at one point here says that 2  
antiretroviral controls HIV transmission. That's in 3  
Australia. I think I am correct in saying that the 4  
people who have the increase in the incidence of a 5  
positive antibody test is mainly in gay men. So the gay 6  
men, by making these kind of claims, they have stopped 7  
practising safe sex and that led to an increase in a 8  
positive test. 9

Q. But the increase hasn't just been in gay man, has it. 10  
There's an increase in the number of women who were 11  
diagnosed last year. 12

A. How many women? 13

Q. Let me finish. 14

A. Everything is relative. They say, and I read it in many 15  
newspapers, and I have heard it on the news, that the 16  
main group is in gay men. In fact, they admit it is 17  
because they are not practising safe sex; that's the 18  
reason. Yes, we agree that they are increased and yes, 19  
we agree we should spend more money to educate people 20  
for safe sex. We are in full agreement there. 21

Q. You agree that heterosexuals should be given the same 22  
education. 23

A. If they practise, doesn't matter, it's not important if 24  
it's heterosexual or is homosexual or gay men, it is the 25  
same thing. There is more women - nomadically there are 26

more women who practise anal intercourse than gay men 27  
who practise passive anal intercourse. The question is, 28  
as I said before, it's not sexual orientation or sexual 29  
practice, it is the frequency of anal intercourse in 30  
heterosexuals and the passive anal intercourse in gay 31  
men, the frequency. 32

Q. So when you say that you agree completely that there 33  
should be education about practising safe sexual 34  
intercourse, what you are really saying is that 35  
education needs to go no further than practising safe 36  
sexual intercourse when you are the receptive partner in 37  
anal sex. 38

A. Yes. 1

Q. Because there's no risk according to you. 2

A. This is not what I said, this is what the HIV experts 3  
have shown, it's not me. This is evidenced by every 4  
single study which has been performed in heterosexuals 5  
or in gay men. That's what the conclusion is. The only 6  
practise which is a risk factor for the development of a 7  
positive test is anal intercourse in heterosexual women 8  
and in gay men, passive anal intercourse. Let me give 9  
you - I have shown this in all my sexual transmission 10  
studies, but I omitted one study which was published in 11  
Australia by Australians. 12

Q. Before we go any further, what are you looking at. You 13  
put a document in front of yourself there. What are you 14  
looking at. 15

A. I'm looking at a paper of Australia which was published 16  
by Professor Ian Fraser. Last year he was Australian of 17  
the Year, his collaborators in the medical journal of 18  
Australia 944 of 186. 19

Q. Is this an article you have previously relied on in your 20  
evidence. 21

A. I did not put this evidence previously but - 22

Q. It's one that we have not seen, you have not produced it 23  
for us. 24

A. I produce the article, it's no problem to produce it. 25  
You gave so many articles here which you never produced 26

them before. You gave us many articles. You always 27  
give me the evidence in front here and I did not object 28  
to that, and here is an article published by Australians 29  
in the Medical Journal of Australia. If you want the 30  
article, do it, and I am quoting. 31

Q. Do you have the whole article there. 32

A. Not here. 33

Q. What do you have in front of you, what is that document 34  
in front of you. 35

A. This one? 36

Q. Yes. 37

A. The article is in my office. 38

Q. This is a passage that you have excised from an article 1  
that you want to read from. 2

A. I'm quoting from there, I am not misinterpreting. I am 3  
not making my interpretation, I am not doing nothing, I 4  
am quoting from an article published in the Medical 5  
Journal of Australia by last year's Australian of the 6  
Year. 7

Q. Do you have the full article with you. 8

A. Not with me. 9

Q. So you brought that one page, that little passage that 10  
you have taken out of an article for the purposes of 11  
giving your evidence today. 12

A. I cannot bring all the articles here. If you come 13  
you'll see not only my office, but my laboratory and my 14  
colleagues' offices are full with my articles, can't 15  
bring them all here. 16

Q. How long is the article. 17

A. It's a short article. I can't remember now; it's a few 18  
pages. 19

Q. But you only chose to bring that one page of yet another 20  
excised passage from an article to give evidence in this 21  
court. 22

A. So what's wrong with that? I cannot see - I am saying 23  
what they are saying and I'm quoting, I'm putting it in 24  
quotes. 25

Q. What I suggest is wrong, and we'll come to the other 26

articles in a moment, is that throughout your evidence 27  
you have excised parts of articles and misrepresented 28  
what the authors are actually saying. 29

A. We've been quoting all the way. You cannot misrepresent 30  
quotes. 31

Q. And more than that - 32

A. Tell me which? Sorry, but you have to tell me, you have 33  
to tell me what we misrepresented. 34

Q. We'll go to the other article. 35

A. The request cannot be like that, you have to tell me 36  
what it is, you have to present evidence. With all due 37  
respect, in science we believe only in data, in 38



evidence. 1

Q. We'll go to the articles in a moment one by one. Let me 2  
put this to you: in your presentation on sexual 3  
transmissions you relied on a number of different 4  
articles written by different authors and I suggest not 5  
one author that you relied on in that presentation 6  
supports your theory that HIV is only transmitted via 7  
receptive anal intercourse. 8

A. Which is the author, could you please tell me? 9

Q. I suggest not one author supports you in that 10  
conclusion. 11

A. Now, first of all, I present their data, I believe in 12  
the data. Scientists believe the data, not on their 13  
interpretation, the data, and that's what the data 14  
shows. Secondly, I would like you to tell me where are 15  
the authors who deny their findings? 16

Q. I go back to the question. Do you agree - 17

A. I like you to tell me. You say that I misinterpret so I 18  
would like you to tell me which are the authors who say 19  
that I misinterpreting their findings. 20

Q. We'll come to that in a moment. What I am asking you 21  
first of all is a general question. Putting aside what 22  
use you made of their data, what I am actually asking 23  
you is do you agree that not one of the authors of the 24  
reports that you relied on for your presentation on 25  
sexual transmission agrees with your conclusion that 26

it's only transmittable via receptive anal intercourse. 27

A. Is not my conclusion, is their conclusion. 28

Q. It's your conclusion. 29

A. No, I put their conclusion. Their conclusion is passive 30  
anal intercourse, passive anal intercourse. All the 31  
studies in gay men and heterosexuals end up by saying 32  
passive anal intercourse. It's not my conclusion, is 33  
their conclusion, and we quoted them. 34

Q. It is your conclusion - 35

A. No. 36

Q. Please let me finish the questions or we're going to be 37  
here a long time. 38

A. Sorry. 1

Q. It has been your evidence, evidence of an expert 2  
witness, that in your opinion HIV is only transmitted 3  
via receptive anal intercourse. It is your conclusion, 4  
isn't it. 5

A. Not HIV. To say that HIV - I don't admit that HIV is 6  
transmitted. To say that HIV is transmitted I have to 7  
have evidence that HIV exists, and no such evidence 8  
exists today, but I do agree all the data, all the 9  
evidence today shows that the risk factor for the 10  
acquisition of a positive test is passive anal 11  
intercourse. 12

Q. Coming back to sexual transmission in a moment because I 13  
want to deal with the articles in sequence, I want to 14  
move on to another topic that we dealt with in your 15  
evidence on the last occasion. P.291, this relates to 16  
the issue of the transmission of HIV from a mother to a 17  
child. Let me just remind you of your evidence from the 18  
last occasion. I want to ask you some questions about 19  
it. At about line 30 'Q. Do you accept that mothers who 20  
are HIV positive have children who are tested at birth 21  
and are also HIV positive'. Your answer was this 'Yes, 22  
if the mother is positive. If the mother has antibodies 23  
which react with the HIV test kit, then the child will 24  
have the same antibodies because the antibodies are 25  
transmitted through the placenta and it will be there 26

until the child becomes about nine months. The mother's 27  
antibody will be in the child, so up until nine months 28  
we expect that - at birth all of them will be positive, 29  
and after nine months we will have none'. First, do you 30  
agree that was the question that was asked and the 31  
answer that you gave. 32

A. Yes. 33

Q. I suggest you are right about that, that the child does 34  
receive antibodies from its mother and those antibodies 35  
remain in the system for about nine months, but that is 36  
the reason that when children who are born to HIV 37  
positive mothers are tested, they are tested using 38

nucleic acid, not looking for antibodies. Do you agree 1  
with that. 2

A. Yes, I agree with that, but what the test is showing, 3  
because first of all to prove a child is positive, if 4  
you read, we have written a lengthy monograph. We have 5  
it with us but not here. We have studied - if we omit 6  
any study disease the omission was inadvertent. We have 7  
analysed every single study we could find on mother to 8  
child transmission and there we have shown that at 9  
present there is no evidence, even if we assumed that 10  
HIV exists, that there is a transmission of this virus 11  
from the mother to the child or that the antiretrovirus 12  
decrease or lower this in transmission. The test they 13  
are doing is antibody test and with antibody tests, as I 14  
said, the antibodies from the mother go to the child and 15  
if the mother tests positive, then the child will test 16  
positive, and all HIV experts, virologists, agree that 17  
these antibodies should disappear by nine months. So if 18  
a child has a positive antibody test, up until nine 19  
months it's impossible to say if this child is infected 20  
with HIV and the antibodies are made by the child or 21  
they are the mother's antibodies which are present in 22  
the child. So instead of using, and this is admitted by 23  
everyone, instead of using this criteria for the 24  
antibody test, they use other criteria for showing that 25  
the child is infected. Sometimes - and most of the 26

times in fact in Africa it is disease. If the child is 27  
sick, then they say 'Aha, the antibodies are HIV 28  
antibodies and the child is infected'. The other test 29  
most often used is viral load. However, viral load, 30  
according to the CDC and according to the manufacturers, 31  
cannot be used to prove infection with HIV, so they are 32  
using a test which the manufacturers and the CDC say 33  
that it cannot be used to prove infection, but the CDC 34  
then goes and says viral load cannot be used to prove 35  
infection in adolescents, in adults or even in children 36  
to prove infection, for example, through transfusion, 37  
but it can't be used to prove infection of the child for 38

transmission from the mother to the child. If a test 1  
cannot be used anywhere else, and cannot be used even to 2  
prove infection of a child, for example, via blood 3  
transfusion, how can you use it to prove infection by 4  
the mother? It makes no sense, so the test you are 5  
using, we have not got tests. There is a European 6  
study, which I have the study with me, and if you want 7  
to, I show it to you and discuss that study; if a child 8  
tests positive after nine months since the mother's 9  
antibodies are lost after nine months, and if the 10  
antibody tests are HIV, once infected with HIV you are 11  
always infected, no matter if you are or you are not 12  
treated with the antiretrovirus, these children who test 13  
positive at nine months should continue testing positive 14  
forever, and this is not happening; about 50% of the 15  
children lose their antibodies after nine months. 16

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E. PAPADOPULOS-ELEOPULOS XXN



Q. I suggest to you that most children in the womb who are 1  
diagnosed as being HIV positive using nucleic acid tests 2  
developing antibodies looking at nucleic acid, most 3  
children who are diagnosed by the age of six months are 4  
dead by the age of 15. What do you say to that 5  
statistic. 6

A. No, I would not say that. As I said, nucleic acid is - 7  
nucleic viral load is nucleic acid, and I said that is 8  
not be used. 9

Q. Do you reject that statistic as true. 10

A. I reject it is proof. It is not I reject. That's what 11  
the CDC - that's what the manufacture says, you cannot 12  
use to prove infection, you cannot use even to prove 13  
infection of a child. If the infection is, for example, 14  
by blood transfusion, how can you use it to prove 15  
infection by the mother? It's the same virus. 16

Q. Assume for a moment that statistic is in fact correct, 17  
so assume that most children that are diagnosed as being 18  
HIV positive, by the time they are six months of age, by 19  
nucleic acid testing are dead by the age of 15, doesn't 20  
that suggest some sort of link between the diagnosis of 21  
being HIV positive and death. 22

A. No, no, no. That doesn't assume that HIV - you cannot 23  
assume that - first of all, as we said, if the antibody 24  
tests do not prove HIV infection, even if it proves HIV 25  
infection, you cannot say, unless you have evidence, 26

that HIV causes the disease and the death, you cannot 27  
say that. You cannot say they die because of HIV. If 28  
you say that there is a relationship between a positive 29  
test and healthy outcome, I totally agree. You don't 30  
make antibodies. If you are well, if you are healthy, 31  
antibodies are made there for a reason. So yes, we 32  
totally agree there is a relationship between - we said 33  
it before and I am repeating it - there is a 34  
relationship between a positive antibody test and some - 35  
it's associated between unhealthiness, shall I say it, 36  
and a positive test but not that they die from HIV 37  
infection, no. 38

Q. You just said you accept there's a link between a positive antibody test and some unhealthiness. 1  
2

A. I say some future, some future or present - some future or present abnormality. 3  
4

Q. What sort of abnormality. 5

A. Can be anything. 6

Q. Anything. 7

A. Yes. If a child dies in Africa from diarrhoea and it tests positive, it dies from HIV infection. African children, you know, they die from diarrhoea all the time. 8  
9  
10  
11

Q. It would be a very rare case, indeed, that a child's death is put down to diarrhoea. It's normally the underlying - 12  
13  
14

A. There are signs. It's not a disease. In Africa the Bangui definition does not require an illness. You can have AIDS just by having some signs and symptoms, not disease. You don't have to have a disease. 15  
16  
17  
18

Q. Isn't it the case that research has shown that where there is an HIV positive mother, so a mother who's tested positive to the test for HIV, who is not on any sort of medication, has a 30 to 40% chance of having a child who also tests positive for HIV using the nucleic acid tests. 19  
20  
21  
22  
23  
24

A. No. 25

Q. So that's the statistic. In a mother diagnosed with 26

HIV, receiving no medication, if she has a child, that 27  
child has a 30 to 40% of also having a viral load of 28  
HIV. 29

A. No, there is no such studies. There are no such 30  
studies. 31

Q. Do you agree that one of the great achievements, if you 32  
like, of the antiretroviral medication is that that 33  
statistic has been reduced right down now to a point 34  
where we can almost stop a mother passing on HIV to a 35  
child. 36

A. Definitely don't agree on that. We have analysed that 37  
very thoroughly and there is no such evidence. We have 38

published on that. There is no such evidence. There 1  
have been only two studies conducted so far, one on AZT 2  
and one of Nevirapine. None of these studies have there 3  
- to do that kind of studies you have to have randomised 4  
blind control studies, and no such studies exist. 5

Q. Wasn't there a study conducted in I think it was Africa 6  
but wasn't there a study conducted that had to be 7  
stopped in relation to this because of ethical issues; 8  
are you aware of that one. 9

A. Ethical issues? 10

Q. Firstly, are you aware of a study into the issue of 11  
transmission of HIV from a mother to a child that had to 12  
be stopped because of some ethical concerns. 13

A. They say there are. They have the studies have to be - 14  
for example Nevirapine studies, the authors said 'We are 15  
going to do blind randomised blind control studies to 16  
prove that Nevirapine stops mother to child 17  
transmission', but in no time after 19 - had 19 cases, 18  
they stop the placebo. You cannot - and the principal 19  
author of that study said after, that you cannot prove 20  
if your treatment is better than nothing unless you have 21  
a placebo. That is the principal author of the 22  
Nevirapine study. 23

Q. Is the study that you are referring to a US study that 24  
was called 076. 25

A. 076, no, that is the AZT study. 26

Q. What I'm suggesting is there was a study that was 27  
embarked on called 076 in which one group of pregnant 28  
women were given antiretroviral medication and another 29  
group were given a placebo. 30

A. Yes. 31

Q. The results were so stark that the study was put to an 32  
end, that is that so many women who were given the 33  
placebo passed on the virus as compared to those who 34  
were given the medication. 35

A. No, as I said, this study is very thoroughly analysed 36  
and, if you like, I will give you our analysis of that 37  
paper. That paper is not - does not prove the 38

inhibition of transmission by AZT from the mother to the 1  
child. The analysis is very thorough. No, that study 2  
does not prove it. 3

Q. Isn't that what happened, that this study was 4  
undertaken, embarked upon and then stopped because of 5  
ethical concerns about not providing antiretroviral 6  
medication to some others. 7

A. That's what they say. 8

Q. That's what actually happened. 9

A. That's what they say, not did not happen. They did stop 10  
the study but the studies have been stopped but not 11  
because there is evidence that there is proof for, as I 12  
said, you have to have the tests. Don't forget you have 13  
to have the tests and you don't have the tests, one, 14  
secondly, for AZT, one of the main objections to this 15  
study is that for AZT to stop transmission, to have any 16  
antiretroviral effect, AZT has to be transfer related, 17  
there is a change for relation. Right. So AZT has to 18  
be transfer related. AZT is given as a proper drug, so 19  
it has to be transfer related. It has to get there, to 20  
have any antiretroviral effect. 21

Q. Are you aware that in this State every pregnant woman 22  
must have an HIV test, it is compulsory. 23

A. Yes. 24

Q. Do you know of one the reasons for that. 25

A. To give antiretrovirals to women, if the woman is found 26

positive and to the child. 27

Q. That's right, so that every unborn child has the chance 28  
of receiving antiretroviral medication so they don't 29  
become HIV positive. 30

A. No, no, there is no evidence that - let's point it 31  
again. There is no evidence for the existence of HIV, 32  
there is no evidence of mother to child transmission. 33  
There is no evidence for the antiretroviral inhibiting 34  
it. 35

HIS HONOUR 36

Q. So if the policy is to give AZT to pregnant women who 37  
test positive, is it your evidence that that's just a 38



waste of resources. 1

A. Yes, yes. Your Honour, you have to have evidence and 2  
the only evidence we have is this study 076 and there is 3  
no evidence, there is no proof, there is no proof, that 4  
AZT inhibits transmission and it is impossible to do it 5  
because AZT is given to the mothers and to the child. 6  
Just take one problem with that 076 study. AZT is given 7  
to both, to the mothers and the child as a proper drug. 8  
That is given in a form which is not biologically 9  
active. To be biologically active it has to be modified 10  
in the body. And today, we have conducted very thorough 11  
analysis of AZT and its use. And there is no evidence, 12  
not even one single paper, which showed that in the body 13  
AZT is transformed from a proper drug to an active drug. 14  
So it cannot be. Now, this said, in this paper which 15  
was published as part of a current medical research 16  
journal because it was a very lengthy, very thoroughly 17  
examination of AZT, we say - we do not say that AZT 18  
cannot have any beneficial clinical effects. We do not 19  
know that. But if there is any effect, if there's any 20  
clinical effect, if there is - we are not saying that 21  
there is - if there is, we are not saying either it 22  
should not be given, if it has any beneficial clinical 23  
effect, let's give it, but it cannot be, it's effect 24  
cannot be as anti-HIV drug. It just cannot have an 25  
effect on HIV. 26

XXN 27

Q. Let me ask you this question: assume for a moment a 28  
woman comes to you and she tells you that she's been 29  
diagnosed as being HIV positive and that she's pregnant 30  
and she's heard of your knowledge on HIV and wants you 31  
to give her some advice about whether she should take 32  
antiretroviral medication. What would your advice be. 33

A. I wouldn't advise a patient. We get many such requests. 34  
We never give advice to patients. 35

Q. So you'd sit on the fence, would you. 36

A. Sorry? 37

Q. So you'd sit on the fence. 38

A. No, we are not sitting on the fence. We are not 1  
treating patients. We are scientists. We are not 2  
treating patients. The patient can go to a physician 3  
and if she knows about us, then she will discuss the 4  
problem with the physician and agree with them what 5  
should be done and what should not be done. We cannot 6  
treat patients from all over the world. We are getting 7  
requests all day, every day. We cannot treat patients 8  
full stop. 9

Q. Putting aside what you actually would or wouldn't tell 10  
her if that woman came to you and asked for that advice, 11  
you say 'I'm not going to give it to you because I 12  
don't' - in your opinion your private view would be 13  
you're thinking it's a waste of time to take the 14  
antiretroviral medication. 15

A. If I was pregnant, put it this way, if I was pregnant 16  
and I'm told that I am HIV positive I won't take any of 17  
these drugs and I won't give it to the child either. 18

Q. Would you have unprotected vaginal sexual intercourse 19  
with a male who was HIV positive. 20

A. Any time, any time. 21

Q. I want you to assume another situation, that Dr Gordon 22  
will give some evidence. 23

A. Yes. 24

Q. And he treated Mr Parenzee. And assume this for a 25  
moment, that once Mr Parenzee was diagnosed as being HIV 26

positive, his medical records indicate that over those 27  
times that he was consistently using his antiretroviral 28  
medication his CD4 count was high and his viral load was 29  
low or undetectable. But that on other occasions, other 30  
periods of time, when Mr Parenzee reported that he 31  
wasn't using his antiretrovirals consistently that his 32  
CD4 count plummeted and his viral load increased 33  
significantly. If you assume that scenario for a 34  
moment, doesn't that indicate that the antiretroviral 35  
medication was assisting Mr Parenzee in his illness. 36

A. First of all, HIV, there is no evidence, your Honour, 37  
that HIV destroys the T4 cells. When the HIV hypothesis 38

was put forward the hypothesis states HIV destroys the 1  
T4 cells. The decrease in T4 cells leads to AIDS, or 2  
'AID' stands for decreased T4 cells and 'S' stands for 3  
syndrome. The syndrome varies. Initially it was only 4  
about two main diseases, then - now is about 30 5  
diseases. In America you don't need to have a disease 6  
to be called HIV, is enough to have a decrease in T4 7  
cells. So HIV destroyed the T4 cells. Destruction of 8  
T4 cells leads to the syndrome, to disease, to death. 9

CONTINUED 10

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E. PAPADOPULOS-ELEOPULOS XXN

Decrease in T4 cells was considered to be the hallmark 1  
of HIV in AIDS. All the evidence to date have shown 2  
that this is not the case. In fact, even by 1984, 3  
Montagnier himself, and Gallo, they knew that the 4  
decrease in T4 cells may not be due to killing of the T4 5  
cells or destruction of the T4 cells, but may be due to 6  
a change of the T4 cells to some other lymphocyte, 7  
namely T8 cells. In fact, I would like to just quote 8  
what Montagnier said in 1985 and I'm quoting - 9

XXN 10

Q. What are you quoting from. 11

A. From Klatzmann and Montagnier, March 1984: 'This 12  
phenomenon -' that is decrease in T4 cells '- could not 13  
be related to the cytopathic effects of "HIV" -' HIV is 14  
out of quote '- but "is probably due to either 15  
modulation of the T4 molecules at the cell membrane or 16  
steric hindrance of antibody binding sites"'. So 17  
Montagnier in 1984 said that these may not be due - in 18  
fact, I think the date here should be 1985, January 19  
1985 - it is not due to a decrease in T4 cells. The T4 20  
cells are measured by usual antibody tests. Antibodies; 21  
they have linked an antibody to a molecule which is on 22  
the lymphocytes. That molecule is called a protein, is 23  
called CD4, and the cells are called CD4 cells or T4 24  
cells. So if that molecule is on the surface of the 25  
cell and you use the antibody-like protein, the antibody 26

will bind and you have - you think that you have a CD4 27  
cell. But if that molecule goes inside the cell, as 28  
Montagnier said, or for some other reason the antibody 29  
cannot bind to this CD4, then the number of the T4 cells 30  
are decreased, or appear to be decreased, but actually 31  
they're there. They're there, you just don't see them. 32  
That's all Montagnier has shown. Now, in 1986, Gallo 33  
himself - 34

HIS HONOUR 35

Q. I don't want to stop you. We have been through this 36  
evidence earlier when you gave your evidence. I would 37  
like to go back to the question that was asked just to 38



get an answer to the question. 1

HIS HONOUR: Do you remember the question, 2  
Ms McDonald? I think I can. 3

MS MCDONALD: No. 4

A. The question was the HIV decreases the T4 cells, kill 5  
the T4 cells, call this AIDS. 6

HIS HONOUR 7

Q. Your answer is you do not agree with the proposition. 8

A. No, there is no evidence for that. 9

XXN 10

Q. I think I remember. The question now related to - 11

HIS HONOUR 12

Q. Related to Mr Parenzee and Dr Gordon's evidence that 13  
when he was taking his antiretroviral drugs, his CD4 14  
count increased and his viral load decreased, and when 15  
he wasn't, his viral load increased and his CD4 count 16  
decreased. The question related to that and your answer 17  
is you don't associate that with necessarily taking 18  
antiretroviral drugs. 19

A. It can't be. It can't be, just because the HIV has no 20  
role in decreasing or increasing the CD4s. 21

Q. And the viral load. 22

A. And the viral load. It doesn't prove HIV infection. 23  
Everybody agrees. 24

XXN 25

Q. So in your evidence, this pattern - you have shown this 26

pattern is there - is just a coincidence. It just so 27  
happens that when he is taking antiretrovirals, his 28  
counts are good, and when he is not, they're bad. 29

A. We are not here - in science, you don't go with one 30  
case. I don't know. I have to have all the information 31  
and we are trying to get information and you can't get 32  
any information from Mr Parenzee. Certainly we don't 33  
have enough information. But in science you go with 34  
scientific studies. There are no scientific studies 35  
which show a relationship that HIV - there are no 36  
scientific studies which show, firstly, that HIV exists, 37  
and if we assume that it exists, that HIV destroys the 38

T4 cells and, as I said, Montagnier admits that, Gallo 1  
has shown that in 1986, Montagnier has shown it in 1991. 2  
HIV does not destroy the T4 cells. Viral load cannot be 3  
used to prove HIV infection. Whatever that means - 4  
there's an article, one of the latest articles in 5  
science, commentaries - whatever that means, whatever 6  
that is, it is not HIV. 7

Q. Can I turn to deal with the topic of virus isolation for 8  
a moment and I don't want spend long on this because you 9  
have given your evidence about this. Do you accept the 10  
existence of a polio virus. 11

A. Yes. It exists, it may not exist, I'm not interested, 12  
has nothing to do with HIV. As Professor Riesenber, 13  
one of the great experts in retrovirology, says: you 14  
cannot prove the existence of one virus or non-existence 15  
by proving the existence or non-existence of another 16  
virus. I mean only with HIV. 17

Q. Let me asking the question again. You're here holding 18  
yourself out as an expert. Do you accept that the polio 19  
virus exists. 20

A. That's what they say and I accept it. I have not ever 21  
analysed the polio virus. 22

Q. Do you accept that the hepatitis C virus exists. 23

A. As I said, again, I did not study the hepatitis C virus. 24  
I guess it may exist, and I accept, like everybody else, 25  
you know, it exists. 26

Q. You say the polio virus and the hepatitis C virus have 27  
never been isolated in the way that you've said the HIV 28  
virus must be isolated before it can be proven to exist. 29

A. I'm not saying. You gave a document here. You gave us 30  
the document and we are fully in agreement with it. It 31  
is your document. It is your document for retroviruses. 32

Q. Can you answer the question please and I will put it to 33  
you again: that the polio virus and hepatitis C virus 34  
have never been isolated in the way you have suggested 35  
the HIV virus needs to be isolated before it can be 36  
proven to exist. 37

A. I don't know and I'm not interested. 38

HIS HONOUR 1

Q. Assuming for a moment the polio virus has not been 2  
isolated in the way in which you suggest - 3

A. I don't know how it - 4

Q. No, I'm asking you to make an assumption, I'm not asking 5  
for your knowledge. Assume for a moment the polio virus 6  
had not been isolated in the manner in which you suggest 7  
is necessary for the HIV virus to be isolated before it 8  
is evidence that it exists. Assume that for the moment. 9  
If that is the case, would you say that there is no 10  
evidence then that the polio virus exists. 11

A. Your Honour, there is a big difference between other 12  
viruses and retroviruses and that is that unlike other 13  
viruses, to have something, to have an indication, a way 14  
of detecting them, if you detect them by some means, 15  
that indicates that they come from outside. 16

Q. The short answer to my question is, you wouldn't agree 17  
with that proposition as correct, because the polio 18  
virus may well be detected in some other way other 19  
than - 20

A. Exactly, and it may be good because it is not a 21  
retrovirus. There is a big difference between polio 22  
virus and retrovirus. There are different ways of 23  
proving their existence. 24

XXN 25

Q. Let me ask you the same sort of question from a 26

different perspective. Can you name any virus that has 27  
ever been isolated exactly according to the rules that 28  
you have put before this court. 29

A. There are many retroviruses, I'm interested in 30  
retroviruses, and there are many who have been. 31

Q. Tell us. 32

A. For example? The rous-sarcoma virus. They have been 33  
purified, there are plenty of electromicrographs that 34  
show that. The papilloma virus has been purified. 35  
There are many which have been purified. There are 36  
penalty of electromicrographs to show their 37  
purification. 38

Q. We have looked at some electromicrographs on the last 1  
occasion of HIV, haven't we. 2

A. Yes. 3

Q. So there are electromicrographs of the HIV virus. 4

A. No, no. 5

Q. That's different, is it. 6

A. We're confusing - no, please don't - 7

HIS HONOUR 8

Q. You just answer. What are you saying we have confused. 9

A. There are electromicrographs of some particles in the 10  
cell culture, none of which to date has been shown to 11  
have all the characteristics of the retroviruses in the 12  
culture. Now, we're not talking about in the culture, 13  
in the mixture there with cells, cell fragments and all 14  
the rest. We are talking about electromicrographs of 15  
purified viruses; that is, electromicrographs which, as 16  
you will see, Klatzmann, the principal author of 17  
Montagnier's 1983 paper, in 1973, said you must have 18  
particles which have the same morphology, not a 19  
difference in morphology. The whole mass should have 20  
nothing else but particles with the same morphology. 21

XXN 22

Q. I want to turn to some of the articles that you relied 23  
on for your presentation in relation to sexual 24  
transmission and we started this process on the last 25  
occasion and we got to the point of dealing with slide 26

12 in A8. 27

HIS HONOUR: It is on p.2, it is headed 'Gay Men'. 28

XXN 29

Q. For that slide, you relied on a particular article that 30  
reported a study that was conducted. 31

A. Sorry? 32

Q. In preparing that slide, that is No.12 headed 'Gay Men', 33  
bottom right-hand corner, you relied upon a report of a 34  
study that was conducted. 35

A. Yes. 36

Q. And you excised from that report what we see in inverted 37  
commas in slide 12. 38



A. Yes. 1

Q. And that is 'Data from this and previous studies have 2  
shown that receptive rectal intercourse ... is an 3  
important risk factor for HTLV-III' - and you put in 4  
brackets 'HIV infection' and then in brackets 'positive 5  
antibody tests' - 'We found no evidence that other forms 6  
of sexual activity contributed to the risk'. That is 7  
the passage that you have excised to put in that slide, 8  
isn't it. 9

A. Yes. 10

Q. What I suggest is in putting that before the court, you 11  
were relying on that to support your argument that HIV 12  
has never been proved to be sexually transmitted other 13  
than through receptive intercourse. 14

A. That's said there. 15

Q. That was the point of putting that passage to the court. 16

A. Yes, true. 17

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E. PAPADOPULOS-ELEOPULOS XXN

Q. Do you have that study with you. 1

A. No, I haven't got it with me. 2

Q. Do those who are assisting you have a copy of the study 3  
that forms the basis for slide 12. 4

A. I think that study was given to you. 5

Q. I'm going to ask you some questions about this study you 6  
relied on, and I'd like you to have a copy in front of 7  
you. 8

A. No, no, it doesn't matter; I know it. Just tell me what 9  
you want. 10

HIS HONOUR: Mr Borick, do you have a copy? 11

MR BORICK: I'm just checking for it now. But we can 12  
proceed. 13

MS MCDONALD: I don't want to proceed. I would like 14  
the article put to her. 15

HIS HONOUR: I think that's fair. 16

MS MCDONALD: Would your Honour like to take a five 17  
minute break? I'm about to talk about a number of 18  
studies and it might be easier for everyone if the 19  
witness can have those in front of her, and we can 20  
proceed with the exercise. 21

HIS HONOUR: I'll take a 10 minute break. Perhaps you 22  
can speak to Mr Borick and identify the various articles 23  
to which you're going to be referring. If Mr Borick 24  
doesn't have a copy for the witness, maybe arrangements 25  
can be made to copy them so they're available when you 26

come to them. 27

ADJOURNED 11.20 A.M. 28

RESUMING 11.40 A.M. 29

XXN 30

Q. Ms Papadopulos just before we go to this study there are 31  
a couple of general questions I want to ask you. The 32  
first is what are your rules or criteria for viral 33  
identification. 34

A. They are not my rules or criteria. 35

Q. What are the rules or criteria that you apply for 36  
viral - 37

A. I agree with the document you have given us. 38

Q. Tell us. 1

A. I am in a fully agreement, so the rules and criteria for 2  
identification of viruses is here and I agree with you. 3  
You gave this document to us and shall I read it again, 4  
what are the rules here? 5

Q. I don't want you to read anything; I want you, as the 6  
expert in this court, to tell us what criteria you apply 7  
for viral identification. 8

A. Here it is. (INDICATES) 9

Q. I want you to give your opinion; not read from an 10  
article. 11

A. No, I agree with what is there. The viruses are 12  
particle; first of all you have to have a particle which 13  
has the morphology of a virus. If the virus is a 14  
retrovirus, if you claim that the virus is a retrovirus, 15  
belongs to a certain family of viruses, then the 16  
particles you have should have morphological 17  
characteristics of retroviruses. If you claim to have a 18  
unique retrovirus, then the particles of that retrovirus 19  
should differ by some way or the other from other 20  
retroviruses; that is the first step. Second, now, as I 21  
said, you have to analyse the particles on position. If 22  
you claim that these are virus, then, as I said, the 23  
main components of a virus are proteins and, in the case 24  
of retroviruses, RNA. How you have to prove that these 25  
particles has unique proteins and unique RNA; how can 26

you prove that? As the document which was supplied to 27  
us by the prosecution says, you must purify - 28

MR BORICK: Sorry to interrupt; that's P4 I think 29  
your Honour. 30

A. We've been saying this, anyone who looks on our 31  
publications will find out we are in total agreement 32  
with the prosecution here. That's all we've been saying 33  
from the very beginning. You have to purify the virus. 34  
Now, viruses cannot grow outside the cells. Why you 35  
need purification? There is a good reason to why you 36  
need purification. Viruses grow inside the cells. Some 37  
of them, to obtain the particles, you have to destroy 38

the cells and the viral particles come out. Others, 1  
like the retroviruses, the particles abut from the cells 2  
and come in the culture fluid, but the culture fluid 3  
does not have only retrovirus particles; it has cell 4  
fragments, it has free RNA, it has free proteins, so to 5  
be able to discriminate what is viral and what is 6  
cellular, as it says here, you have to purify the virus. 7  
That is, you have to obtain the viral particles separate 8  
from all the cellular fragments, all other viruses; if 9  
it's a retrovirus you have to obtain a retrovirus, 10  
particles which have the morphology of retroviruses. 11  
We've been saying, and this is not again our invention, 12  
for long time now; in fact, in the 1940's were the first 13  
time when the method in bending in density gradients was 14  
developed, to purify viruses. And that's what the 15  
document which was supplied to us by the prosecution 16  
says. Viruses can be purified by bending in density 17  
gradients. Only then, only then, as this document says, 18  
only then, once you have a material which contains 19  
nothing else but virus particles, then you analyse the 20  
proteins and their RNA and show that they are unique 21  
proteins and unique RNA and that is how, then and only 22  
then, you can say that you have identified a retrovirus 23  
or a unique retrovirus which is said for HIV. Then and 24  
only then as he further on said, on p.11, I think it's 25  
p.11, then and only then you can do viral cloning. So 26

you cannot do antibody tests, you cannot do nucleic acid 27  
tests, you cannot do viral cloning unless, and that is 28  
as this document said, unless you purify the virus 29  
particles and obtain the proteins to use them in their 30  
antibody tests and the RNA to use it in nucleic acid 31  
tests. If you don't have these basics, you cut - 32  
everything we are talking here is superfluous. It makes 33  
no sense if you don't have proof for HIV purification. 34  
If you don't have proof of HIV purification our 35  
scientific problem is finished. There are only two 36  
solution to the problem we are discussing here, either 37  
the virus has been - the particles have been purified 38



and then we have no choice but to admit that there are 1  
viruses, the Rhesus virus which has unique proteins and 2  
unique RNA, that is HIV exist. On the other hand, if, 3  
today, there is no evidence for viral purification, for 4  
HIV purification, if there is no proof for HIV 5  
purification then any scientist, no matter who he or she 6  
is, has no choice, no choice but to accept that, at 7  
present, no evidence exists to the prove the existence 8  
of HIV. 9

XXN 10

Q. How do you explain that, in that textbook you're at 11  
pains to keep referring us to, P4, they have published 12  
in that book the existence of HIV according to their 13  
criteria. They say HIV is a virus that exists. 14

A. Yes, because they accept that there is - the authors 15  
accept that the HIV have been purified. 16

HIS HONOUR: Which article are we referring to? 17

MS MCDONALD: It's the Topley and Wilson publication, 18  
P4. 19

A. Excuse me, on what page do they say HIV exist? 20

Q. I'm asking you general questions Ms Papadopulos. 21

A. Sorry, can you put again the question. 22

HIS HONOUR: P4 is the Medical Virology, Third 23  
Edition. 24

MS MCDONALD: Can I just see that? 25

HIS HONOUR: I think that's P4. 26

MR BORICK: That is it, your Honour. 27

MS MCDONALD: What I might do, just to keep this 28  
moving, I'll come back to this topic. 29

HIS HONOUR: I think you might have been referring to 30  
a different article. 31

MS MCDONALD: I was, so we were at cross-purposes and I 32  
might abandon that last question and I'll come back to 33  
that topic briefly when I have the publication. 34

XXN 35

Q. Let's move to your presentation of sexual transmission. 36  
Firstly, isn't it the case that all of the data that 37  
you've relied on from the various studies in this 38

presentation has been established using the Western blot 1  
and ELISA tests, so in other words the people who have 2  
conducted these studies, in talking about how HIV may or 3  
may not have been transmitted, they all rely on the 4  
Western blot and the ELISA tests. Even though you say 5  
we can't rely on those tests, you're prepared in your 6  
evidence to rely on the results of these studies based 7  
on these tests. 8

A. No; I need to say I never said that this study show HIV 9  
transmission. I said that this study show acquisition 10  
of a positive test. Acquisition of a positive test 11  
which the HIV expert - for the HIV expert is synonymous 12  
with acquisition of HIV, but not for us. I made that 13  
clear I think repeatedly. 14

Q. You've told us that you relied on the data from these 15  
studies for your presentation. 16

A. Yes; I am quoting them, yes. 17

Q. A presentation that advanced a particular argument, that 18  
is that HIV is not generally sexually transmitted. 19

A. Yes. 20

Q. But the very data that you relied on supposedly in 21  
support of that argument relied upon the accuracy of the 22  
Western blot and ELISA tests. 23

A. Yes; we're saying not accuracy - I'm sorry accuracy of 24  
what, accuracy for HIV? There is no evidence that one 25  
single antibody test proves HIV infection, but we are 26

saying this is a positive test, whatever that means: not 27  
an HIV - there is a big difference here and I think you 28  
are confusing the two. This test we are saying here, 29  
this evidence prove the acquisition of a positive 30  
antibody test. I repeated it and I made it clear and I 31  
think it's still not very clear to everybody, it is a 32  
positive test, whatever that means. That's what we're 33  
saying: we're not saying it's accurate. To say that 34  
it's accurate you have to say that this means 'X' or 'Y' 35  
or 'Z': we are saying this is a positive test, whatever 36  
that means. 37

Q. Let's try and simplify this. When you're saying to the 38

court, for example, is 'Here is this study that was 1  
conducted with some prostitutes and they were having 2  
vaginal sex and none of them became HIV positive and 3  
therefore that study supports my proposition'. Isn't it 4  
the fact that those very results that you rely on were 5  
established using the Western blot and the ELISA tests. 6  
You're in fact relying on the results of those tests. 7

A. I think you are still very confused I'm sorry to say. 8  
The HIV expert - by a positive test, the HIV expert - by 9  
positive antibody test the HIV expert mean, for them, a 10  
positive test equals HIV infection. For us a positive 11  
test doesn't mean HIV infection, and when I presented 12  
the evidence I stress it repeatedly: a positive test, 13  
that is what the HIV expert call HIV. The risk factor 14  
for the acquisition of this positive test is on a 15  
passive anal intercourse in gay men and anal intercourse 16  
in woman, in heterosexual sex. We repeatedly said that 17  
so I don't know why you so confusing. Why - we can use 18  
those tests - I'm not saying - and that's exactly what 19  
we're saying. These tests, these are totally different 20  
interpretation and I don't know how - it's very clear, 21  
why you can't use it. The interpretation is different 22  
and, your Honour, I don't know, I don't know how to 23  
answer this. 24

HIS HONOUR 25

Q. You've answered the question as best you can. 26

XXN 27

Q. Slide 12, we've already gone to that, that's in A8, p.2. 28

A. Yes. 29

Q. You have it in front of you. 30

A. Yes, I do. 31

Q. And I've already taken you to the passage and suggested 32  
to you that you relied on that to support your 33  
particular position about sexual transmission of HIV. 34

A. May I correct you, not HIV; a positive antibody test. 35

MS MCDONALD: I hand up a copy of that your Honour. 36  
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EXHIBIT #P27 A PAPER FROM THE JOURNAL OF THE AMERICAN 1  
MEDICAL ASSOCIATION, ENTITLED 'HUMAN T-CELL LYMPHOTROPIC 2  
VIRUS TYPE III INFECTION IN A COHORT OF HOMOSEXUAL MEN IN 3  
NEW YORK' DATED 25/04/1986 TENDERED BY MS MCDONALD. 4  
ADMITTED. 5  
6  
XXN 7  
Q. This study was done in 1986 in the very early days of 8  
what's been described as the AIDS epidemic. 9  
A. Yes, 1986. 10  
Q. 20 years ago. 11  
A. Yes. 12  
Q. The epidemiological pattern of HIV was very different 13  
then than it is now, wasn't it, that initially in its 14  
early phase it was more limited to certain groups, like 15  
homosexual men, whereas these days there is a much 16  
broader group of people who have been diagnosed as HIV 17  
positive. 18  
A. Yes, but this study has nothing to do with that. 19  
Q. This was a study that was conducted - 20  
A. You mean because the study was conducted in 1986 it's no 21  
good any more? 22  
Q. Ms Papadopulos, I ask the questions and you answer them. 23  
That's what you're here for. This study was conducted 24  
in New York City; is that right. 25  
A. Yes, that's what it says on the title. 26

Q. This is an article you've relied on isn't it. 27

A. Yes, it is, it is, I'm repeating, one of the articles - 28  
one, one of the first ones published. 29

Q. This was an article that was considering or looking at 30  
what the major risk factors were in terms of sexual 31  
transmission of HIV. 32

A. Acquisition of positive antibody tests. 33

Q. The authors of this report weren't talking about 34  
positive antibody tests: they were looking at the sexual 35  
transmission of HIV. 36

A. Based on a positive antibody test. You said it before, 37  
it was based on a positive antibody test. How can you 38



use that, when you say the positive antibody test, when 1  
you're talking about HIV infection? 2

Q. This was a study conducted of homosexual men. 3

A. Yes. 4

Q. Well, you might think the prevalence of anal intercourse 5  
was a bit higher than the average population. 6

A. Sorry? 7

Q. You might think, with a demographic like that, the 8  
prevalence of anal intercourse might be a bit higher 9  
than the general population. 10

A. Definitely. 11

Q. If we go over to the second page, 2168, under 'Subjects 12  
and Methods', that's the heading to the top left hand 13  
side of the page. 14

A. Yes. 15

Q. It talks about the group that we looked at. 16

A. Yes. 17

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E. PAPADOPULOS-ELEOPULOS XXN

Q. And if we continue down, there is a heading 'Laboratory Tests'. 1  
2

A. Yes. 3

Q. Do you see there: 'Sera were tested under code for anti-HTLV3 prevalence by an enzyme-linked immuno-sorbent assay, ELISA, and by western blot analysis'; correct. 4  
5  
6

A. Yes. 7

Q. The authors were prepared to rely on those tests. 8

A. Sorry? 9

Q. The authors, here, were prepared to rely on those tests. They rely on the western blot of ELISA. 10  
11

A. Yes, we agree on that. 12

Q. What I want to take you to is the next page, 2169, and it is about two-thirds of the way down, the first column, the paragraph commencing: 'Anti-HTLV prevalence'; do you see that. 13  
14  
15  
16

A. Yes. 17

Q. It says there that: 'Anti-HTLV, through prevalence, correlated with numbers of different sex partners, the frequency of various types of sexual practices, history of common sexually transmitted diseases, use of recreational drugs, including intravenous drugs and known sexual contact with a person with AIDS. Because many of these variables correlated with each other step-wise, multiple logistics regression analysis was used to identify those that had an independent 18  
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predictive relationship with anti-body prevalence. In 27  
this analysis, only receptive rectal intercourse, 28  
douching, rectal bleeding, sexual contacts with a person 29  
known to have AIDS and use of intravenous drugs were 30  
significant predictors'. Do you see that's what it says 31  
there. 32

A. Sorry? 33

Q. Do you agree with what I have actually - 34

A. Yes of course I agree. 35

Q. - what I put in the passage. 36

A. Yes, of course I agree. 37

Q. Isn't it the case that in this study there are a number 38

of predictors of whether someone would test positive for 1  
an HIV anti-body test, including whether they were with 2  
a person, having sexual relations with a person known to 3  
have AIDS. 4

A. Yes, we agree. 5

Q. You see the authors in this article, at no stage, say 6  
the only way that you can have an HIV positive test is 7  
as a result of receptive anal intercourse. 8

A. I'm sorry - 'the only sexual act'. These are not sexual 9  
acts. We have to discriminate between all of these 10  
other factors in a sexual act and the only sexual act, 11  
according to Gallo, is receptive intercourse. These are 12  
not sexual acts. Where in there is a sexual 13  
transmission? 14

Q. The author in this article is not suggesting that the 15  
only sexual act that can cause someone to become HIV 16  
positive is receptive intercourse. I'm putting that as 17  
a proposition; do you agree or disagree. 18

A. No, I disagree. 19

Q. Let's go to the quote that you included - 20

A. Yes. 21

Q. And we might start at the bottom of p.2170. 22

A. Yes. 23

Q. Under the heading 'Comment'. 24

A. Yes. 25

Q. I won't take you through all of that. It talks about 26

chimpanzees and so forth. I want to start with the last 27  
column. 28  
A. Yes. 29  
Q. Bottom corner with the word 'Data'. Do you see that, 30  
about five/six lines up from the bottom. 31  
A. In the middle corner. It says 'However - '. 32  
HIS HONOUR 33  
Q. No, it is the third column and it is about six lines 34  
from the bottom: 'Data from this'. 35  
A. Yes. 36  
XXN 37  
Q. This is the passage that you quoted. 'Data from this 38

and previous studies have shown that receptive rectal 1  
intercourse for example is an important risk factor for 2  
HTLV infection'. Do you have your power point 3  
presentation there. 4

A. Sorry? 5

Q. Do you have your power point presentation there. 6

HIS HONOUR 7

Q. Have a look at A8, p.2, which has the heading 'Gay Men'. 8

A. A8, yes. 9

Q. P.2. 10

A. Yes. 11

Q. Bottom right-hand corner 'Gay Men'. 12

A. Yes. 13

XXN 14

Q. You have got some dot dots in the part that you excised. 15

A. Yes. 16

Q. So you have the words: 'Data from this and previous 17  
studies have shown that receptive rectal intercourse ... 18  
is an important risk factor'. 19

A. Yes, we said it is an important risk factor. 20

Q. You left out two words from that quote and you put dot, 21  
dot, dot. 22

A. Yes, but it is an important risk factor. 23

Q. The words 'for example' are not the only risk factor. 24  
The words are 'for example' - 25

A. Yes, it is an important risk factor so that's what I 26

say - analytical - it is an important risk factor. 27

HIS HONOUR 28

Q. Did you prepare these slides. Did you prepare the 29  
slides. 30

A. Most of them, not all of them. 31

Q. Did you prepare the slide No.12 'Gay Men'. 32

A. I can't remember, no. 33

Q. I would just like to know why the words 'for example' 34  
were left out. 35

A. Just to make the quote smaller that's all, because it 36  
does not aid or misinterpret because analytical is a 37  
risk factor. That's all they say and all introduced 38



that. 1

Q. It certainly says that, but it says that it is an 2  
example of a risk factor, it does not say 'it is the 3  
only one'. 4

A. No, it did not say is the only. We did not add 'it is 5  
the only'. We say it was a risk factor, we did not 6  
misinterpret. 7

XXN 8

Q. In that quote you have left out the two words 'for 9  
example' to save space. 10

A. Yes. We had so many slides and - some of them are so 11  
lazy. The important thing is not to misinterpret and 12  
gave the risk factor, the analytical is a risk factor. 13

Q. Let's go on and let his Honour form his own view as to 14  
whether you are misinterpreting. You will see that 15  
there are a second series of dot dots after the word 16  
'infection' and you have put the words 'positive 17  
anti-body test' in there. Are they your words. 18

A. That's our interpretation. 19

Q. And there are even dot dots where those dot dots appear 20  
in the article. We see the words 'Yet, at the time of 21  
entering this project, nearly half of the participants 22  
have practiced this technique'. You chose not to 23  
include those words. 24

A. Why should I include them? They have no relationship of 25  
a sexual act which is a risk factor for the positive 26

test. They don't add or subtract. The main thing that 27  
we are looking for. 28

Q. Then you, in your power point, include the words 'We 29  
found no evidence that other forms of sexual activity 30  
contributed to the risk'. And you stop there. 31

A. Yes. 32

Q. What you don't tell the court is that the authors of 33  
this report then go on to say - expressly disavow what 34  
you have been putting to this court saying: 'However, 35  
these data should not be taken to indicate that other 36  
forms of sex are safe. It is possible that the virus 37  
may be transmitted by sexual activities other than 38

receptive rectal intercourse, although probably with 1  
lower efficiency and, therefore, not detectable in our 2  
present study. Retrospectively, data on sexual activity 3  
also may not accurately reflect the specific activities 4  
practised at the time of exposure'. Now that's what it 5  
says there, doesn't it. 6

A. Yes and that is commentary, it is not data. We are 7  
talking about data. Data. Not commentary. They are 8  
comments and they speculate, but we are not interested 9  
in speculation and in commentaries, we are only 10  
interested in the data. 11

HIS HONOUR 12

Q. Would you agree with this proposition: that certain 13  
conclusions can be drawn from certain data, but it does 14  
not follow, necessarily, that because you can draw a 15  
particular conclusion from some data that that is the 16  
only conclusion that you can draw from it. 17

A. It does not mean that in a few years time or the next 18  
day or the next - I totally agree with your Honour - the 19  
next day or the next year or 20 years after. You may 20  
have some other evidence who totally ameliorate - yes, 21  
you can have it, I totally agree but it did not have 22  
such data and they speculate. We agree with the 23  
speculation too. 24

XXN 25

Q. Don't you think that an expert in this court, here, to 26

assist the court, that you should have put all of the 27  
information forward about that article and that his 28  
Honour make a determination based on all of the 29  
information including the fact that the very authors 30  
that you rely upon say that their results cannot be 31  
used. 32

OBJECTION: MR BORICK OBJECTS 33

MR BORICK: I object for this reason: that the quote 34  
in the comment here says that there are bits missing. 35  
The words 'for example'. You are given the exact 36  
identification of the article so that myself or the 37  
prosecution can look at it all for ourselves and 38

although the prosecutor might have a difference of 1  
opinion with the witness about the way in which it 2  
should have been written down, the fact is that the 3  
witness was not hiding anything as the question suggests 4  
and I object to it. 5

HIS HONOUR: Ms McDonald, I'm not sure that the 6  
questions will help me a great deal in the sense that it 7  
is more comment perhaps than it is - if you are going to 8  
put the proposition to the witness that she has misled 9  
the court by not including it, certainly you are 10  
entitled to put that because that's an attack on 11  
credibility as to a witness, and if you want to put that 12  
as a positive proposition by all means I will permit you 13  
to do that and see what her answer may be. Mr Borick, 14  
it may be a matter for comment later on. I think the 15  
question is not permissible in the form it is being 16  
asked, but if it were put to the witness: 'Isn't it a 17  
fact that you misled the court by not putting the whole 18  
of the passage to which I have referred', that's a 19  
matter that can be put to the witness and we will see 20  
what comes from that. I understand what your position 21  
is. It may well be that the witness will say exactly 22  
what you said from the bar table. 23

MR BORICK: The question better be phrased fairly 24  
specifically if counsel is going to put that a witness 25  
has misled; to put all the facts, explain to the witness 26

why, including what I have said in the course of the 27  
objection. 28

HIS HONOUR: Let's see what the question is. I'm not 29  
permitting Ms McDonald to put that question. If she 30  
asks another question we will confront that when it is 31  
asked. 32

XXN 33

Q. I will be quite blunt. I suggest to you that you have 34  
deliberately attempted to mislead this court by leaving 35  
out words in that quote, namely, 'For example' and by 36  
stopping it at the point that you did and not presenting 37  
that quote in its proper context in that article. 38

A. We did not mis - 1

MR BORICK: Well, now it's changed to the crime of 2  
attempt, attempted to mislead. Is it being put 3  
specifically that the witness did mislead? I'm not sure 4  
that the answer is going to help. My proposition - 5

HIS HONOUR: Although, if there is going to be an 6  
attack on a witness and, say, on the basis that the 7  
witness has not been frank with the court or has misled 8  
the court by misusing quotations etc., it is only fair 9  
that the proposition should be put to the witness 10  
otherwise you would have a genuine complaint if later it 11  
was said 'Look, this is an attack on the witness, that 12  
was never ever put to the witness, the witness was never 13  
given an opportunity to explain the position'. 14

MR BORICK: Well, let my friend ask the question and 15  
Ms Papadopulos can look after herself. 16

HIS HONOUR: I think the question has been asked. 17

MR BORICK: Her experts are coming along. She'd 18  
better remember that and they'd better remember it too. 19

HIS HONOUR: I'm sure that everybody is well aware of 20  
the position, but I will allow the question. 21

HIS HONOUR 22

Q. Do you remember it. 23

A. Yes. We do not mislead. We put it there. In the quote 24  
we left two words out. It did not change the meaning or 25  
the finding of the study and the big lengthy passage 26

that you read after this is not evidence. That is 27  
speculation. The words, themselves, are speculation so 28  
why should we put speculation? We are presenting to the 29  
court data, not speculation. If you start putting all 30  
the speculation it would never end. 31

XXN 32

Q. Can we go to slide 13 over the page. Again, that slide 33  
relies on a particular study described as the 'Multi 34  
Centre AIDS, 1985'. Is that paper that you relied on, a 35  
paper headed 'The Lancet, Saturday, 14 February, 1987'. 36

A. 1987 it was. 37

38



EXHIBIT #P28 LANCET, SATURDAY, 14/02/1987 TITLED 'RISK 1  
FACTORS FOR SERO CONVERSION TO HUMAN IMMUNODEFICIENCY VIRUS 2  
AMONG MALE HOMOSEXUALS TENDERED BY MS MCDONALD. ADMITTED. 3  
4

Q. I suggest that this article is probably the watermark of 5  
your argument that receptive sexual - anal sexual 6  
intercourse is the only risky form of sexual intercourse 7  
in terms of positive diagnosis of HIV positive, but even 8  
this article does not support your proposition that that 9  
is the only way in which it can be sexually transmitted. 10

A. Is the quote wrong there? Is the power slide wrong? 11

Q. It is your slide. 12

A. No, it is there, we took it from there so, you know, you 13  
can say that it is not there. If that is there, then 14  
why is it misleading? 15

Q. We might be at cross-purposes. Slide 13. We have been 16  
provided with this article headed 'Slide 13, the Lancet, 17  
Saturday, 14 February 1987'. 18

A. Yes. 19

Q. That is the article that you have relied on for the 20  
quote that we see in slide 13. 21

A. Yes. 22

Q. Is that the case. 23

A. Yes. 24

Q. What I'm suggesting to you is: although you have put a 25  
quote in that passage, that the actual study, itself, 26

does not support your proposition that the only way in 27  
which someone can get an HIV positive test result is 28  
from receptive anal intercourse in terms of sexual 29  
practices. 30

A. Is it not the conclusion of the sources of what is in 31  
our slide? 32

Q. Let's go through the article. 33

A. Are we misquoting them? 34

Q. Let's go through the article. We might perhaps, for 35  
expediency, go to the end and come to the discussions 36  
and conclusions. P.348, the last page in the article. 37  
I want to take you to the paragraph that begins with the 38

words 'From a public health'. Does the article there 1  
say: 'From a public health point of view, we can affirm 2  
to homosexual men that receptive anal intercourse is the 3  
principal route by which they may become infected with 4  
HIV. We must also communicate that a small but real 5  
risk from other exposures may have been undetectable, 6  
even in this large study. Receptive fisting, 7  
enema/douche before sex, and perianal bleeding, as 8  
markers rectal trauma have all been strongly associated 9  
with prevalent HIV infection in the cross-sectional 10  
Multicentre AIDS Cohort Study of nearly 5,000 men'. 11  
There is a figure in brackets '(38% HIV seropositive). 12  
That none of these trauma indicators were significantly 13  
associated with sero conversion in the present study, 14  
may indicate only that the smaller sample size' - and 15  
there is a figure '(95 sero converters) precluded their 16  
detection. Enema or douche use before sex did, however, 17  
show a trend towards association with sero conversion 18  
(odds ratio 1.5, less than .10)'. 19

HIS HONOUR: 'P less than'. 20

MS MCDONALD: Thank you. 21

XXN 22

Q. 'Although the prospective nature of this analysis makes 23  
it a more compelling assessment of risk factors, the 24  
potential importance of the traumatic practices 25  
promoting HIV infection should not be overlooked'. 26

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E. PAPADOPULOS-ELEOPULOS XXN

It then goes on to say 'the relative safety of the sexual practices not detected as risk factors for seroconversion in this report deserves comment. Oral intercourse with ejaculate introduced in the oral cavity, anilingus, fisting, enema/douche use, and dildo use are all potentially unsafe. HIV infection apart, many of these practices have already been associated with other sexually transmitted diseases', and the article goes on. Firstly, do you agree I correctly read out what appears in that passage.

A. Yes.

Q. The authors there aren't saying that receptive anal intercourse is the only way someone can test positive for HIV in terms of sexual practices.

A. We say all these people have found - these authors, they say that did not find, that's all they found. We are saying what this study has proven, not other studies and not speculation, only what they say. You read their summary. Let me read what they say in the summary.

Q. Where are you reading.

A. May I please read this?

Q. You need to tell the court -

HIS HONOUR

Q. The summary at the front of the article, refer me to the article.

A. The last sentence.

Q. You needn't read it because I can read it myself. I 27  
have the article so I will read the last sentence. 28  
XXN 29  
Q. So we look at that passage and we cross-reference that 30  
to what's in the slide, slide 13, that you have 31  
included, '... the hazards of this practice need to be 32  
emphasised in community education projects'. That comes 33  
from that passage that you have just brought to our 34  
attention. 35  
A. Yes. 36  
Q. What you have not included there though is the beginning 37  
of that sentence 'Receptive anal intercourse accounted 38

for nearly all new HIV infections amongst homosexual men 1  
enrolled in the study'. Why did you leave the first 2  
half of that sentence out. 3

A. Because if you read the study, they found three people 4  
who did not know how they had acquired it, but they said 5  
these people may have lied, they have been all 6  
practising anal intercourse and may have lied or they 7  
may have had some other risk factors. If you read the 8  
study, if you read the study carefully, that's what they 9  
say. They had only three men who they could not account 10  
by passive anal intercourse but they say they may have 11  
lied or they may have had some other reasons for 12  
seroconversion. Please read the whole study. 13

Q. If we look at what you have presented to us in the 14  
PowerPoint, that first passage that we see beginning 15  
with the words 'Receptive anal intercourse' in fact 16  
comes from p.347 under the heading 'Discussion'. 17

A. Yes. 18

Q. So what you have done there, you have selected that 19  
sentence from the body of the document in the discussion 20  
area and you've joined with it a quote from the summary 21  
section of the report and interrelated the two of them 22  
by presenting them on the one slide. 23

A. Yes. All this is the data. If you read the study, 24  
exactly that's what it says. Please read the whole 25  
study. 26

Q. If you put in that whole sentence, and I am referring 27  
now to the second passage, where we have got the dot dot 28  
dots, it would have been clear on a reading of the 29  
sentence that the authors are saying there that 30  
receptive anal intercourse is not the only way that new 31  
HIV infections come about. 32

A. Not in their study, not in their study. 33

HIS HONOUR 34

Q. What they were saying, and I am summarising it, on this 35  
particular topic is that there were three members of the 36  
study who claimed that they had not had anal sexual 37  
intercourse, yet they were still positive. 38



A. Yes, and also said they may have lied. 1

Q. I understand. 2

A. Yes, exactly. 3

XXN 4

Q. Go to slide 14. Again you have relied on a report of a 5  
particular study and you've included four separate 6  
quotes from that study or from that report rather. Do 7  
you have the slide. 8

HIS HONOUR 9

Q. It's at p.3 and it's the second slide at the top on the 10  
right-hand side, Gay Men. 11

A. Yes. 12

Q. It's got four paragraphs. 13

A. Yes. 14

Q. Four numbered paragraphs. 15

A. Yes. 16

XXN 17

Q. And those quotes numbered 1 to 4, do we take it from 18  
that slide you have extracted from that article that you 19  
have referred to at the bottom of the page. 20

A. Yes. 21

Q. Is that an article entitled 'Male Homosexual 22  
Transmission of HIV 1'. 23

A. Yes. 24

Q. We see some writing at the top there 'Homos C', is that 25  
your writing. 26

A. Yes, it's my writing because I put this for my database 27  
to know where I can put it. 28

EXHIBIT #P29 ARTICLE ENTITLED MALE HOMOSEXUAL TRANSMISSION 29  
OF HIV 1 REPORTED IN CURRENT SCIENCE LTD HEADED AIDS 1994 30  
TENDERED BY MS MCDONALD. ADMITTED. 31  
32

Q. On the first page of that report you go on to look under 33  
the heading 'Overview of Factors Potentially Influencing 34  
Male Homosexual Transmission'; do you see that heading. 35

A. Yes. 36

Q. The point I should make here is this study and the last 37  
two that you referred to have all been studies focused 38

on homosexual men. 1

A. Yes, that's why the whole Gay Men, Gay Men, Gay Men. 2

Q. And under that heading 'Overview of Factors', it says 3  
'HIV 1 has been isolated from blood, semen, 4  
pre-ejaculatory fluid and a variety of other 5  
secretions'; see that. 6

A. Yes. I don't know where it is but yes, I may claim 7  
that. 8

Q. The authors that you have relied on seem convinced that 9  
it's been isolated. 10

A. They don't give this evidence. They say what others are 11  
claiming, not here. There is no evidence here, there is 12  
no data in this study. They accept what others are 13  
claiming. They are epidemiologists. 14

Q. The focus of this study is looking at risk factors in 15  
terms of sexual behaviour amongst homosexual men, 16  
correct. 17

A. Yes. 18

Q. Let's go to the conclusion which is at p.1058. Do you 19  
have that. 20

A. Yes. 21

Q. Under Conclusions the authors say 'Given the 22  
methodologic considerations and evaluation of the 23  
studies in the light of epidemiologic criteria, it can 24  
be said that the cited reports yield convincing evidence 25  
that (1) unprotected anogenital receptive intercourse 26

poses the highest risk for the sexual acquisition of HIV 27  
infection'. I will pause there. You agree I have 28  
accurately read out what's in the passage. 29

A. Yes. 30

Q. In fact, that passage that I have just read out, the 31  
No.1 is the first quote that you have included in your 32  
PowerPoint. 33

A. Yes. 34

Q. '(2) anogenital insertive intercourse poses the highest 35  
risk for the sexual transmission of HIV infection'. 36

A. Agree that's what we are saying. 37

Q. '(3) there is mounting epidemiologic evidence for a 38

small risk attached to orogenital receptive sex, 1  
biologic plausibility, credible case reports and some 2  
studies showing a modest risk, detectable only with 3  
powerful designs'. That's what the authors say there. 4

A. Yes. 5

Q. '(4) sexual practices involving the rectum and the 6  
presence of (ulcerative) STD facilitate the acquisition 7  
of HIV 1. (5) no or no consistent risk for the 8  
acquisition of HIV 1 infection has been reported 9  
regarding other sexual practices such as anogenital 10  
insertive intercourse and oroanal sex. It is likely 11  
that infectiousness of infected individuals is high 12  
during the early and late stages of infection and 13  
increases from low to moderate during the asymptomatic 14  
period'. Then there's reference not particularly 15  
relevant here to evidence about the effect of the use of 16  
condoms. Firstly, you agree I have read out what's in 17  
that passage. 18

A. Yes, very much so. That confirms what they are saying 19  
more than anything else. 20

Q. Again these authors are not saying that receptive anal 21  
intercourse is the only way you can be positive to a 22  
test for HIV. 23

A. Tell me which other sexual act these authors say that is 24  
a risk factor apart from passive anal intercourse, can 25  
you tell me please one, just give me please one. Give 26

me one other sexual act which these authors found to be 27  
a risk factor for the acquisition of a positive antibody 28  
test. 29

Q. Ms Papadopulos - 30

A. That's what I am asking. 31

Q. You are not here to ask questions, you are here to 32  
answer them. 33

A. You are accusing me. 34

Q. I direct your attention to point 3 under Conclusions 35  
beginning with the words 'There is mounting 36  
epidemiological evidence for a small risk attached to 37  
orogenital receptive sex'. 38

A. Receptive again. 1

Q. What does 'orogenital' mean. 2

A. Means receptive, is deposition of semen into the mouth. 3  
That's what it is, semen. 4

Q. So do you accept that is another way in which someone 5  
can test positive to HIV as a result of sexual contact 6  
through fellatio, that is taking the penis into the 7  
mouth, ejaculation into the mouth. 8

A. There has to be ejaculation, that's what they say. 9  
Ejaculation into the mouth, that's what it means. 10

HIS HONOUR 11

Q. That's not receptive anal intercourse. 12

A. Is all intercourse. They say there is 'mounting', they 13  
don't say that there is evidence. If you read all the 14  
evidence there, that is the only thing they conclude and 15  
they start with one and they call it - the second tells 16  
you, the second conclusion, they say anogenital is 17  
posing higher risk for the sexual transmission of HIV 18  
infection. 19

Q. The question that's being put to you is this, as I 20  
understand it, and Ms McDonald will correct me if I am 21  
wrong, it doesn't say that it's the only form of sexual 22  
transmission which can result in a positive test. 23

A. If you read the other risk factors there, there are no 24  
other risk factors, it's the only one. No matter how 25  
you take it, it's the only risk factor. If you are a 26

scientist, you cannot conclude anything else. 27

XXN 28

Q. At the risk of stating the obvious, when you are looking 29  
at two men engaging in sexual practices, there's a limit 30  
to the forms that can take, isn't there. 31

A. Definitely, definitely. 32

Q. And this study says no more than that, the highest risk 33  
factor is receptive anal intercourse, but does not 34  
exclude there being risks attached to other forms of 35  
sexual contact. 36

A. They don't give any other. They go and give everything 37  
else and they don't give any other risk factor so the 38



only conclusion as a scientist you can come to, you have 1  
no choice but to say that receptive anal intercourse is 2  
the only risk factor. May be passive intercourse which 3  
again supports our view that this test proved only 4  
exposure to antigens which have nothing to do with HIV. 5

Q. Let's go to what the authors finally suggest should 6  
arise as a result of that study. I am going to the 7  
third to last page, it's p.1059, the passage beginning 8  
with 'The public health implications'. Do you have that 9  
passage. 10

A. Yes. 11

Q. There the authors say 'The public health implications of 12  
these findings can be formulated as follows: (1), health 13  
education messages for homosexually active men regarding 14  
the restriction of anogenital intercourse and the use of 15  
condoms during its practice should remain in effect. 16  
(2) homosexual men should be informed about the risk of 17  
orogenital sex, although the risk is probably small, 18  
recommendations regarding its avoidance or the use of 19  
condoms should be considered'. So arising from that 20  
report in terms of public health implications, the 21  
authors conclude that whilst receptive anal intercourse 22  
might be the most risky that people should be warned 23  
about engaging in unsafe practices of orogenital sex. 24  
That's the bottom line in this report, isn't it. 25

A. We totally agree. There is no disagreement here. We 26

totally agree with the public health policy. In fact, 27  
now that we are talking about public health policy, our 28  
public health policies, if anything, are more 29  
conservative than those of the HIV experts. The HIV 30  
experts say safe sex. We totally agree, safe sex. The 31  
HIV experts say clean needles, we agree with clean 32  
needles. In fact, we go one step further and we say no 33  
needles, that is no drugs, because the drugs are the 34  
ones which are to be blamed, although a dirty needle 35  
because it contains antigens, it may have many other 36  
risk factors, should be avoided. We totally agree. We 37  
agree that the antibody test should be done, but the 38

antibody test - we disagree as to the interpretation of 1  
the antibody test. We agree that the blood which is 2  
used for transfusion should be tested using the antibody 3  
test, but we disagree again with the interpretation. 4  
Our public health policies are at least as good as that 5  
of the HIV experts. 6

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E. PAPADOPULOS-ELEOPULOS XXN

So total agreement there, total agreement. Nothing 1  
against the public health policy. They are very good. 2

Q. Let's go to your studies that relate to women and people 3  
who are in heterosexual relationships. I want to take 4  
you to slide 21, which is on the fourth page, left-hand 5  
column, in the middle, headed 'Prostitutes'. Do you 6  
have that slide. 7

A. Yes. Slide 19? 8

HIS HONOUR 9

Q. No, 21, 'Prostitutes'. 10

A. Yes. 11

XXN 12

Q. Now, there you have relied on another article and study, 13  
Day et al, St Mary's Hospital Medical School, London, 14  
1993. 15

A. Yes. 16

Q. And let me just remind you of what you told the court 17  
about this particular slide. P.158, at line 2, you 18  
were asked this question from Mr Borick: 'I think you 19  
are now moving to a survey of the various study groups 20  
which have taken place since about 1984 or thereabouts'. 21

A. Sorry? 22

Q. Would you like me to repeat that. 23

A. We're talking again slide 21? 24

HIS HONOUR 25

Q. No, Ms McDonald is now reading you some evidence. 26

A. From the paper? 27

Q. Just listen to the question and it will become obvious. 28

XXN 29

Q. I'm asking you about some evidence you have already 30  
given in this courtroom and it was the evidence you were 31  
giving when we got to this slide 21 of your PowerPoint 32  
presentation and you were asked this question: 'I think 33  
you are now moving to a survey of the various study 34  
groups which have taken place since about 1984 or 35  
thereabouts' and then you gave this answer: 'Yes. In 36  
our study, we were addressing different studies, or 37  
studies in different groups, so we start with the 38

prostitutes, because if any group, heterosexual group, 1  
were going to be found as HIV infected, then it should 2  
be prostitutes, because prostitutes are the most 3  
promiscuous heterosexuals. There are several reasons 4  
why, apart from the fact that they are very promiscuous, 5  
why the prostitutes should have been infected, because 6  
the safe sex campaign started in 1986/1987, and by that 7  
time there were many bisexual and homosexual men who are 8  
HIV infected and, as you see from what I am quoting now, 9  
there are many of these men who are having sex with 10  
prostitutes. For example, in this study, in this study 11  
of men who had sex with female prostitutes, more than 12  
one-third reported having had sex with other men. So 13  
one-third of the men who were having sex with the 14  
prostitutes, they were also having sex with other men 15  
and, by then, there were many homosexuals who were 16  
infected, so one would have expected this is a very good 17  
reason for prostitutes also to be found to be infected'. 18  
Do you agree that was your evidence when we were talking 19  
about slide 21. 20

A. Yes. 21

Q. And in your slide you've excised a part of the report 22  
that you have relied on that says 'In this study of men 23  
who had sex with female prostitutes, more than one-third 24  
reported having had sex with other men'. 25

A. According to that. 26

Q. That's what you have included in your PowerPoint.	27
A. Yes.	28
Q. You didn't mention anything about condoms though in terms of your study, did you.	29 30
A. No.	31
Q. Do you think it might have been of assistance for his Honour to know, when you're talking about this study and how many people tested positive to HIV, that 82% of the study group always used a condom.	32 33 34 35
A. Sorry?	36
Q. 82% -	37
A. Yes.	38



Q. - of the group who were studied always used a condom. 1

A. Yes, but then you have another 80% who are not using 2  
condoms and they should have been infected by then. I'm 3  
saying that there is a high probability for these women, 4  
if anybody, to be infected. 5

Q. This article was from 1993. 6

A. 1993? 7

Q. Correct. 8

A. Yes, 1993. 9

Q. Still relatively early in the AIDS epidemic, as it is 10  
described. 11

A. These women, these prostitutes were, in 1993 they may 12  
have practised safe sex, but this started - these 13  
prostitutes were prostitutes before, before safe sex 14  
education was introduced. So at the time when they were 15  
practising unprotected sex, the HIV was in bisexual men, 16  
a very high percentage of bisexual men and homosexual 17  
men had a positive test. So the women who were 18  
practising unsafe sex, they should have been infected. 19  
But even if 82% of them are practising safe sex when the 20  
study was done, which was later, is still 80% which were 21  
exposed to a very high risk situation and should have 22  
tested positive. That's what we were saying. 23

Q. Wasn't this study about the risk posed to men by 24  
engaging in sexual intercourse with prostitutes. It's 25  
the risk to the men that the study focuses on. 26

A. There is no evidence of that.	27
Q. Is the article that you have relied on headed	28
'Prostitutes and Risk of HIV: Male Partners of Female	29
Prostitutes' by Sophie Day.	30
A. Sorry, what -	31
Q. We're still on slide 21.	32
A. Which is the paper, sorry? I haven't got the paper.	33
Q. The paper that you have relied on for the quote we see	34
in slide 21, is it a paper headed 'Prostitution and Risk	35
of HIV: Male Partners of Female Prostitutes'.	36
A. Can you tell me what number this is.	37
Q. That's the article that you relied on.	38

A. Yes. 1

EXHIBIT #P30 PAPER HEADED 'PROSTITUTION AND RISK OF HIV: 2  
MALE PARTNERS OF FEMALE PROSTITUTES' PUBLISHED ON 7/8/1993, 3  
THE ACADEMIC DEPARTMENT FOR PUBLIC HEALTH ST MARY'S HOSPITAL 4  
MEDICAL SCHOOL, WITH THE AUTHOR BEING SOPHIE DAY, TENDERED 5  
BY MS MCDONALD. ADMITTED. 6  
7

Q. At the top of the article there, the authors in the 8  
abstract set out their objective to describe risk 9  
behaviours for infection with HIV in male sexual 10  
partners of female prostitutes. Do you agree with that. 11

A. Yes, I agree. 12

Q. The subjects were 112 self-identified male sexual 13  
partners of female prostitutes; 101 who reported a 14  
commercial relationship with a prostitute, five who 15  
report non-commercial relationships only, and six who 16  
reported both. Then there is a heading of 'Results', do 17  
you see that. 18

A. Yes. 19

Q. Reding from the heading 'Results': 'Of the 40 men who 20  
had had previous HIV tests or were tested during the 21  
study, two were infected with HIV. Of the men who would 22  
answer the question 34/94 reported having sex with other 23  
men' - sorry, I will read that again. 24

HIS HONOUR: 34 out of 94. 25

XXN 26

Q. '2 out of 105 reported using injected drugs, 8 out of 27  
105 had a history of blood transfusion, 14 out of 108 28  
reported a past history of gonorrhoea, 44 out of 102 29  
reported paying for sex abroad, and 8 out of 92 said 30  
that they had also been paid for sex. Of the 55 men who 31  
reported paying for vaginal intercourse in the past 32  
year, 45 or 82% of them said that they always used a 33  
condom. In contrast to the 11 non-paying partners of 34  
prostitutes, only two ever reported using a condom with 35  
their partners.' Do you agree that is what is said 36  
under the heading 'Results'. 37

A. Yes. 38

Q. I will read from the heading 'Conclusions': 'Men who 1  
have sex with female prostitutes cannot be assumed to be 2  
at risk of infection with HIV only by this route; 3  
homosexual contact may place them at greater risk. 4  
Despite the heterogeneity amongst male sexual partners 5  
of prostitutes, patterns of use of condoms were uniform 6  
when they were considered as a reflection of the type of 7  
relationship a man had with a female prostitute rather 8  
than a consequence of an individual's level of risk'. 9  
Do you agree I have read out what appears under the word 10  
'Conclusions'. 11

A. Yes. 12

Q. So this article says no more than if a man is having sex 13  
with a prostitute, it shouldn't be assumed that that is 14  
the only risk factor in terms of contracting HIV. 15

A. Yes. 16

Q. There are other risk factors. 17

A. Yes. We totally agree. 18

Q. This study is not about prostitutes and circumstances in 19  
which they can contract HIV. 20

A. We are saying that if - they said that the men here may 21  
be at higher risk by having other sex than by - or 22  
homosexual men, than by having sex with prostitutes. We 23  
totally agree. But we also say that many prostitutes 24  
had sex with bisexual and homosexual men because they 25  
had many of them; one-third who are bisexual or 26

homosexual, could be clarified as bisexual or 27  
homosexual. So prostitutes, even in 1993, were at risk, 28  
at high risk, of developing a positive antibody test. 29  
Even more so at the beginning of the HIV era when they 30  
were not practising safe sex at all. Sexual education 31  
started in 1986/87 I think. 32

Q. Let's again go to the conclusion of the authors of this 33  
report and it starts on the second to last page with the 34  
heading 'Discussion'. Do you have that. 35

A. Yes. 36

Q. Under the heading 'Discussion' there is some discussion 37  
about the sample pool that was used for the study, and 38

then at the bottom of that column, in a passage that has 1  
been underlined, it commence with the words 'Men who 2  
have sex'. Do you see that. 3

A. Yes. 4

Q. Does it then say 'Men who have sex with prostitutes have 5  
been assumed to be at risk of infection with HIV solely 6  
from this route. This study, however, found a high 7  
prevalence of other known risk factors for infection 8  
amongst the subject. Thus 35.5% of the men reported 9  
sexual contacts with other men. Homosexual behaviour 10  
presents an additional risk of infection with HIV in 11  
this group that may be similar to that presented by use 12  
of injected drugs among prostitutes. As condom failures 13  
during commercial sex were also apparently common, it is 14  
possible that female prostitutes are as much at risk 15  
from infection from their clients as clients are at risk 16  
from prostitutes. Female prostitutes and their male 17  
sexual partners together appear to link otherwise 18  
separate parts of large populations through a range of 19  
relationships. Further research on these sexual 20  
networks and the interconnections between the different 21  
risk behaviours is needed for the assessment of 22  
potential transmission of HIV'. That is what it says 23  
there under that heading. 24

A. Yes. 25

Q. The authors in this report are saying basically no more 26

than because a man has sexual intercourse with a 27  
prostitute and the man then becomes HIV positive, you 28  
can't assume that that is the route by which he became 29  
HIV positive. You have to look at other risk factors. 30  
A. Totally agree. 31  
Q. Implicit in underlying this report is an acceptance, 32  
though, that a female prostitute can transmit HIV to a 33  
male customer. 34  
A. They say that, but this is not a study of sexual 35  
transmission. They are commenting what are the risks, 36  
but they don't give you a study. This is not a study. 37  
That's what it said. They say only the potential here 38



is that prostitutes have very many risk factors to 1  
becoming positive and especially, especially since the 2  
prostitutes have so much - have come so much in contact 3  
with bisexual and homosexual men. Being a prostitute is 4  
a problem, but coming with bisexual and homosexual in 5  
contact so often is even bigger. So there should have 6  
been - by 1993, we should have had plenty of 7  
prostitutes, known drug-using prostitutes, testing 8  
positive. There is no such evidence. 9

Q. Let's go back to what you had to say in evidence in the 10  
context of this slide before we actually looked at what 11  
the article said, back to p.158. 'Yes. In our study, 12  
we were addressing different studies, or studies in 13  
different groups, so we start with the prostitutes, 14  
because if any group, heterosexual group, were going to 15  
be found as HIV infected, then it should be prostitutes, 16  
because prostitutes are the most promiscuous 17  
heterosexuals'. Then you go on to say why, talk about 18  
promiscuity and so forth, when the safe sex campaign 19  
occurred. 'And by that time there were many bisexual 20  
and homosexual men who were HIV infected and, as you can 21  
see from what I am quoting now -' slide 21 '- there are 22  
many of these men who are having sex with prostitutes. 23  
For example, in this study, in this study of men who had 24  
sex with female prostitutes, more than one-third 25  
reported having had sex with other men'. Now I pause 26

there. Do you agree that was your evidence. 27

A. Yes. 28

Q. What you were suggesting to this court when you were 29  
presenting slide 21 was that this study somehow 30  
supported you in terms of your theory; that is, someone 31  
is going to be infected as prostitutes, in fact there 32  
aren't that many prostitutes shown to be infected and 33  
there are other routes of infection, supports you in 34  
that HIV is only transmitted in certain ways. 35

A. No, no, no, no. No, this study, it doesn't have any 36  
evidence. It shows - the evidence it has there that 37  
prostitutes have sex, your Honour, come very often in 38

contact with bisexual and homosexual men. This being 1  
the case, and at the same time taking into consideration 2  
that by 1982 there were many bisexual and homosexual 3  
men, in fact a very high percentage of them were testing 4  
positive, they have positive antibody test, and since - 5  
you can't have any other expectation. And since safe 6  
sex campaign started in 1986/1987, by this time, 7  
prostitutes will have had plenty of opportunities to 8  
become HIV positive. So is there such a limit? That's 9  
all it is. These people do not say they have or they 10  
don't. They only tell you what are the risk factors for 11  
prostitutes to become positive or for their clients to 12  
become positive. One of the risk factors of prostitutes 13  
to become positive, apart from being very promiscuous, 14  
is having sex with men who are positive, gay men and 15  
bisexual men, and coming in contact with them and they 16  
have no safe sex. That's all we're saying. That's all 17  
the interpretation. If given that the prostitutes come 18  
in contact often with bisexual and homosexual men, there 19  
is a very high opportunity for them to be also infected. 20  
That's all we're saying . We don't say no more, nothing 21  
less, and that's all we're saying. 22

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E. PAPADOPULOS-ELEOPULOS XXN

Q. The bottom line is, in this article, what they were 1  
looking at was the risk to the male partner in having 2  
sexual intercourse with a prostitute and that, with the 3  
majority of the people in the group who were studied, 4  
there was a consistent use of condoms. 5

A. A consistent use of condoms not in 1982, '84, '85 or '86 6  
or maybe '87 or whatever. It is not only for the men 7  
and woman - don't misinterpret this. I cannot see why 8  
you bringing this study and what is wrong with our 9  
science. Please tell me what is wrong with science 10  
interpretation and our slide. I don't know. 11

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E. PAPADOPULOS-ELEOPULOS XXN

RESUMING 2.25 P.M. 1

Q. Before we move back to the prostitutes studies that we 2  
were discussing before the lunchbreak, I want to ask you 3  
about an article that was produced to you just shortly 4  
before the court resumed. It is an article headed 'The 5  
New England Journal of Medicine' and it is entitled 6  
'Reduction of Maternal/Infant Transmission of Human 7  
Immunodeficiency Virus Type 1 With Zidovudine 8  
Treatment'. Do you have that article in front of you. 9

A. Yes. 10

Q. Do you agree that the New England Journal of Medicine is 11  
a reputable journal. 12

A. Yes. 13

EXHIBIT #P31 ARTICLE DATED 3/11/1994 TITLED 'REDUCTION OF 14  
MATERNAL/INFANT TRANSMISSION OF HUMAN IMMUNODEFICIENCY VIRUS 15  
TYPE 1 WITH ZIDOVUDINE TREATMENT TENDERED BY MS MCDONALD. 16  
ADMITTED. 17  
18

Q. A number of times during your evidence, you made 19  
reference to the fact that there have been no 20  
double-blind studies conducted in relation to the 21  
transmission of HIV. 22

A. Yes. 23

Q. The article that I have just put in front of you relates 24  
to a double-blind study in relation to the transmission 25  
of HIV from mothers to children, doesn't it. 26

A. Yes. 27

Q. Double-blind because there were two groups; one group 28  
got the antiretroviral - 29

A. Double-blind because nobody knew what it was there, 30  
that's why it is double blind. 31

Q. One group who gets the drug and one who doesn't and one 32  
doesn't know in which group they belong. 33

A. Yes, that's why it's double-blind. 34

Q. We go to 'Abstract'. It sets up the method and 35  
double-blind placebo study. It says: 'Maternal/infant 36  
transmission is the primary means by which young 37  
children become infected with immunodeficiency virus 38



type 1 (HIV). We conducted a randomised, double-blind, 1  
placebo-controlled trial of the efficacy and safety of 2  
Zidovudine in reducing the risk of maternal/infant HIV 3  
transmission'. And then it goes on to set out what 4  
drugs women were given. I won't take you through that, 5  
and it concluded at the bottom of that paragraph, in the 6  
background - it concludes: 'Infants with at least one 7  
positive HIV culture of peripheral blood mononucleus 8  
cells were classified as HIV-infected'. Do you agree 9  
that I accurately read out what appears in those two 10  
passages. 11

A. Yes. 12

Q. This was a situation in which pregnant women, a group of 13  
pregnant women, on a random basis, some given a drug and 14  
some given placebo. 15

A. Yes. 16

Q. Now this study, it seems, occurred in the early 90s so 17  
would you agree that was at a point in time where the 18  
use of antiretroviral medication was very recent. 19

A. Yes. 20

Q. And particularly, in terms of attempts to use that 21  
medication, to stop the transmission of HIV from mother 22  
to child. It was in the experimental early days. 23

A. Yes. 24

Q. In fact, the drug that was given to the woman, AZT, is 25  
that the drug that is still given these days. 26

A. Yes I believe so. It is AZT and Nevirapine. 27

Q. Isn't it the case that a combination of drugs are used 28  
because it was discovered that during this experimental 29  
phase, that just using one drug, like AZT, had a problem 30  
in that people became resistant to it. 31

A. No, not in this - in this it was not discovered and 32  
not - this is the reason why AZT is not effective. 33

Q. I'm not asking you about the article at the moment, I'm 34  
asking about a separate topic, some general questions. 35  
What I'm putting to you is this: isn't it the case that 36  
AZT was the drug that was initially used, 37  
antiretroviral, that was initially used with pregnant 38

women but since then, a combination of drugs have been 1  
used because of concerns of a person building up a 2  
tolerance if they were just using one drug. 3

A. No, the question of tolerance is just an interpretation, 4  
there is no evidence. What it is, is when they found 5  
out that the efficacy or safety is not good it was an 6  
easy explanation. 7

Q. Well, you might have your own explanation. 8

A. Or I don't have, I don't have but certainly cannot be 9  
because there is a tolerance to the virus or because the 10  
virus mutates. 11

Q. I'm not putting to you a scenario that I'm asking you to 12  
agree with in terms of your views, what I'm asking you 13  
is this: do you accept that, amongst the HIV experts 14  
people who were working in this field, there was a 15  
change to using a cocktail of drugs, if you like, 16  
because they believed that people were building up a 17  
resistance to one drug. I'm not asking you if that's 18  
your view, I'm asking you if you accept that was a 19  
widely held position. 20

A. Yes I accept. 21

Q. So in this particular article, I'm now referring to P31, 22  
the article in front of you, it was still at a time when 23  
just one drug, AZT, was being used. 24

A. Yes that's true. 25

Q. If we go to the second paragraph, to the passage I 26

alluded you to, the last sentence under 'Abstract': 27  
'Infants with at least one positive HIV culture of 28  
peripheral blood mononuclear cells were classified as 29  
HIV-infected'. We accept what the authors are saying 30  
there, what they are saying is that they didn't look to 31  
see if the children were HIV positive by looking at 32  
anything other than an HIV culture. 33  
A. Yes, but the culture is no different. It is thin and 34  
anti-reactive. 35  
Q. They weren't looking for antibodies - 36  
A. They are looking for antigens. In the anti-body test, 37  
your Honour, you have or the HIV expert called the HIV 38

proteins. You are given the proteins and you look to see if the patients have anti-bodies which react with these proteins. It is called HIV culture is the other way around. You are given the anti-bodies to P24, to the protein which Montagnier found in material which did not have antiretroviral particles and called it HIV protein. So they are taking anti-bodies to this protein and they look even in the culture if there are any proteins or any other supplements which would react with this anti-body and that is called HIV culture. So, is the same test only in the anti-bodies; you are given one parameter and in the culture you are given the opposite parameter, so it is the same test. Especially with P24 which is, according to experts, promiscuous, it reacts. The anti-bodies to P24 are promiscuous.

Q. Going back to this article - and we will come back to the problem and look at the methodology - under the heading 'Results' on the first page: 'From April 1991 through 20 December 1993, the cut-off date for the first interim analysis efficacy 477 pregnant women were enrolled. During the study period, 409 gave birth to 415 live-born infants. The HIV infection status was known for 363 births. 180 in the Zidovudine group and 183 in the placebo group. 13 infants in the Zidovudine group and 40 in the placebo group were HIV-infected'. Do you agree I accurately read out what appears there.

A. That's what it says. I can't find it but I believe you. 27

Q. What we have here is what you have been suggesting that 28  
we need; that is, a double-blind study with a large 29  
random sample and you have dramatically different 30  
results in terms of whether the children were born and 31  
tested positive to HIV. 32

A. No. That is what is in the report. First of all, we 33  
haven't got controls. We haven't got any children who 34  
are born to mothers which are not infected. You should 35  
have that. You don't have that but let's - now, look at 36  
the graph. Please look at the graph which they 37  
categorise - the cut-off mark is given the probability 38

of transmission, which is on page - the fifth page, at 1  
the bottom left corner. There is a graph there. Now, 2  
if we look at the Zidovudine or ADT administration, it 3  
was given to the mothers before they gave birth and at 4  
the time of birth, and to the children, at the time of 5  
birth, in six hours, up till - I forgot which was - I 6  
think six weeks - sorry your Honour, but let me find out 7  
for how long the children were given it. I think it was 8  
six weeks, I may be wrong, maybe 24 weeks. For six 9  
weeks. Beginning eight to 12 hours after birth so the 10  
children were given it for six weeks. Now, ADT cannot 11  
function, cannot have any effect because it is very 12  
rapidly eliminated from the body. So it cannot have - 13  
even if we assume, which there is no evidence for that - 14  
the only way AZT to prevent mother to child transmission 15  
is to become from a pro drug the way that it is given to 16  
an active drug and this doesn't happen. Doesn't happen. 17  
There is no evidence for that. 18

Q. I'm sorry, I didn't understand that last sentence that 19  
you gave, would you mind repeating that. 20

A. Would you like me to explain it again? 21

Q. Just that last sentence. 22

A. AZT is given what is called a pro drug. That is given 23  
in a form which is not active, which is - it doesn't act 24  
against HIV, if we assume that HIV exists. It doesn't 25  
act as an antiretroviral. It has to be present in 26

mother to child transmission. It has to be 27  
triphosphorous-related and only then can it act, can 28  
have an effect and today nobody has presented any 29  
evidence that in the body AZT is transformed from a pro 30  
drug to an active drug. This is the first point. The 31  
second point, the children who are given the drug only 32  
is up to six weeks, and the drug is very rapidly 33  
eliminated from the body. So, if it will have any 34  
effect, it will have been only up to six weeks or even 35  
seven weeks, but if you look at the graph - at about six 36  
weeks, there was no significant difference between the 37  
two graphs. The difference starts to appear after the 38



six weeks. So, the effect must be something else other 1  
than AZT. Whatever it is it cannot be AZT. 2

Q. Just while that is being answered, let me take you to 3  
p.9 of that report. 4

A. Sorry? 5

Q. P.9 of the report. 6

A. Yes. 7

Q. There at the top of that page, the author really sets 8  
out, bottom line of their study: 'We found that 9  
administering Zidovudine to the mother during pregnancy 10  
and during labour and giving it to the infant for the 11  
first six weeks of life, reduced the risk of 12  
maternal/infant transmission of HIV by approximately 13  
two-thirds'. 14

A. Yes, that's what it says, but you don't know how it 15  
happened because it cannot happen. 16

Q. What cannot happen. 17

A. It cannot happen, AZT cannot act as an antiretroviral - 18  
it is not possible for AZT to act as an antiretroviral. 19  
That's the only way to stop - if you assume that it 20  
transmits - if you say that AZT stops, AZT it has to act 21  
as an antiretroviral. It is not possible for AZT to act 22  
as antiretroviral. As I said that is one, the second 23  
point is the significant difference between the placebo 24  
in the AZT starts after six weeks and it can't be 25  
because by then they stop giving AZT. So there might be 26

some other explanation, I don't know what but it cannot 27  
be AZT acting as an antiretroviral. 28

Q. Do you accept that on one interpretation of it is that 29  
the AZT has assisted in preventing the transmission of 30  
HIV from the mother to the child. 31

A. I don't interpret that. I won't give that 32  
interpretation. If it was so, if this interpretation 33  
was correct, then why don't continue to give AZT? AZT 34  
is never given as any mono therapy to anybody. 35

Q. What was that last answer. 36

A. Mono therapy. If it was so good, why are they given a 37  
cocktail or found an antiretroviral and not just AZT? 38

Q. Isn't it the case, as we have already been over, that 1  
the experts in this area, now diagnose a combination of 2  
drugs because of their belief that a single drug causes 3  
a person to build up a tolerance. 4

A. Sorry, single drugs cause? 5

Q. That a single drug - just giving someone one drug means 6  
that they build up a resistance to it and that's why the 7  
experts now prescribe a cocktail of drugs. 8

A. So if you have resistance, then you don't stop 9  
transmission. 10

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E. PAPADOPULOS-ELEOPULOS XXN

Q. Are you aware that AZT has been reviewed by the Therapeutic Goods Administration and approved for sale as an antiretroviral medication.

A. Not as a mono drug.

Q. It has been approved for the use in treatment.

A. As a combination, in combination with other drugs.

Q. Are you aware that this particular study stopped with those first results that I have taken you to, that is, when they have looked at that first group of women because there were such great concerns about the ethics of conducting a test like this when there was such a strong correlation between the AZT and the child not contracting HIV, are you aware of that.

A. They present a correlation here but, as I said, they stop many, many studies halfway through because they saw there is very good evidence, but after that they found no such evidence. In here they stopped the study. Not the first study. They did the same thing with Nevirapine, they had 90 - they went up to 90 people on the placebo and then they stop it. There was no evidence but they stop it.

Q. Isn't it the case -

A. This thing, that is what they do.

Q. Do you accept that as a result of this study and the results that came from it, bioethical concerns resulted in there being a decision internationally to conduct no

more double blind placebo-type studies. 27

A. Yes, they don't conduct, and that is the problem. If we 28  
listen to Sir Gustav Nossai, we should not rely on only 29  
one study, we should always have confirmatory studs. 30  
Not one but a few confirmatory studies and, if you like, 31  
I will read it to you. There should be confirmatory 32  
studies. You can't rely - even if this study was 33  
perfect and everything was as it is interpreted, and was 34  
all scientific data on which it happened, you cannot 35  
rely on one study you should continue to have at least a 36  
few confirmatory studies. Never happen with AZT. 37

Q. Let us go back to this issue we have touched on before 38

about the method by which a child was diagnosed as being 1  
HIV positive. If I can take you to p.4 of your report 2  
there is a heading 'laboratory methods'. 3

A. Yes. 4

Q. You will see it reads 'HIV cultures of peripheral blood 5  
miniscule cells and lymphocyte phenotyping were 6  
performed in certified laboratories according to 7  
published standard methods'. See it says that. 8

A. Yes. 9

Q. It gives a footnote, 22 or 23. 10

A. What page is it, could you tell me please? 11

Q. 12. 12

A. Yes. I am on p.14 - p.12, yes. 13

Q. And you see on p.12 there are the two footnotes referred 14  
to, 22 and 23. 15

A. References here? What I have in my page? 16

Q. Do you have p.12. 17

A. Yes, I have p.12. P.12 only references. 18

Q. Do you see the numbers 22 and 24. 19

A. Yes, I do see them. You said footnotes. They are given 20  
as references here. 21

Q. Aren't those the references that have been relied upon 22  
under the heading laboratory method. They talk about 23  
the standard methods and those are the two footnotes. 24

A. These are the references they gave, they are not 25  
footnotes. They are the references they suggest. 26

- Q. What you glean from that is there was no antibody 27  
testing involved in this study, that is the approach 28  
that was used, immunophenotyping is a molecular approach 29  
by looking at nucleic acid. 30
- A. Phenotyping has nothing to do with culture. Phenotyping 31  
has nothing to do in proving HIV infection. Phenotyping 32  
means separating the lymphocytes in different classes. 33  
That is what phenotyping is, nothing to do with culture 34  
or lymphocytes. Please give me - 23 you said? 35
- Q. 22 and 23. 36
- A. There it says 22, it says 'Standardisation on sensitive 37  
human immunodeficiency virus culture procedures and 38



establishment of a multi centre quality assurance	1
program for AZT clinical trial group'. Has nothing to	2
do with nucleic acids.	3
Q. It is a molecular approach.	4
A. It is not molecular approach. Where do you see	5
molecular approach here?	6
Q. I put to you it is clear from that document that the	7
tests relied on here for the children were not antibody	8
tests.	9
A. I am not saying they were antibody tests.	10
Q. You were a moment ago.	11
A. It is the same reaction, it has nothing to do with	12
nucleic acid, nothing at all. This here, they never use	13
nucleic acid. This title means - does not even suggest	14
remotely that they use nucleic acid and they did not.	15
Culture is not nucleic acid - never nucleic acid. Never	16
anyone will interpret culture as being nucleic acid	17
tests.	18
Q. I want to turn back to now where we left off with the	19
prostitute studies, slide 23. A8 is your PowerPoint	20
presentation.	21
A. You mean -	22
Q. And slide 23, on the bottom left-hand corner.	23
A. Slide 24.	24
Q. 23.	25
A. 23, okay.	26

Q. In that slide you refer to a study that was done in 27  
Glasgow in Scotland. 28

A. Yes. 29

Q. Study that occurred in 1992. 30

A. Yes. I am sorry, can't find the paper. One second. Is 31  
this the one you gave us today? 32

Q. This is a paper that you have relied on. 33

A. Yes, yes, but that is one of the latest you gave us, 34  
that is what I am asking. I cannot see slide 23 here. 35

MS MCDONALD: I have no objection to someone assisting. 36

A. Unless they messed them up again. Okay, sorry. 37

Q. Do you have that now. 38

A. Yes, I do. 1

Q. That is a - it is not a particularly sensitive study, 2  
the article goes to a couple of pages. 3

A. Not a particularly sensitive study, an article that goes 4  
for a couple of pages, yes. 5

Q. The title probably explains what it was all about, that 6  
is, HIV prevalence among female street prostitutes 7  
attending a health care drop-in centre in Glasgow. 8

A. Yes. 9

Q. That is the document you relied on for what we see in 10  
number 23 in your PowerPoint. 11

A. Yes. 12

EXHIBIT #P32 PAPER 'HIV PREVALENCE AMONG FEMALE STREET 13  
PROSTITUTES ATTENDING A HEALTH CARE DROP-IN CENTRE IN 14  
GLASGOW' MARKED IN JOURNAL AIDS 1992 VOL.6, NUMBER 12, 15  
TENDERED BY MS MCDONALD. ADMITTED. 16

17

XXN 18

Q. Let me remind you what you said when you put this slide 19  
up for us during of your evidence, p.158 line 31, in the 20  
middle of an answer because you show a number of slides 21  
and you spoke to the slides. You get to slide 23 and 22  
this is what you said 'Here is another study published 23  
again from England and it was 1992, in Glasgow. They 24  
divided the prostitutes into prostitutes who are using 25  
intravenous drugs and prostitutes who are non-drug 26

users. Of 127 prostitutes who were using drugs, six 27  
were found to be positive. Of 165 who are not using 28  
drugs, none, zero were, found to be positive'. You 29  
agree that was your evidence. It is a simple question: 30  
do you agree that was your evidence. 31

A. If it is there, it is true. 32

Q. Were you putting that before the court to say look there 33  
is some proof that HIV is not sexually transmitted 34  
between heterosexuals because when we look at the people 35  
who had it they were found to be drug users as well so 36  
there is an alternative explanation. 37

A. Yes. 38

Q. Let us just look at what this was actually about though 1  
shall we, this article. You see, wasn't this an article 2  
that was conducted in relation to women who were 3  
attending at a drop-in health centre in Glasgow. 4

A. Yes. 5

Q. And it starts off by explaining what they did or why 6  
they did it. It reads 'There is little documentation of 7  
the prevalence of HIV among women who work predominantly 8  
as street prostitutes in the United Kingdom. The 9  
establishment of a drop-in centre (DIC) for Glasgow's 10  
(Scotland UK) street working prostitutes in May 1998 by 11  
Strathclyde Regional Council provided a unique 12  
opportunity to determine the prevalence of HIV amongst 13  
this group'. So, are they there saying that because you 14  
have got these women going to this drop-in centre this 15  
is giving you the opportunity to have a look at this 16  
question, the issue. 17

A. Maybe. 18

Q. It goes on to explain the hours that the drop-in centre 19  
is open, run by a team of social workers, nurses and 20  
doctors employed by the Social Work Department and the 21  
Greater Glasgow Health Board. 22

A. Yes. 23

Q. It goes on to set out the services, a wide range of 24  
services are provided including condoms, contraception, 25  
injecting equipment, drug and HIV counselling services, 26

cervical screening, the treatment of a wide variety of 27  
medical conditions, especially cutaneous sepsis and 28  
trauma and comprehensive social welfare guidance and 29  
assistance'. You agree that is what is set out there. 30

A. Yes. 31

Q. This is hardly a random sample of prostitutes from the 32  
streets of Glasgow, is it, this is a group of women who 33  
are voluntarily attending a centre where they provide 34  
every service they possibly can to stop the transmission 35  
of HIV. 36

A. Yes. 37

Q. So, these are women who have been educated about 38

contraception and condoms, the subject of this study. 1

A. They were educated at the end of '98, not before that. 2

If - and, more so, many, many, not only prostitutes, do 3

not take any consideration of sexual education 4

practices. There are studies - not in this study but 5

there are studies where prostitutes and heterosexuals 6

always do not carry much evidence or sexual education 7

and gay men, on the other hand, before any sexual 8

education, they realise what is going on and practice 9

safe sex by their own initiative. So, yes, they are 10

doing all these things there of course. 11

Q. This is a group of prostitutes who are choosing to avail 12

themselves on a regular basis of services to assist them 13

in not contracting HIV: condoms, counselling and the 14

like. 15

A. Yes. Then in 1992, 1991 when the study was conducted, 16

yes. 17

Q. Go over to p.154. 18

A. You mean the next page - 19

Q. To the ultimate paragraph beginning 'No new HIV 20

infection was identified amongst women not previously 21

known to be infected'. So there were no new cases 22

identified. Do you agree that is what it says. 23

A. Yes, that is what it says. 24

Q. Considering HIV entered the IDU prostitute population no 25

later than 1995 (5), this is very reassuring and is in 26

accordance with the low HIV prevalence, 1.8 per cent in 27  
1990 found in a voluntary survey of Glasgow IDU, 28  
intravenous drug users, using a community-wide sampling 29  
strategy and also with the low prevalence rates of 30  
infection found amongst prostitutes having a named HIV 31  
test in Scotland during 1989, none out of 74 and 1990, 32  
one out of 86. 33

A. Yes. So there was no - even when no sex education, 34  
there never was any prostitutes having quality test. 35

Q. At that point in Glasgow in Scotland a very low 36  
prevalence rate of HIV. 37

A. Yes. 38



Q. Not talking about very big sample groups here, are we. 1

A. There always been non-existent so continuing to be 2  
non-existent. They were not there, when no sexual 3  
education, and were there when there - and were not 4  
there when sex education. 5

Q. I want to come now to the Philpot study, which is what 6  
you have relied on. That was a study conducted in 7  
Sydney Australia and was the subject of your PowerPoint 8  
slides number 25 and 26. In relation to this particular 9  
study, there are two slides. 10

A. Please one moment, yes. 11

Q. Two slides, 25 and 26. 12

A. Yes. 13

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E. PAPADOPULOS-ELEOPOULOS XXN

Q. Was the article you relied on an article named A Survey of Female Prostitutes At Risk of HIV Infection and Other Sexually Transmissible Diseases authored by Philpot, is that the one.

A. Yes.

EXHIBIT #P33 ARTICLE ENTITLED A SURVEY OF FEMALE PROSTITUTES AT RISK OF HIV INFECTION AND OTHER SEXUALLY TRANSMISSIBLE DISEASES AUTHORED BY C.F. PHILPOT AND OTHERS TENDERED BY MS MCDONALD. ADMITTED.

Q. At the top under the words 'Abstract' and 'Objective', it reads 'To determine risk factors for the transmission of human immunodeficiency virus (HIV), including injecting drug use (IDU), sexual behaviour and other sexually transmissible diseases (STDs) in female prostitutes who attended the Sydney Sexual Health Centre (previously STD)'. You agree that's what it says.

A. This case, I agree it's there, it's written, I'm agreeing.

Q. Under that there is the design, that is how many people were participating in the study.

A. Yes.

Q. And the main outcome was 'All the women were seronegative for HIV but a number of major risk factors for infection were identified'. You agree that's what it says there.

A. Yes, of course I agree, it's there. 27

Q. Then it goes on to set out some of the risk factors that 28  
may or may not have been present. We go to the bottom 29  
of that column, we come to 'Conclusion'. Do you see 30  
that. 31

A. Yes. 32

Q. The authors say 'In spite of behaviour change by some, 33  
there are still many women working as prostitutes in 34  
Sydney who remain seriously at risk of HIV infection. 35  
We recommend more widespread use of barrier methods of 36  
contraception, intensified efforts to prevent the 37  
sharing of intravenous needles, closer monitoring of the 38

health of prostitutes, and scientific study of their 1  
paying and non-paying sexual partners'. You agree 2  
that's what it says there. 3

A. Yes, I agree. 4

Q. Underpinning this whole study and article I suggest is 5  
the belief of the authors that HIV can be heterosexually 6  
transmitted. 7

A. They may believe, but we are presenting here their 8  
evidence, we are not presenting beliefs. I repeat in 9  
science we are repeating, we are saying what their 10  
finding is, not all their beliefs. They had zero and 11  
they said that means they don't practise safe sex. They 12  
still don't practise safe sex; that's what the study 13  
tells you, the prostitutes don't practise safe sex, and 14  
still zero of the prostitutes are infected. 15

Q. Can I take you to the column headed Introduction. About 16  
half way down there's a paragraph commencing 'Globally'. 17  
Here the authors refer to what's happening in the 18  
international arena. 'Globally, studies of female 19  
prostitutes continue to show wide variation in the 20  
prevalence of HIV infection. In Africa, and 21  
increasingly in Asia, female prostitution is a major 22  
conduit for transmission and a high proportion of 23  
prostitutes are infected. In Australia, most of Europe, 24  
and the UK, HIV infection in female prostitutes is 25  
mainly IDU related and has shown little tendency to 26

spread beyond identified high risk groups. HIV 27  
prevalence rates in female prostitutes are higher in the 28  
USA, but vary greatly from one locale to another. While 29  
risk levels vary with socio-economic status and racial 30  
background, there is still a strong association between 31  
IDU, prostitution and HIV infection in that country. 32  
Many women who have become infected have sexual partners 33  
who are injected drug users'. You agree that's what it 34  
says there. 35  
A. Yes. 36  
Q. They say a few things in that paragraph. One of those 37  
is that certainly in a number of countries HIV positive 38

results are commonly found in prostitutes. 1

A. They say IDU, intravenous drug users. They repeat it is 2  
intravenous drug users. No mention is made there of 3  
non-drug users. 4

Q. Let me take you to that passage 'In Africa, and 5  
increasingly in Asia, female prostitution is a major 6  
conduit for transmission and a high proportion of 7  
prostitutes are infected'. They are not talking about - 8

A. Who said there is no drug use in Africa and in Asia? 9

HIS HONOUR 10

Q. No, the sentence doesn't talk about drug use. It says 11  
'In Africa, and increasingly in Asia, female 12  
prostitution is a major conduit for transmission and a 13  
high proportion of prostitutes are infected'. 14

A. There don't discriminate, one. Secondly, there is no 15  
study from Africa. As I said, we are not talking - we 16  
are saying all these people - we are discussing what is 17  
in the studies. In this study that's all the author 18  
said, in Australia there is no HIV infection in 19  
non-drug-using prostitutes, and that's what we are 20  
reporting. We are not - we cannot make assessments of 21  
their claims. It's one thing to claim and another thing 22  
to have evidence. 23

Q. In that sentence that I just read to you, they do give 24  
some bases for their conclusion. They refer to 25  
footnotes 4 to 6 which are three papers. 26

A. Sorry? 27

Q. They refer to footnotes 4 to 6 and if you go to 28  
footnotes 4 to 6 at p.388 there are three studies there 29  
on which they rely, one relating to Nairobi, another 30  
relating to India, and the third relating to Thailand. 31

A. These studies - I must admit probably I have them but I 32  
can't recall them, I can't remember what was in these 33  
studies, but no placebo control studies or blind control 34  
studies - not placebo, sorry, blind control studies in 35  
Asia or in Africa. There are very few studies we have. 36  
There are two from Uganda on heterosexual transmission 37  
and they are sure there is no heterosexual transmission, 38



so there's no evidence. I wish prosecution will come up 1  
with a study, I wish they will come up with a study, and 2  
that's what they should do if they want to prove us 3  
wrong. If they want to prove our conclusion wrong, they 4  
should come up with studies which are random control 5  
studies and show transmission. We are expecting - we 6  
have been asking for this, and I would be very glad if 7  
you come up with such studies. 8

XXN 9

Q. Don't you think there might be some bioethical 10  
consideration surrounding double blind control placebo 11  
studies in relation to the transmission of HIV. 12

A. Sorry, I correct myself, I say you can't do placebo 13  
studies in sexual transmission, but there should be 14  
studies, control studies, and there are not any. Please 15  
give us, we've been asking. Since the moment we have 16  
started publishing on HIV and AIDS, we were presenting 17  
our evidence and always asking for someone to prove us 18  
wrong. We've been asking. We never said 'Here it is, 19  
we're the truth'. Always said 'Please come with 20  
evidence and prove us wrong'. To date nobody has come 21  
with any evidence on any of our claims to prove that we 22  
are wrong. We are asking for this. 23

XXN 24

Q. Do you think it might be difficult to find people to 25  
volunteer to participate in a double blind study on the 26

transmission of HIV. 27

A. Then you don't have a study, then you cannot prove. You 28  
got to have these studies. If you don't have studies 29  
you cannot prove. 30

Q. Let's go back to that passage. 31

A. Sexual transmission is very easy to prove. 32

HIS HONOUR 33

Q. It's not so easy to prove, is it. Let's take, for 34  
example, a group of prostitutes. It's not so easy to 35  
prove because many of them would be using intravenous 36  
drugs. There may be a number of other reasons why they 37  
may contract HIV if HIV exists. 38

A. Your Honour, it would be very hard to prove sexual transmission because these women may lie. The women may lie, they may have other reasons for being infected, but when you come with proof of transmission, then that is what we need. If you claim sexual transmission, you may or may not have it because people can lie.

XXN

Q. So when a result goes against you on one of these studies and someone who is not in a risk group is diagnosed as being HIV positive, your answer to that is they must be lying about something.

A. No, I am saying give the study, we want that study, please give us a study. We would be very, very glad to have a study which proves sexual transmission. Please do. In gay men or heterosexual, please come with such evidence.

Q. Let's go back to the study you relied on to advance the proposition that HIV is not heterosexually transmitted.

A. That's what we are doing.

Q. No, I will ask the question and if you would respond please.

A. Sorry.

Q. Going back to the passage at p.384, the first page, the same article we've been looking at.

A. Philpot.

Q. Yes. The first page right on the front cover, p.384,

the heading on the top on the right-hand side is 27  
Introduction. Then I took you to the passage that 28  
starts halfway down with the word 'Globally'. What I 29  
put to you is that there the authors are relying on 30  
studies from other countries in the world to suggest 31  
that in those countries female prostitution is a major 32  
conduit for transmission, and the authors there, if you 33  
read on, are distinguishing between these countries and 34  
more western countries like Australia and Europe where 35  
there does seem to be more of a link between intravenous 36  
drug use and the presence of HIV, so they are clearly 37  
drawing a distinction in that paragraph. Do you agree 38

with that. 1

A. You mean they make a distinction between Africa and the 2  
western countries? 3

Q. They make a distinction here between Africa and 4  
increasingly Asia as compared to Australia, most of 5  
Europe and America. 6

A. Can you tell me how an infectious agent can discriminate 7  
between black and white or black and Asians and 8  
Australian and Asians, how can you discriminate that? 9

Q. I'm asking you a very simple question here if you just 10  
listen to the question. 11

A. Yes. 12

Q. Do you accept that the authors in that passage are 13  
making a distinction between two different groups of 14  
countries, those that you can look at like Africa and 15  
Asia where you can see that there is this apparent link 16  
between prostitution and HIV and the second group where 17  
there seems to be a greater correlation with intravenous 18  
drug use. 19

A. They do. 20

Q. This study occurred in Australia between 1986 and 1988, 21  
didn't it. 22

A. Yes. 23

Q. So that was right back at the beginning of what was 24  
known as the AIDS epidemic. 25

A. Yes. 26

Q. What can you tell us about the demographic of people who 27  
were being diagnosed as being HIV positive in those very 28  
early days, what part of the community was it. 29

A. Mostly gay men, like they are today as well, but gay men 30  
and heterosexual men frequent prostitutes so again if 31  
anyone should be infected, it should be prostitutes and 32  
we don't have it. 33

Q. You just put to the court that gay men frequent 34  
prostitutes. Where do you get that from. 35

A. You had the one before, the London study, exactly what 36  
they show, the English study where they show that's what 37  
they do, one-third bisexual or gay men classified as 38

bisexual or gay men. We are not much more different. 1

Q. You have no evidence that gay men in Australia are more 2  
likely to frequent female prostitutes. 3

A. They do in England so what's the difference here? 4

Q. Let's go back to here. Isn't it the case the 5  
demographics of the people who were being diagnosed as 6  
HIV positive in the time that this study was being done 7  
was predominantly gay men. 8

A. Yes, and still gay men. 9

Q. And the demographic has varied across the world, some 10  
countries there are more women who are infected than 11  
other countries. 12

A. That's what I am saying. We say in Africa and in Asia 13  
there is a vast epidemic of HIV infection because of 14  
heterosexual sex, and in Australia we don't have it. 15  
For why? This is after 25 years of AIDS. Surely there 16  
can't be only one explanation for HIV to discriminate 17  
between Asian and Africans on the one side and 18  
Europeans, Australians and white Americans in the USA. 19  
That's the only explanation. 20

Q. There are plenty of women now in Australia who have been 21  
diagnosed as HIV positive. 22

A. There are. 23

Q. You accept that basic proposition that in Australia at 24  
present there are plenty of women who have been 25  
diagnosed as being HIV positive. 26

A. What do you mean by 'plenty'. Plenty 10, plenty 20,	27
plenty 100, plenty 1,000 or 100,000. .	28
Q. Many.	29
A. 'Many' can be, if my English is right, anything more	30
than five.	31
Q. Let me ask you this then: what's your understanding of	32
how many women in Australia have been diagnosed as being	33
HIV positive.	34
A. I don't know.	35
Q. In excess of 100.	36
A. I don't remember. That's why I'm asking what do you	37
mean by 'many'.	38



Q. I will find you a figure. 1

A. I will give you England because I am aware of what's 2  
going on in England. Up to a few years ago, I think it 3  
was 2003, something like that, plus or minus one, there 4  
were only a few hundred, only a few hundred, I think it 5  
was 103 men, 103 women, a few hundred of British born 6  
people who were diagnosed as being HIV infected from 7  
heterosexual circumstances. All the rest, thousands and 8  
thousands were either Asian or Africans, so again either 9  
were migrants or born in England. It means that this 10  
virus somehow not only discriminates between continents 11  
but discriminates between races in the same country. 12  
Can't be; infections do not discriminate. 13

Q. Do you accept the proposition that globally, 14  
internationally and in every region of the world more 15  
adult women than ever before are now living with HIV. 16  
Is there any region you want to look at, anywhere in the 17  
world, there are more women now living with a diagnosis 18  
of HIV than was previously the case. 19

A. Of course. We are doing more tests, and the more tests 20  
we are doing - they are antibody tests. No antibody 21  
test is 100% specific. 22

Q. Let's go back to this article. 23

A. Where are you going now? 24

Q. Back to Philpot. That particular study on female 25  
prostitutes occurred at a time when HIV was very much 26

limited to the gay community, the male gay community in 27  
Australia. 28

A. We agreed on that. 29

Q. You are not really going to find a lot of female 30  
prostitutes who are HIV positive in those circumstances. 31

A. If you find it anywhere you find it in prostitutes. I 32  
say two reasons, one because they are very promiscuous, 33  
and two because they are frequented, they have clients, 34  
gay and bisexual men. 35

Q. There's nothing in this study to support that 36  
proposition in relation to these findings, is there. 37

A. I said this is not a study. I am referring back to the 38

study we discussed just half an hour ago, whatever. 1  
Q. Let's keep moving through this article. The last 2  
paragraph reads as follows, last paragraph on the front 3  
page 'A recent review of the literature on women and HIV 4  
makes three major points. These are: (1), worldwide the 5  
vast majority of AIDS cases arises from heterosexual 6  
transmission; (2) in the non-westernised world women and 7  
men are infected in almost equal numbers, while in the 8  
West women represent an increasing proportion of new 9  
cases; and (3) there is some evidence that transmission 10  
occurs more readily from men to women than vice versa. 11

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E. PAPADOPULOS-ELEOPULOS XXN

Co-factors for transmission to women include other STDs, 1  
anal sexual intercourse and possibly the use of the oral 2  
contraceptive pill.' That's what the authors of this 3  
report say. 4

A. Yes. 5

Q. So yet again another article that you have relied on in 6  
which the authors have a completely contrary view to 7  
yourself. 8

A. There was a - these things suggest - they don't say 9  
'prove', they don't have evidence. We are looking for 10  
evidence. We are not looking for interpretation, I 11  
repeat it again and again. These authors here interpret 12  
the equal number in Africa and in Asia of men and women 13  
testing positive as proof that this heterosexual is 14  
transmitted and yet this is a point - this is a finding, 15  
not just a point, this is a finding which Padian has 16  
severely criticised. You cannot conclude from the fact 17  
that in Africa we have the same number of men and women 18  
testing positive as proving that there is HIV and this 19  
test prove HIV infection and HIV is heterosexually 20  
transmitted. This is not mine, these authors here 21  
choose to interpret differently but we are looking for 22  
data, for evidence, not for interpretation. 23

Q. Let's look at some more data which you have chosen not 24  
to put before the court, p.386. 25

A. The same article? 26

Q. Yes. 27

A. Yes. 28

Q. When you were telling the court about zero, no, none of 29  
these women were found to be HIV positive did you think 30  
to present a balanced perspective, that you might 31  
mention the topic of condom use. 32

A. I said this woman were not found to be positive. What 33  
balanced - this is what is reported. There are no women 34  
positive. What can I say? How can I balance it or 35  
unbalance it? They say there was no woman infected. 36

Q. Let's go to what they say was the situation with condom 37  
use. Bottom paragraph of the left-hand column on p.386, 38

heading 'Condom use', see that. 1

A. Yes. 2

Q. 'Nearly all prostitutes engaged in oral and vaginal sex 3  
with their clients. A majority, 160 out of 231, 69%, 4  
use condoms all the time for vaginal sex.' There's 5  
reference to the table. 'But less than half this number 6  
use condoms for oral sex as well. Most of them reported 7  
they were not engaged in anal sex with clients giving as 8  
a reason the risk of HIV infection. Nevertheless 21 or 9  
9% of women said they did sometimes engage in anal 10  
intercourse with clients and three of those said 11  
infrequently. 14 of the 21 never used condoms for anal 12  
sex and only one used a condom on each occasion whilst 13  
the remaining used condoms infrequently.' They then go 14  
on to talk about these women's behaviours with their own 15  
sexual behaviours. You agree. 16

A. Of course I agree, it is there. 17

Q. It's part of the process. 18

A. Sorry, sorry, I agree. 19

Q. So this isn't again a random sample of educated people. 20  
This is a group of women, of prostitutes, in the mid 80s 21  
when the virus was very much limited to the gay 22  
community, who, on many occasions, were actually 23  
practising safe sex. 24

A. Yes but not all the time. Look, let me - I think we are 25  
going, your Honour, again and again with this thing. 26

All we want, all right, we have this - we have presented 27  
this studies. We have presented evidence from there, we 28  
did not present interpretations. Now, let's have a few 29  
studies. Certainly one study and a few confirmatory 30  
studies where there is evidence of heterosexual 31  
transmission with prostitutes or any other heterosexual 32  
group and then we will stop arguing. I don't know why 33  
we continue arguing and pick here and there on things 34  
which are not evidence. They are not data, so let's 35  
have some data. If you want to prove us wrong, please 36  
give us some evidence. Give us one study which proves 37  
sexual transmission and a few confirmatory studies and 38



then we will have no argument. 1

Q. Do you appreciate that your role before this court as a 2  
witness is not to run an argument but it is to assist 3  
this court with the benefit of your expertise. 4

A. Yes. 5

Q. And that involves presenting the evidence both for and 6  
against your position in a balanced way. 7

A. There is no evidence, we cannot find any evidence which 8  
prove heterosexual transmission, so please give it to 9  
us. 10

Q. Have you attempted at any stage to present your 11  
Powerpoint slides in a balanced way that gives the court 12  
the evidence both for and against your argument. 13

A. I haven't got data. We have interpretation but we have 14  
not got data. If we can find some data, if you can give 15  
us the data, then we totally agree. Give us data 16  
please, not interpretation. 17

MS MCDONALD: I am about to move on to a new study now. 18  
Is that an appropriate time? 19

HIS HONOUR: Yes, we will have a 10 minute break now. 20

ADJOURNED 3.35 P.M. 21

RESUMING 3.45 P.M. 22

Q. I want to move on to what you referred to as the 23  
Filipino female commercial sex workers study, 27. If 24  
you go to 27, on A8. Do you have that. 25

A. Yes. 26

Q. That relates to a study of the Filipino female	27
commercial sex workers, correct.	28
A. Yes.	29
Q. So another study that you have relied on on this topic	30
of HIV transmission to prostitutes.	31
A. Yes.	32
Q. The study that you relied on was that one that was	33
headed 'Natural History of HIV Infection in Filipino	34
Female Commercial Sex Workers'.	35
A. Yes.	36
	37
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EXHIBIT #P34 ARTICLE ENTITLED 'NATURAL HISTORY OF HIV 1  
INFECTION IN FILIPINO FEMALE COMMERCIAL SEX WORKERS' 2  
AUTHORED BY CORAZON R. MANALOTO TENDERED BY MS MCDONALD. 3  
ADMITTED. 4

5  
Q. Before we get to the details of what you told us about 6  
this study and about what the study says, do you agree 7  
epidemiological studies have shown that attempts to 8  
prevent the spread of HIV have been more effective in 9  
the Philippines than many other areas of the world, in 10  
particular other areas of Asia. 11

A. No, there is no such evidence. 12

Q. You haven't heard of that before, you are not aware that 13  
that is a view. 14

A. No. 15

Q. That that view is - 16

A. First of all, you have to have evidence for 17  
transmission. It is a scientific fact. I'm sorry but I 18  
can't go beyond it. To claim that something is 19  
inhibited by or prevented you have to have, first, 20  
evidence that it is happening. Then you prevent it. So 21  
first you have to have evidence for happening. Sorry, 22  
but that is science. 23

Q. Do you accept that the prevalence of people who test 24  
positive to a test for HIV is much less in the 25  
Philippines than it is in other areas in Asia. 26

A. The studies from everywhere in Asia are very, very 27  
scarce. So I cannot see from anywhere else, better 28  
evidence. So it's no better, no worse than anywhere 29  
else in Asia. 30

Q. Let's go to what you have told us about this study, 31  
p.159, line 21, and you said this when we got to slide 32  
No.27. 'This slide was conducted in the Philippines. 33  
They were testing from 1985 to 1992. They tested 53,903 34  
prostitutes. 72 were found to have ELISA and "a 35  
confirmatory western blot". First of all, there are a 36  
few things to be said about this finding. The 72 37  
prostitutes out of 53,903 tested is so small that no 38

test, even if the test was nearly one hundred per cent 1  
specific, you will find 72 to have false positive. 2  
Secondly, as the authors wrote, "All infections have 3  
been acquired -" they said, "- through vaginal 4  
intercourse with heterosexual men. Intravenous drug use 5  
was denied in all cases." Just because they denied, 6  
that does not mean that it was not happening. 7  
Furthermore, they said that "The majority of 8  
seroconversions occurred prior to 1989 and the rate 9  
declined significantly after 1987". One wonders if this 10  
has anything to do with the changes of criteria of the 11  
zero positive test.' So you agree that was your 12  
evidence in this court. 13

A. Yes, yes, I do. 14

Q. A few things about that. This was a test in which a 15  
number of people were tested and 72 were found to test 16  
positive. 17

A. Yes, over 50,000 cases and only 72 found positive. If 18  
you take a random heterosexual population in Australia 19  
even if - or anywhere else where no HIV has ever been 20  
introduced by any means, you will find that percentage 21  
of people testing positive even if the test is near, is 22  
near one hundred per cent specific. 23

Q. So your response to that positive finding of 72 people, 24  
that they have positive results to the HIV test, must be 25  
a false positive or perhaps maybe they are lying, maybe 26

	they are intravenous drug users.	27
A.	Even if HIV exists, if the existence of HIV tests are	28
	nearly one hundred per cent specific you will still find	29
	72 out of out of 50,000 people tested to have a positive	30
	test, no matter what criteria you are using.	31
Q.	Let's go to the study itself. On the front page, front	32
	cover heading 'Summary', see that.	33
A.	Yes.	34
Q.	'A prospective follow-up study of the progress of HIV	35
	infection from seroconversion to onset of opportunistic	36
	infections (OI) indicative of immune deficiency and to	37
	death was performed in a cohort of 54 HIV-1 antibody	38

positive Filipino female commercial sex workers. The  
cumulative probability of having a CD4 plus T cell count  
of less than -' there is a figure there 200\mm to the  
factor of 3, and it goes on. I won't read all of that  
out. You agree that summary sets out what the article  
is about.

A. What are you talking about? I don't understand.

Q. It's the purpose of the summary, to summarise what this  
is about.

A. Yes, they start by saying that the cumulative  
probability of having a CD4 count of less than 200\mm,  
small 3 and/or an OI or indicative of severe  
immunodeficiency or 52.9% within five years. In 73.8%  
with six years after sero conversion. Yes, give us -  
you had a probability.

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E. PAPADOPULOS-ELEOPULOS XXN



Q. The authors go on to discuss the situation in Asia. 1  
Then the authors of the report - 2

A. Sorry, but I don't understand what, why, the way you 3  
read this, how you interpret it. 4

Q. You're here to answer the questions. 5

A. Sorry. 6

Q. I'm asking you another question. Do you agree that the 7  
authors then go on to talk about the situation in Asia, 8  
and they say, starting in the passage immediately under 9  
the summary 'Although more than ten years have passed 10  
since the first reports of HIV infection in the western 11  
hemisphere, introduction of the virus into South-East 12  
Asia has been a recent event'. Do you agree that is 13  
what is set out. 14

A. Yes, I do. 15

Q. And for that proposition, they refer to three different 16  
studies, or there are three to six in the references. 17

A. Yes. Yes, I agree. 18

Q. So at the time this study was done, that is in 1994, the 19  
introduction of this virus in South-East Asia was still 20  
very recent. 21

A. Was still very recent. 22

Q. And don't you think that might impact on the number of 23  
people who test positive for HIV in a study group. 24

A. In time they decrease, they do not increase. During the 25  
time they decrease. 26

Q. Then other countries are canvassed. If we go over to 27  
the next column, the paragraph commencing with the words 28  
'The first case of AIDS', do you see that. 29

A. Yes. 30

Q. 'The first case of AIDS in the Philippine archipelago 31  
diagnosed in 1984 was a male homosexual who acquired the 32  
infection abroad. Ten years later -' so at the time 33  
this report was done '- 459 HIV1 infections have been 34  
reported, of which nearly 100 have been diagnosed as 35  
AIDS'. That's what it says there. 36

A. Yes. 37

Q. So when you're talking about 72 people being found to be 38

positive to the test for HIV in this study, you're 1  
talking of 72 people in a country in which the total 2  
number of diagnoses has been 459. 3

A. In gay men. In homosexual men. 4

Q. Let's go back to the article. It doesn't say that's in 5  
homosexual men. It says the first case that's reported 6  
was a male homosexual ten years later. 7

A. Yes. 8

Q. 459 HIV1 infections have been reported. 9

A. Yes. 10

Q. Where does it say that's all homosexual men. 11

A. It doesn't say, but - all right, let's say there were 12  
400 heterosexual - or total. Now, they are not testing 13  
that. They are not testing. The test became widespread 14  
after. Without testing we don't know how many have been 15  
found. People were not being tested for HIV. 16

Q. Isn't the bottom line this, that when you said it was 72 17  
people out of a sample of 53,903, that sounds a lot 18  
different to actually saying in fact in the whole 19  
country, out of the whole population, there have only 20  
been 459 diagnoses - 21

A. Sorry, but the whole population was not tested. We 22  
don't know how many of the whole population, of how many 23  
millions, I don't know how many there are, how many have 24  
been tested. You have to have - to compare the same 25  
thing, we have to know how many people have been tested 26

and how many were found positive. 27

Q. Let's go to the next page under 'Study Population'. 28

Under that heading, on p.1158, it sets out the group 29

that were studied and in the second paragraph it reads 30

'72 HIV1 infected Filipino -' must be commercial sex 31

workers '- were identified during this study. All 32

infections had been acquired through vaginal sexual 33

intercourse with heterosexual men. Intravenous drug use 34

was denied in all cases.' That's what it says there. 35

A. Yes. 36

Q. So to the authors of this report, based on the data 37

which they had - I mean, they conducted this study - 72 38

examples of vaginal sexual transmission of HIV. 1

A. But they qualify them, qualified that the woman denied 2  
having drugs. They denied, they don't say that the 3  
women didn't get drugs. The women denied having drugs. 4  
As I say, even if they didn't have drugs, if they had no 5  
HIV Filipino, not at all, not one, by then, if you test 6  
52 or over 50,000 people with antibody test, you are 7  
bound to find there one per cent infected - sorry, not 8  
infected, testing positive. The tests are not specific. 9  
No antibody is 100% specific. So I don't know why we 10  
spent so much time on this study. 11

Q. You're the one who relied on it in your PowerPoint. 12

A. This study shows that there is no sexual transmission, 13  
no proof of sexual transmission. 14

Q. So is your evidence to this court that this study shows 15  
that there is no sexual transmission of HIV. 16

A. No, sorry, we're not basing our - we go through all the 17  
studies we could find and this is - some of the studies, 18  
this is a cross-section of studies. Even in my 19  
presentation, your Honour, I said we agreed to a study, 20  
a cross-section of studies, and I gave in fact a slide 21  
what we mean by 'cross-section of studies', and I did 22  
say that from cross-section of study you cannot get 23  
reliable information. So we put this cross-section of 24  
study so that people will know that we went through 25  
them. We did study as much as we could to find out 26

what's going on. The only reliable studies, as Gallo 27  
said, are the prospective studies, and we discuss every 28  
single prospective study which has been published in 29  
heterosexual and the studies do not prove heterosexual 30  
transmission. They show that it is present with 31  
heterosexual transmission. This is the London study, 32  
this is the Padian study and this is the Da Vinci study. 33  
There is no evidence. 34

Q. Can we just go back to the question and the evidence 35  
that you just gave in this court a moment ago. Did you 36  
just tell this court that this study, the Filipino 37  
female commercial sex workers study, prove that HIV is 38

not sexually transmitted. 1

A. We do not have - the evidence does not prove sexual 2  
transmission. 3

Q. You went one step further than that in your answer, 4  
didn't you. You told this court that this study proves 5  
that HIV is not sexually transmitted. Those were your 6  
words. 7

OBJECTION: MR BORICK OBJECTS. 8

MR BORICK: I don't think the witness said these 9  
studies. 10

HIS HONOUR: She might have said something like that, 11  
but I didn't interpret her evidence as saying that. I 12  
think I interpreted her evidence, because I take the 13  
position that at times Ms Papadolulos's expression is 14  
not entirely, because of the language difficulty, that I 15  
took her evidence as being that this study does not 16  
establish that HIV is sexually - if it exists, is 17  
sexually transmitted because of the criticisms she has 18  
of it. She says it is 72 out of 50,000 and there can be 19  
explanations for that and, in her opinion, it doesn't 20  
establish the position. 21

MR BORICK: I am satisfied with that. 22

A. Thank you, your Honour, but even - 23

HIS HONOUR: Let's wait until the next question. 24  
Ms McDonald, I don't think the question was unfair, but 25  
I think that is how I have interpreted it. 26

MS MCDONALD: If that is how your Honour has 27  
interpreted it, I won't quarrel with that. 28  
XXN 29  
Q. Do you even concede that on one interpretation of this 30  
study, the author's own interpretation, that this 31  
supports that HIV can be sexually transmitted. 32  
A. It can support, it can support. I say why? In fact, 33  
that's what I was going to say, sorry, your Honour to 34  
interrupt. They say 'Natural History of HIV Infection 35  
in Filipino Female Commercial Sex Workers'. So they 36  
take it as granted that this study shows heterosexual 37  
transmission of HIV. I'm sorry, but this study cannot 38



be interpreted - I am repeating cannot - the evidence 1  
from this study cannot be interpreted as proof of 2  
heterosexual transmission of HIV. 3

Q. So the authors who actually conducted this study, 4  
developed it, watched it and report on it, have got it 5  
wrong in their interpretation. 6

A. I'm saying what is the data? The data shows that only 7  
.01% of women tested positive. With an antibody test, 8  
we would expect that so many tests - so many women to 9  
test positive, even if none of them is infected. 10

Q. This is in a country in which the HIV epidemic has only 11  
just begun. 12

A. I say that they interpret. You say that the HIV 13  
epidemic did not start, and yet they say that they 14  
prove, that this study proves heterosexual transmission, 15  
that's what the point is all about. On the one hand, 16  
you say that HIV epidemic didn't start by then in 17  
Filipino - in the Philippines and, on the other hand, 18  
you say that this study proves sexual transmission. I'm 19  
sorry, but this cannot be. 20

Q. Can we turn to the next study then in the sequence, the 21  
European study group, and there are a number of these. 22  
The first one is 1989, and that is referred to at slides 23  
28 and 29. Do you have that. 24

A. Sorry, the study. I'm looking at the slides. I can't 25  
find it, but doesn't matter, I know the study, so ask me 26

what you have to ask me. 27

Q. Do you have the PowerPoint presentation in front of you. 28

A. Yes, I do. 29

Q. What I'm directing your attention to are the two slides, 30  
28 and 29. Do you have those. 31

A. Yes. 32

Q. So you are there talking about a European study group. 33

A. Yes. 34

Q. The paper you relied on for this part of your 35  
presentation was a paper headed 'Risk Factors For Male 36  
to Female Transmission of HIV' by the European study. 37

A. Yes. Yes, please, go ahead. 38

Q. So that was a study you relied on for those two slides. 1

A. Yes. 2

EXHIBIT #P35 PAPER TITLED 'RISK FACTORS FOR MALE TO FEMALE 3  
TRANSMISSION OF HIV' DATED 18/2/1989, VOLUME 298 OF THE 4  
BRITISH MEDICAL JOURNAL, TENDERED BY MS MCDONALD. ADMITTED. 5  
6

Q. Do we take it from what you have extrapolated from that 7  
report and put into your two slides that your position 8  
is that this study supports your assertion that the only 9  
way that a person can become positive for HIV is through 10  
receptive anal sex. Is that the point of referring to 11  
it here. 12

A. That's what they say. 13

Q. Let's go to what they say then, shall we. P.1, first 14  
page, there was a particular objective in this study, 15  
wasn't there, and that was to identify risk factors for 16  
sexual transmission of HIV from infected men to their 17  
female partners; correct. 18

A. Yes. 19

Q. It was a cross-sectional study; risks were assessed by 20  
comparing couples in which transmission had occurred, 21  
the woman became infected, and those in which had not, 22  
woman not infected. Do you see that. 23

A. Yes. 24

Q. And with the participants, there was 153 males and 155 25  
female partners. Conclusion, at the bottom of that 26

column, 'The risk of sexual transmission of HIV from an 27  
infected man to his female partner varies considerably 28  
according to the characteristics of the couple. The 29  
differences in rates of transmission in high risk groups 30  
may be considerably reduced if the risk factors are 31  
taken into account during individual and public health 32  
counselling'. Now, that doesn't support your 33  
proposition that this article supports you in saying 34  
that anal sex is the only method of transmission. 35  
A. There is nothing here what you read me that says that 36  
the conclusion is not correct, our conclusion is not 37  
correct. Nothing here, can't see anything. This is 38

risk factor, determining what is the risk factors. 1

Q. What the authors are saying in their conclusion about 2  
all of this, this work they have conducted, they have 3  
been involved, is the risk of sexual transmission of HIV 4  
for an infected man to his female partner varies 5  
considerably according to the characteristics of the 6  
couple. 7

A. Yes, I agree with that, that's what it says, I agree. 8  
It don't say nothing about sexual acts, nothing. 9

Q. Let just go a bit further, next paragraph, 10  
'Introduction': 'In Africa the main route of 11  
transmission of HIV is by heterosexual contact'. 12

A. Yes, that's what it says, but they don't present the 13  
evidence. 14

Q. Again, they do. There is a reference there, No.1, and 15  
an article by Quinn and others, 'AIDS in Africa, an 16  
Epidemiological Paradigm'. They didn't just pull it out 17  
of the air. 18

A. That is not a prospective study. If it was a 19  
prospective study, all would have been reported on that. 20  
That is not a prospective study. 21

Q. Can I just ask you this general question - 22

A. Please let me have a look. 23

Q. I want to ask you a general question that is not related 24  
to the study. 25

A. Yes. 26

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E. PAPADOPULOS-ELEOPULOS XXN

Q. Are you listening to me. 1

A. Yes, I do. 2

Q. Do you accept the epidemiology has an important and 3  
valid role to play in science. 4

A. Epidemiology cannot prove or disprove anything. 5  
Epidemiology can only prove correlation but cannot give 6  
you scientific proof. 7

Q. Isn't it the case that as a scientist, you look at all 8  
the available evidence, you look at scientific studies, 9  
you look at epidemiology, you look at biology, virology, 10  
immunology and then, from the combined effect of all the 11  
information, you draw your conclusions. 12

A. You cannot have an epidemiological study of HIV if you 13  
have not got virological evidence for its existence. 14  
Professor Gallo would be the first one to tell you that 15  
you cannot prove the relationship between HIV and AIDS 16  
and claim scientific evidence or proof by 17  
epidemiological study. I think that is what it is in 18  
his statement. 19

Q. It is your evidence that studies that show that HIV 20  
strains have been traced between sexual partners, or 21  
found clustered together in a group who live together or 22  
have sexual contact, isn't valid legitimate information 23  
relevant to this issue. 24

A. No, no, that is not scientific proof. I am sorry, it is 25  
not. You can beg to differ. It is not proof. You 26

can't have scientific proof for HIV unless you have 27  
virological evidence for its existence. You can't have 28  
proof of this transmission, unless you have it first. 29  
It is as plain as that. Epidemiology cannot prove it. 30  
It can change you once you have HIV, it can give you an 31  
association, yes, I totally agree with you. You can 32  
start from there but, first, before you have to have the 33  
virus and epidemiological studies can be so biased that 34  
evidence from epidemiological depends how you design 35  
them, what answers you are going to get. That is why - 36  
and again Professor Gallo will agree on this - unless 37  
you have prospective studies, you can forget all the 38



cross-sectional studies. You can't have retrospective - 1  
you cannot have cross-section - you have to have 2  
prospective studies. 3

HIS HONOUR 4

Q. What do you mean by 'prospective' studies. 5

A. Prospective studies is, for example, like they have in 6  
the Dax studies, one of the best studies, 7  
epidemiological studies. In fact the study is so good, 8  
there was no need for any other epidemiological study 9  
anywhere in the world, that study in gay men. That 10  
study gives us everything we want to know. That means 11  
you get, in the Dax study, they started with 5,000 gay 12  
men and when the study started in 1984, they examined 13  
the gay men for diseases, people who are positive and 14  
people who are negative. They tried to find something 15  
to discriminate between the ones who are positive and 16  
the ones who are negative and then the study has been 17  
ongoing and you're trying to find out what are - for 18  
example, from the positive tests - what are the risk 19  
factors for acquiring a positive test and you follow the 20  
patients all the way and then you know the patients, you 21  
interview the patients every six or so - I don't know - 22  
they change the intervals and then you find out then 23  
what happened before. They tested the patient six 24  
months before and they tested them again six months 25  
after and they found some to test positive, so they 26

tried to find then what happened in the interval of 27  
time: what are the risk factors, what they are doing 28  
which may have led to this positive test. That is a 29  
prospective study - you follow the study. In 30  
cross-sectional studies, you go into a room here, you 31  
find - shall we say in a ballroom - five couples there 32  
and you test them on the spot and you find some of them 33  
will test positive and some will test negative and 34  
you'll find couples there where both partners will test 35  
positive. It is impossible to say who transmitted the 36  
virus to whom or if there was a third partner who 37  
transmitted it to both of them if HIV exists. That is 38

cross-sectional. Retrospective studies: you find some 1  
people - you have their blood, for example, and you test 2  
them 10 or 15 years after or five or two years after and 3  
then you go and ask them. You ask questions and try to 4  
work it out from there what happened. Epidemiology, as 5  
I said, Professor Gallo will be the first to admit that 6  
the longest study that you can get information from is 7  
the prospective studies. 8

XXN 9

Q. Going back to one of the studies that you have relied on 10  
and that is the one we have been looking at, the first 11  
of the European studies, 'Risk factors for male to 12  
female transmission of HIV', and I have taken you down 13  
to the bottom paragraph on the left-hand side heading 14  
'Introduction'. I read to you the first sentence about 15  
Africa, the main route of transmission is heterosexual 16  
contact. 17

A. Yes. 18

Q. The authors go on to say 'In Europe most cases of AIDS 19  
still occur between heterosexual men, nevertheless, the 20  
sharp increase in the number of cases of AIDS among 21  
European heterosexual intravenous drug users is a key 22  
link to the spread of HIV to the heterosexual population 23  
and to children, through transmission from their 24  
mothers'. They're saying that spreading to the 25  
heterosexual population, in Europe, that that is linked 26

with intravenous drug use and also it has been passed on 27  
to children, through transmission from their mothers. I 28  
take it you disagree with that last proposition. 29

A. I'm not disagreeing, I'm saying there is no evidence. 30  
The European studies, they have all done their best to 31  
prove heterosexual transmission. 32

Q. The authors go on to say 'Since 1983 both male to female 33  
and female to male transmission of HIV has been well 34  
described'. 'Well described', 'male to female' and 35  
'female to male' and they cite the study they rely on. 36

A. I am not saying they are lying, I am saying what is the 37  
evidence? Let me repeat what the European study has 38

shown. This is the cross-sectional part. They have 1  
also a prospective study. In that study they have shown 2  
that only four men were found to have acquired HIV from 3  
heterosexual sex and this was questioned by the 4  
Professor Dax and she wrote to JAMA and said 'This is 5  
not proof of heterosexual transmission'. You have so 6  
few cases of men. They could well have lied, that is 7  
sufficient to destroy all your evidence and she admitted 8  
that the European study does not prove heterosexual 9  
transmission. She admitted that there is no proof from 10  
the European study for heterosexual transmission but, 11  
she said 'Everywhere in the world they say it is 12  
heterosexually transmitted, so it must be'. Why are we 13  
wasting our time? It is in the European study, the same 14  
authors. They have admitted that the European study did 15  
not prove heterosexual transmission. It is not me, it 16  
is them. They have interpreted it that way. 17

Q. The bottom line of the study is this: the authors agree 18  
that anal intercourse - that is being the receptive 19  
partner in anal intercourse - increases the risk of 20  
someone then diagnosed as being HIV positive but nowhere 21  
does it suggest that that is the only way that HIV can 22  
be sexually transmitted. 23

A. Never did any other sexual - they said anal intercourse 24  
was the risk factor but they don't tell you if there was 25  
any other risk factors. 26

Q. They say that anal intercourse was the only sexual 27  
practice related to high rates of transmission. Of the 28  
women who engaged in anal intercourse, 52% were infected 29  
with HIV, versus 16% of those who then practised anal 30  
intercourse. There's a difference, but 16% of women who 31  
never practice anal intercourse, who were partnered with 32  
HIV positive men, were diagnosed as being positive. 33

A. But they did not tell you, as I said, that this woman 34  
may not have any other - and this is the cross-sectional 35  
study. They did not tell you if there is no other 36  
risks. This is a cross-sectional study. In the 37  
prospective study, that is only the standard which we 38

can accept the evidence and there - I cannot repeat it - 1  
they conclude, she accepted that they don't have proof 2  
for heterosexual transmission. It is not my 3  
interpretation, it is not our interpretation, it is not 4  
a group interpretation, it is her interpretation. 5

Q. Let's go back and look at what the authors had to say 6  
about what they did, in terms of excluding other risk 7  
groups and it comes under the heading of 'Patients and 8  
methods'. On the first page, the front cover, headed 9  
'Patients and methods' on the right-hand side, and I 10  
want to go to the second paragraph beginning with the 11  
words 'participants'; do you see that. 12

A. Yes. 13

Q. They go on to explain what they did, don't they. 14  
'Participants are interviewed individually on entry to 15  
the study and contact partners, negative HIV antibody, 16  
are followed up every six months. In most cases 17  
described here, 130 out of 155, both partners were 18  
interviewed on the same day. To ensure consistency, the 19  
number of interviewers is limited to one or two in each 20  
centre. Subjects are questioned about risk factors for 21  
HIV infection, history of sexually transmitted disease 22  
in the previous five years and number of sexual partners 23  
for various periods', and it gives some examples: 24  
'lifetime' and 'five years' and so on. 'Contraceptive 25  
behaviour (including the use of condoms) and sexual 26

practices before and after diagnosis of HIV infection in 27  
the index patient are also investigated, current HIV 28  
antibody sustained is determined by enzyme-linked 29  
immunosorbent assay - ELISA and confirmed by Western 30  
blotting - or radioimmuno precipitation in the 31  
laboratories of the participating symptoms'. Do you 32  
agree that that is part of how they describe how this 33  
study was approached. 34

A. Yes. 35

36

37

38



A. Yes. 1

Q. I'm just going to jump ahead - if you think that there 2  
is anything that we need to refer to in the passage in 3  
between - to the word May. 'By May, 224 couples had 4  
been involved (161 male index patients with their 163 5  
female partners). An index patient of two partners was 6  
considered to be two independent couples. Eight women 7  
who had a risk factor of HIV infection other than sexual 8  
contact with the index patient were excluded. Seven of 9  
these women had used intravenous drugs in the previous 10  
five years and one reported a previous regular 11  
heterosexual partner that originated from South Africa'. 12  
The people who had another risk factor like intravenous 13  
drug use, sexual relations with a West African, did not 14  
form part of the study. 15

A. The ones which omitted this is a cross-sectional study. 16  
I cannot - I cannot repeat - again this is - the input 17  
here is on their cross-sectional study. When they 18  
reported in 1994 on their prospective study - and that 19  
is the study which they summarised all their evidence 20  
and which is the most reliable - that is the study which 21  
you should address. 22

Q. Let's go back to what you told this court. A moment ago 23  
you were telling us that the explanation for the 16% of 24  
women who became HIV positive was that the - 25

A. How many women were there, sorry? 26

Q. Would you just let me finish the question. 27

A. You do. 28

Q. A moment ago you told this court that the reason that we 29  
couldn't rely on the 16% of women who become HIV 30  
positive, 17 out of 107, who never practised anal 31  
intercourse, because the authors of the report had not 32  
excluded people with the risk factors. You have now 33  
changed your position on that. Are you now saying that 34  
'those people were excluded so I guess they must be 35  
lying, those 16%'. 36

A. It was a conclusion - I don't know, I did not study 37  
this, they concluded that it was anal intercourse and it 38

was a risk factor, it was not my conclusion. 1

Q. Is your response now, having been alerted to the fact 2  
that, in fact, people of other risk factors were 3  
excluded, that the 16% must be accounted for by people 4  
like - 5

A. You have to count it by some other way including that 6  
they may have lied. There are many women who don't 7  
admit not only to drug use but they don't admit to 8  
practising anal intercourse, so I don't know. 9

Q. You just put to the court - 10

A. But the words, themselves, say it is anal intercourse, 11  
not me. 12

Q. You just put to this court - I'm talking about that 16%, 13  
you have to account for it in some other way. Isn't the 14  
fact of the matter that 16% of people are telling the 15  
truth of never having practised anal intercourse and 16  
they were given HIV, through vaginal intercourse, 17  
through their partners. 18

A. No, they - they don't claim to have that evidence. They 19  
don't claim to have that evidence. As I said, Di 20  
Vincenzi admitted that they have not got proof for 21  
heterosexual transmission. The study did not prove 22  
heterosexual transmission. 23

HIS HONOUR 24

Q. If I refer to your slide No.36 and I assume that's the 25  
one that you are referring to, Di Vicenzi, where they 26

agree with Dr Brody. 27

A. Yes. 28

Q. Is that the one that you are referring to. 29

A. Yes your Honour, yes. 30

Q. They agree that their perspective analysis lacks power 31  
showing risk associated with anal intercourse and then 32  
they go on to say 'Indeed, we found such an association 33  
in the cross-sectional analysis'. 34

A. Yes, which is the study that we are talking about now, 35  
1998. However - 36

Q. Yes, I understand. 37

A. It is their conclusion. She agrees with Brody and 38

Brody, may I add your Honour, is one of the people who 1  
has studied, extensively, heterosexual transmission and 2  
he has written books. He has published many papers and, 3  
in fact, last year or the year before, he and his 4  
colleagues presented evidence to the United Nations that 5  
there is no proof that the epidemic in Africa is caused 6  
by heterosexual transmission of HIV. 7

XXN 8

Q. Just one other final topic arising from this study. We 9  
have not really dealt with this particular topic for 10  
long. It is your evidence that in terms of a person 11  
being diagnosed as being HIV positive, through receptive 12  
anal intercourse, one of the risk factors is the 13  
frequency of the receptive anal intercourse. 14

A. Yes. In fact, it is the frequency, the most - one of 15  
the most important factors apart from practising anal 16  
intercourse, the frequency is important. 17

Q. Isn't it the case that it is also widely accepted by HIV 18  
experts that the state of a person's condition, that is, 19  
the state of the person who is HIV positive, may impact 20  
on whether or not they are likely to transmit the virus 21  
to another. 22

A. There is no study, there are no studies which prove it. 23  
There are studies that claim that, but no studies to 24  
claim that. However, I think by logical reasoning, to 25  
use the words 'the HIV expert', may suggest that, 26

because the semen - and we have evidence of that - the 27  
semen of AIDS patients is much more oxidised than of a 28  
healthy person and because it is oxidised, the proteins 29  
are changed and these proteins, when they are absorbed 30  
into the body, the probability exists. It will cause 31  
more anti-bodies than another semen from a healthy 32  
person, so yes it is possible, it is possible, I don't 33  
know if there is evidence or proof. We could not find 34  
any proof but it is possible. 35

Q. So you say - 36

A. Sorry. That to have - there will be a higher 37  
probability for being positive but not because of HIV. 38

Q. What do you mean when you say 'a person with HIV has semen that is more oxidised'; what do you mean by that phrase, 'more oxidised'. 1 2 3

A. All the - oxidisation means lack of electrons, that's what oxidisation means. 4 5

Q. That's how you are using that word. 6

A. Lack of electrons or addition of oxygen, that's the definition of oxidisation. One moment please, we predicted - I predicted, before there was any evidence, that all the tissues of AIDS patients will be oxidised. In fact, I said exactly how the oxidisation can be determined and I said the S age groups, the thyo groups in AIDS patients will be oxidised in all tissues and that has been proven repeatedly by German researchers and even better by the Hamsonbelts, the husband and wife team at Stanford University. Their studies are incredibly well-conducted and the design, interpretation and instituted - and they found out exactly what I predicted. In fact, I also predicted that if these patients are given anti-oxidants, like compounds which are excessive electrons - what I use as anti-oxidants, but I gave exactly what I mean by anti-oxidants. I don't mean by 'anti-oxidants' vitamin E or C, you know. Compounds which are reached in S age groups and that's what has happened. The Stanford University and the authors find out that if you give anti-oxidants, in fact 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

assisting the progression, weight is inhibited. That's 27  
what I mean by oxidisation. 28

Q. So is your evidence this: that males who are diagnosed 29  
with HIV positive have more oxidised semen and something 30  
about the fact that their semen is not oxidised means 31  
that whether that ends up in someone's anus, that 32  
triggers some anti-bodies that causes that second person 33  
to also test positive to HIV. 34

A. Now what I said is that this may trigger, this may 35  
release - how probable semen will be to a positive test 36  
but a semen from a normal - from an AIDS patient may - I 37  
didn't say 'I have evidence', I said 'may' lead to a 38



higher frequency of a positive test. I have no 1  
evidence, biological probability. As I say, to use the 2  
words that the HIV expert uses 'may', I did not say 'we 3  
have evidence'. 4

Q. Before I move on to the next topic let me take you to 5  
p.413, the one that you have in front of you, the 1989 6  
study, the column on the right-hand side towards the 7  
bottom, the heading 'Discussion'. 8

A. Yes. 9

Q. Do you have that. There the authors report, don't they, 10  
that: 'Men with full-blown AIDS seem to be more 11  
effective than carriers without symptoms, a long 12  
relationship (and therefore a long exposure to the risk 13  
of transmission) may be a compounding factor. The 14  
clinical state of the carrier remains a risk factor 15  
regardless of the duration of the relationship and the 16  
frequency of the sexual contact'. That's what the 17  
authors say. 18

A. Exactly that's what I say. 19

Q. They say that there is a correlation between the state 20  
of the carrier's condition, namely, whether he is 21  
asymptomatic or he has full-blown AIDS and the 22  
likelihood that HIV will be passed on to the recipient. 23

A. That's what I said, that's what I been saying. 24

Q. So may we agree on this, that's one point. 25

A. We agree on some points, but we did agree that the cause 26

is the HIV. 27

Q. Do you agree that a person's viral load is an indicator 28  
of how likely it is that a person they are having sexual 29  
intercourse with will test positive with HIV. 30

A. That's not proof of that. One - just a second - just a 31  
second - when you say 'viral load' and a person hears 32  
you saying this, the first thing anyone who thinks - who 33  
doesn't know about HIV, and all that is meant by viral 34  
load, they will think viral load will tell you that this 35  
person - they are measuring the number - viral load 36  
measures the number of HIV particles in the blood. 37  
38

They, the higher the viral load, the more HIV particles 1  
in the blood. That is what anyone will think. Well 2  
this is not. This is not true. In fact, the HIV expert 3  
say that you cannot - the viral load cannot be used to 4  
prove HIV infection and the person who invented 5  
polymerase chain reaction, and which is used to measure 6  
the viral load, says that the viral load is an oxymoron. 7

A. So whatever - as I said, I think I have another paper 8  
here from one of the latest papers published in science 9  
journal where they say 'whatever viral load means'. 10  
Whatever viral load means: nobody knows what viral load 11  
means. So we are measuring something and we don't know 12  
what it means - what it means. 13

MR BORICK: The witness mentioned the person who 14  
invented PCR and didn't give the name of the person. 15  
Could that be on the transcript. 16

A. Yes, I mentioned Mullis, Carly. 17

XXN 18

Q. Let us move on. The next European study group you 19  
relied on, that is the one from 1992, referred to in 20  
slide 30 in your Power.point presentation, have you 21  
relied on an article entitled 'Comparison of female to 22  
male and male to female transmission of HIV in 563 23  
stable couples'. 24

A. Yes, that is the slide, yes. 25

EXHIBIT #P36 STUDY ENTITLED 'COMPARISON OF FEMALE TO MALE 26

AND MALE TO FEMALE TRANSMISSION OF HIV IN 563 STABLE 27  
COUPLES' PUBLISHED IN THE BRITISH MEDICAL JOURNAL 28  
28/03/1992, VOL.304, TENDERED BY MS MCDONALD. ADMITTED. 29  
30  
A. 1992? 31  
HIS HONOUR 32  
Q. 28 March 1992. 33  
A. Yes. 34  
XXN 35  
Q. Let me remind you what you told us about this study in 36  
your evidence. P.162, line 16, you are referring to 37  
that slide headed 'European study group 1992'. 'Now 38

this is again a European, a continuation of the Europe 1  
study. This time they had 151 and 388 female partners. 2  
Most of the cases were I drug users which, according to 3  
Nancy Padian, their partners may have been also drug 4  
users but they are not admitting it. Now 12% of the 5  
male partners were found to or were reported to be 6  
infected, likely to have a positive test and they said 7  
this meant they had a risk factor other than 8  
heterosexual contact but just because' - I think it is 9  
meant to be - it reads at the moment 'now 12% of the 10  
male partners were found to or reported to be infected, 11  
likely to have a positive test and they said this meant 12  
they had a risk factor other than heterosexual contact.' 13  
I pause there. I think that might be a mistake. I 14  
think what you told the court is that the authors said 15  
they had no risk factor other than heterosexual contact 16  
because you went on to say 'but just because they deny, 17  
doesn't mean it did not happen and 20% of the male 18  
partners were reported as infected and again, anal sex 19  
was the only sexual act which was a risk factor'. You 20  
agree that was your evidence. 21

A. Yes, I do. 22

Q. Let us go to what this study actually says then. The 23  
objective was 'To identify risk factors for heterosexual 24  
transmission of HIV and to compare the efficiency of 25  
male to female and female to male transmission'. That 26

was the purpose. 27

A. Yes. 28

Q. Was a cohort study of heterosexual couples in which one 29  
person was HIV positive. Then it sets out the subjects, 30  
563 couples, 156 female index patients, and so on. I 31  
won't take you through all those details, you can read 32  
it there. The 'conclusion' is over in the next column: 33  
'Several factors which potentiate the risk of 34  
transmission through unprotected vaginal intercourse 35  
have been identified. Knowledge of these factors could 36  
be helpful for counselling patients infected with HIV 37  
and their sexual partners'. So, firstly, you agree that 38

is what the conclusion is in this report. 1

A. Yes, yes. 2

Q. So the actual conclusion of the authors of this report 3  
who conducted this study is that there are several 4  
factors which potentiate the risk of transmission 5  
through unprotected vaginal intercourse. 6

A. There are several factors which potentiate - 7  
transmission through vaginal intercourse, that is all 8  
they say. But, first of all, you have to have proof for 9  
transmission by vaginal intercourse. 10

Q. But we look at the whole sentence and not just part of 11  
the sentence but all of what they say there. They are 12  
saying that in their view HIV is transmitted through 13  
vaginal intercourse and there are some other factors 14  
that may impact on whether that will occur. 15

A. Where is the evidence? 16

Q. Let us go to what they say. 17

A. Where is the evidence? Will you please tell me in this 18  
study, cross-sectional study - this is a cross-sectional 19  
study and please give me in this cross-sectional study 20  
where they had evidence for vaginal transmission. 21

Q. It was you who relied on this article before this court 22  
to support your theory that it isn't vaginally sexually 23  
transmitted. 24

A. I am asking you to give me the evidence. 25

Q. Let us go through the study. 26

A. Yes please. 27

Q. 'Introduction', the heading following on from 28

'Conclusions': 'Several studies have examined the risk 29

of sexual transmission of HIV from infected men to their 30

female partners. HIV prevalence amongst female partners 31

of infected men ranges from 15% to 30% in most studies 32

from Europe and the United States.' So there are seven 33

different references there in support of that 34

proposition, HIV prevalence amongst female partners of 35

infected men ranges from 15 to 30%. That is what the 36

authors say there, isn't it. 'In addition, to 37

unprotected vaginal intercourse and sex'. 38



HIS HONOUR: Unprotected vaginal intercourse anal sex. 1

XXN 2

Q. I will start that again in fairness. 'In addition to 3  
unprotected vaginal intercourse anal sex and advanced 4  
clinical or immunological stage of HIV infection in men 5  
have been shown to significantly increase the risk of 6  
transmission'. So they are identifying a number of risk 7  
factors there, anal sex, you would agree, but also 8  
unprotected vaginal intercourse and the state of the 9  
partner's infection. 10

A. That is what they say. They - that is in their 11  
introduction. They don't - here they don't say that 12  
they have proved that. This is an introduction. 13

Q. Let us keep going, come to what they actually found in a 14  
moment. The bottom paragraph goes on to say 'We present 15  
the results of a European multicentre study, the aims of 16  
which are to measure the risk of and identify the risk 17  
factors for heterosexual transmission, to compare the 18  
relative efficiency of male to female and female to male 19  
transmission and to assess the effectiveness of 20  
counselling safer sex through the prospective follow-up 21  
of couples'. So the focus is to compare the risk, the 22  
man passing it to a women as compared to woman passing 23  
it to a man, do you agree that is what they say. 24

A. Yes. 25

Q. Let us go to the results over the page, p.810, the 26

column on the right-hand side under the heading 27  
'Results'. 'By March 1991 a total of 563 couples had 28  
been enrolled. There are 156 female cases with 159 male 29  
contacts and 400 male index cases with 404 female 30  
contacts. At recruitment 16 male and 75 female contacts 31  
were found to be HIV positive. In addition 32  
seroconversions occurred in three males and seven female 33  
contacts after enrolment in this study'. Do you agree 34  
it says that there. 35  
A. Yes. 36  
Q. So some of the female contacts were being diagnosed as 37  
HIV positive and some of the male ones were too. 38

A. Sorry, what is - index cases were injected drug users - 1  
I am reading - 2

HIS HONOUR: We haven't got to that. 3

A. Sorry. 4

XXN 5

Q. I will take to you that passage. 'Most of the index 6  
cases were injecting drug users or former drug users'. 7  
Firstly, what do you understand by the phrase 'index 8  
cases'. 9

A. Index cases are the men which were found - the partners 10  
which were found to be positive when they enrolled in 11  
the study. They are the index cases. So most of the 12  
people who are found to be positive when enrolled in the 13  
study were drug users or former drug users. 14

Q. That is of the index cases, that's not in relation to 15  
the people who contracted the virus. Those are the 16  
people who had a pre-existing HIV diagnosis. 17

A. They were the people who had - when they enrol in the 18  
study, already positive. 19

Q. Let us look at what happened to those people who whether 20  
not HIV positive that were having sexual relations with 21  
someone who was. Over the page, p.811, right-hand 22  
column, the heading is 'Efficiency of male to female and 23  
female to male transmission'. Do you have that. 24

A. We have male transmission. 25

Q. Do you have that heading that I am referring you to, 26

male to female transmission	27
HIS HONOUR: P.811. Male to Female transmission.	28
MS MCDONALD: The paragraph that summarises efficiency	29
of male to female and female to male transmission.	30
HIS HONOUR	31
Q. See the heading 'efficiency'.	32
A. Yes, yes.	33
XXN	34
Q. Let us look at what they actually found: '82 of the 404	35
female contacts were found to be infected with HIV	36
representing a crude transmission rate of 20% (16-24%)	37
compared with a crude rate of female to male	38

transmission of 12% (19 out of 159; 7% to 17%) male to 1  
female transmission was twice as efficient (odd ratio 2  
1.9) (1.1 to 3.3)'. 3

HIS HONOUR: Odds ratio, not odd ratio. 4

CONTINUED 5

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E. PAPADOPULOS-ELEOPULOS XXN

XXN 1

Q. So there we have it. Out of that study group, 12% of 2  
the HIV positive females transmitted the HIV to the 3  
males. 4

A. Yes. This is the cross-sectional study. In the 5  
cross-sectional study, let's look at the cross-sectional 6  
study. I am repeating it. 7

HIS HONOUR: I think the figure was 12% of the males 8  
who had contact with the females were found to be HIV 9  
positive. I think you put it around the other way, 12% 10  
females. 11

MS MCDONALD: Sorry, yes, I'm a bit fatigued. 12

MR BORICK: I think that is a fact of this case at 13  
the moment. There is a bit of fatigue setting in all 14  
around. I'm inclined to think it is time to stop. 15

MS MCDONALD: I will just clear up that last answer so 16  
I don't have to go back there tomorrow. 17

XXN 18

Q. Just so you are not under any misapprehension, what I am 19  
putting to you is that this study showed that there was 20  
a transmission rate from female to male of 12%. 21

A. Now, this study shows it is a cross-sectional study, 22  
one. Secondly, the indexed partners are drug users, 23  
which, according to Padian, the non-indexed partners may 24  
very well also be drug users. The probability is very 25  
high. Padian said this, not me. There is a high 26

probability that the non-index partners are also drug 27  
users. So there are two programs. There is the 28  
cross-sectional studies and the index partners are drug 29  
users. They are a problem. 30

ADJOURNED 5.02 P.M. TO WEDNESDAY, 31 JANUARY 2007 AT 10 A.M. 31

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