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**IN THE COMPETITION**  
**APPEAL TRIBUNAL**

Case Nos. 1275/1/12/17  
1276/1/12/17

Victoria House,  
Bloomsbury Place,  
London WC1A 2EB

13th November 2017

Before:

**PETER FREEMAN CBE QC (Hon)**  
(Chairman)  
**PAUL LOMAS**  
**PROFESSOR MICHAEL WATERSON**

(Sitting as a Tribunal in England and Wales)

BETWEEN:

**FLYNN PHARMA LTD AND FLYNN PHARMA (HOLDINGS) LTD** Appellant

- and -

**COMPETITION AND MARKETS AUTHORITY** Respondent

- and -

**PFIZER INC. AND PFIZER LIMITED** Appellant

- and -

**COMPETITION AND MARKETS AUTHORITY** Respondent

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*Official Court Reporters and Audio Transcribers*  
*5 New Street Square, London EC4A 3BF*  
*Tel: 020 7831 5627 Fax: 020 7831 7737*  
*civil@opus2.digital*

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**HEARING – Day 8**

## **A P P E A R A N C E S**

Kelyn Bacon QC, Ronit Kreisberger and Tom Pascoe (instructed by Macfarlanes LLP)

Mark Brealey QC, Robert O'Donoghue QC and Tim Johnston (instructed by Clifford Chance LLP)

Mark Hoskins QC, David Bailey, Hugo Leith and Jennifer MacLeod (instructed by CMA)

Monday, 13 November 2017

(10.30 am)

THE CHAIRMAN: Good morning. Any reflections over the weekend?

MS BACON: Good morning. Yes, we have reflected. We have I think one thing to hand up. There have been a couple of additions to the bundles, which I do not think I need to trouble you with. There is a letter that has gone to the tribunal this morning.

During the course of preparing for the cross-examination of Mr Harman, I queried one figure in one of the appendices to Mr Williams' second report and unravelling that led to us discovering there were a few typographical errors, and they really are typos. For example, a number has been transcribed wrongly in a number of cases.

THE CHAIRMAN: You can change a lot with a typo.

MS BACON: Yes. As it happens it changes in our favour, if anything. What we have done is to set that out in a letter to the tribunal and we have done a revised version of the appendix 3. I will hand that up now. My learned friend obviously has not had a chance to look at it, so what I would propose is if he has anything he wants to say about it, or indeed if Mr Harman wants to say something about it, they can do so tomorrow morning,

1           and we will start off with that then.

2           THE CHAIRMAN: (Handed) So be it.

3           MS BACON: Mr Brealey wants to make a different point.

4           MR BREALEY: It is a small point but not an unimportant  
5           point.

6           THE CHAIRMAN: I would not imagine you would make an  
7           unimportant point, Mr Brealey.

8           MR BREALEY: I should draw the tribunal's attention to the  
9           fact that the head of the CMA, Mr Coscelli, gave  
10          an interview on Friday, which was clearly intended to be  
11          reported, which comments on the ongoing case. This was  
12          in the MLex article. I do not know whether the tribunal  
13          saw it?

14          THE CHAIRMAN: I try not to read anything like that.

15          MR BREALEY: I will not say much more about it, but in my  
16          respectful submission it was quite inappropriate. It  
17          does comment on the ongoing case, it talks about the  
18          implications of the evidence-gathering exercise, and if  
19          the tribunal has not read it I would ask the tribunal  
20          not to read it, because it appeared to us, and quite  
21          genuinely I believe, to be an unsubtle attempt to put  
22          subtle pressure on the tribunal, and I would ask in this  
23          forum that the CMA try not to give interviews to the  
24          press commenting on the current evidence and state of  
25          play of the appeal.

1           As the tribunal may know, the Attorney General in  
2           September of this year launched an inquiry into the  
3           extent to which social media should comment on ongoing  
4           criminal trials, so it is not a minor matter. The  
5           fundamental point is the tribunal should hear the  
6           evidence and submissions in this tribunal, in this  
7           forum, and the CMA should not be making submissions  
8           outside the forum trying to influence the tribunal.

9           I say no more about it if the tribunal has not read  
10          it, but I felt I should put a marker down because again,  
11          in my respectful submission, it was quite inappropriate  
12          to conduct such an interview which was obviously going  
13          to be reported.

14        THE CHAIRMAN: Mr Hoskins, do you have anything to say?

15        MR HOSKINS: I know nothing about the article either so I do  
16          not have anything to say, and I have no instructions on  
17          it, it is the first time I have heard about it. But if  
18          you need me --

19        THE CHAIRMAN: If you do obtain instructions and have  
20          anything to tell us, then perhaps you would in the  
21          course of the remaining part of the hearing.

22          I have to say, we are not approaching this case in  
23          any kind of political regulatory context, we are  
24          simply hearing the evidence and we will decide the  
25          case on the evidence. We cannot do any more than give

1           you that assurance. As a matter of fact, I have not  
2           myself either been aware of or read that.

3           MR BREALEY: I know MLex does get disseminated quite widely in the  
4           competition sphere. I say no more, it is just that we  
5           did find it quite inappropriate.

6           THE CHAIRMAN: Right. Are we now free to proceed?

7           MR HOSKINS: I call Mr Harman, then, please.

8                                 MR GREG HARMAN (sworn)

9           THE CHAIRMAN: Please take a seat, Mr Harman. Your counsel  
10          will put some points to you, I think.

11                                Examination-in-chief by MR HOSKINS

12          MR HOSKINS: Could you be give bundle F, please. At tab 1  
13          is a document, "Report of Greg Harman"?

14          A. Yes.

15          Q. Can you just flick through the pages to the signature  
16          page which is the very last one and confirm that that is  
17          your first report?

18          A. Yes, it is.

19          Q. And that is your signature?

20          A. It is indeed.

21          Q. Then tab 3 of this bundle, "Supplementary Report of  
22          Greg Harman"?

23          A. Yes.

24          Q. Just do the same, please look through the pages, and the  
25          signature this time is on page 55?

1 A. Yes.

2 Q. Please could you confirm that that is your supplementary  
3 report?

4 A. It is.

5 Q. And can you confirm that is your signature?

6 A. It is.

7 Q. Then tab 5, can you confirm that is a joint statement  
8 you made with Mr Williams?

9 A. It is.

10 Q. Can you confirm that the facts set out in these  
11 documents are true to the best of your information,  
12 knowledge and belief?

13 A. Indeed.

14 Q. Can you confirm --

15 A. Caveating the one point that apparently there is  
16 an error somewhere but I obviously do not know what that  
17 error is.

18 Q. Is there something you want to say about that?

19 A. No, I thought I heard Ms Bacon saying --

20 MS BACON: That was in Mr Williams'.

21 A. My apologies, then yes.

22 THE CHAIRMAN: You take more burdens on yourself than you  
23 need to.

24 MR HOSKINS: And can you confirm that the views set out in  
25 these documents represent your independent expert

1 opinion?

2 A. They do.

3 MR HOSKINS: There will be some questions.

4 Cross-examination by MS BACON

5 MS BACON: Sir, just to explain how I propose to structure  
6 the cross-examination to assist you and Mr Harman. I am  
7 going to broadly follow the structure of our skeleton  
8 argument, so I am going to start with some general  
9 questions, I am then going to look at the ROS benchmark  
10 followed by cost allocation, before finishing up with  
11 some questions about gross profit and product  
12 contribution measures.

13 If it would assist the tribunal, because I know  
14 there is quite a lot of ground to cover, I could pause  
15 at the end of each big section to allow time for the  
16 tribunal's questions or we could leave it all to the end.

17 THE CHAIRMAN: I think we will do questions as we go along.

18 MS BACON: I am aiming not to go into camera. I have gone  
19 through my notes and I have tried to ensure nothing I am  
20 saying is confidential, and I have confirmation from  
21 behind me that that is the case. We will obviously need  
22 to try and ensure that no one else reads out  
23 a confidential figure, so I will remind Mr Harman at  
24 appropriate times when we are looking at confidential  
25 material.

1           There is a lot of ground to cover, we are going to  
2 go into tomorrow. In fact I anticipate that between me  
3 and Mr Brealey we are going to need the full two days.  
4 If it looks as if I am making very good progress by  
5 mid-afternoon, and mindful that it is going to be a long  
6 two days for the witness, I might, with the tribunal's  
7 permission, suggest we rise early, but we might not have  
8 that luxury depending on how far I have got through my  
9 notes.

10 THE CHAIRMAN: I think we will take it as it comes.

11 MS BACON: Thank you.

12           So can I start with some general questions,  
13 Mr Harman, about the scope of your instructions. Could  
14 you take up your reports. Just to say, I am going to  
15 refer almost exclusively to your evidence and bundle D  
16 which has the evidence of the Flynn witnesses. So if  
17 you could have those two open in front of you the whole  
18 time, do not put either of them away. Occasionally I am  
19 going to need to look at something else but only a couple of  
20 time.

21           So could you turn to your first report and look at  
22 paragraph 2.1. You set out here the scope of your  
23 instructions from the CMA. You say that they asked you  
24 to consider two issues, one, cost allocation and, two,  
25 the reasonable rate of return.

1           Is it correct to say that both of those related to  
2           the CMA's cost plus or ROS analysis?

3           A. Yes, that is correct.

4           Q. Just flicking back a page, you explain at paragraph 1.14  
5           that your instructions were not to consider from first  
6           principles how the CMA should approach the excessive  
7           price for this product, or indeed any product. So  
8           am I correct in thinking that the CMA did not ask you to  
9           consider from first principles whether doing a cost plus  
10          or ROS analysis was the right way to measure excessive  
11          price, but rather what it asked you to do was to give  
12          your opinion on these two specific disputed points in  
13          their analysis?

14          A. That is correct.

15          Q. So if you go back to 2.10 in your report, and you are  
16          talking here about the reasonable rate of return. In  
17          that paragraph you break the point down into two  
18          separate questions. So firstly, whether it is  
19          appropriate to use the ROS measure to determine  
20          a reasonable rate of return, and secondly, whether the  
21          6 per cent benchmark was reasonable.

22                 Just looking at the first of those two points, so  
23                 whether it is appropriate to use the ROS measure to  
24                 determine a reasonable rate of return, I just wanted to  
25                 ask you some questions about how you did that

1           conceptually.

2           A. Yes.

3           Q. For the purpose of this exercise and that particular  
4           question, did you do any research into the generic  
5           pharmaceutical industry to see how companies measure  
6           profitability typically and what their normal rates of  
7           profitability are?

8           A. No, no, I did not. If I can just caveat what I did --

9           Q. I was going to ask you about what you did. Can I come  
10          to that? So can I take you to what you have done,  
11          because you set it out in your report, to see if  
12          I correctly understood it. Could you look at the next  
13          paragraph, 2.11 and 2.12. That seemed to me to be your  
14          conceptual framework, and you say there that ROS is  
15          a function of the level of investment, the level of risk  
16          and the level of revenue, and you ask in each case what  
17          the required ROS is from an investor perspective. Is  
18          that a summary of your conceptual framework?

19          A. Yes. Just to give it its full context, there is a very  
20          well-established theory for setting a required rate of  
21          return in competition analysis, in valuation practice  
22          and within competition analysis, and that is normally  
23          applied to industries that have a big capital base, and  
24          that is the weight of average cost of capital multiplied  
25          by the amount of investment, and that kind of principle

1 is fundamental to finance theory and it permeates pretty  
2 much everything we do in terms of regulation, valuation  
3 and assessments of reasonable returns in competition  
4 assessments.

5 The problem with this case is that it is  
6 an asset-light industry and that formulation may not be  
7 appropriate. I say "may" because in certain  
8 circumstances it still may be appropriate. So one has  
9 to derive from first principles how do you come up with  
10 a benchmark? And there is a clear theoretical link  
11 between the approach that I have just said and a rate of  
12 return on sales approach.

13 That basic formulation permeates pretty much  
14 everything that I do. I go back to that basic  
15 formulation and say for an industry, or for a product  
16 like Phenytoin for Pfizer and for Flynn, how does  
17 a reasonable rate of return stack up against that  
18 conceptual framework?

19 Q. Thank you. And I was just going to take you to where  
20 you explain that in more detail in your report. The  
21 section is then at 4.5 onwards which is headed  
22 "Conceptual Framework". So this is where you explain  
23 the point you have just made to the tribunal in more  
24 detail. You have looked at the ROCE and WACC analysis,  
25 I will come back to that, so I am going to look at that

1           during the course of I hope this morning. But if you go  
2           to 4.13.

3           A. Yes.

4           Q. You say that a ROS benchmark is anchored in the same  
5           conceptual framework as the ROCE methodology, so  
6           companies are compensated for the risk associated with  
7           the investments they make. So would it be right to  
8           summarise very shortly what you have done in this  
9           way: in order to answer the first of the questions that  
10          you put in paragraph 2.10, as an economist you have  
11          looked at what a ROS measure does conceptually and you  
12          have tested that against your conceptual framework that  
13          you have set out?

14          A. Correct. I basically conclude that a ROS framework can  
15          be manipulated into a conceptual framework that has  
16          economic meaning.

17          Q. Looking at your paragraph 4.13, you say:

18                 "The right conceptual framework in this case is to  
19                 look at the level of return that is required for the  
20                 risk and investment that is present for  
21                 Phenytoin."

22          A. Correct.

23          Q. And you have just explained to the tribunal, and you say  
24          in paragraph 4.15, that this is the fundamental basis of  
25          your assessment in this case. So am I right in

1 summarising it this way: your approach to looking at  
2 whether the ROS measure used by the CMA was reasonable  
3 was to ask whether it was to a level that you, as  
4 an economist or finance theorist, considered to be  
5 required in light of the level of risk and investment  
6 for Phenytoin?

7 A. Yes. Let me just step back, just to give that some  
8 context. The starting place goes to what is  
9 a reasonable return and that is a reasonable question.  
10 The OFT some time ago indicated that a reasonable return  
11 for a competition assessment is what you would expect in  
12 a normally competitive market, not a perfectly  
13 competitive market but a competitive marketplace, and  
14 they conclude that the weighted average cost of capital  
15 is an appropriate methodology to calculate a return for  
16 the first step of United Brands. So I have incorporated  
17 that into a framework.

18 I think that on page 39 at 4.12, the formula at D,  
19 I basically say that the return on sales as a percentage  
20 is equivalent to a reasonable return by reference to  
21 "the cost of capital", multiplied by capital employed,  
22 ie the level of investment, and your revenue. And three  
23 things come out of that which I think are important, and  
24 this holds true for any industry, including  
25 pharmaceuticals. There are some general tenets, if you

1           like. The higher the risk, the higher your cost of  
2           capital, and therefore the higher your return on sales  
3           as a percentage needs to be. It just follows from this  
4           formula. The more investment that you make, it follows  
5           that you also will have a higher return on sales as a  
6           percentage. But also the higher the revenue, the lower  
7           the return on sales. And it is just this formula  
8           manipulated. And I think between the experts, where the  
9           common cause of that that is a sensible foundation or --

10          Q. I am not entirely sure that that is the case but we will  
11          look at that during the course of today.

12                 Can you take up the decision and look at  
13          paragraphs 5.210 and 5.212.

14          A. Sorry, which ...?

15          Q. The decision.

16          A. Which is ...?

17          Q. Sorry?

18          A. I do not have that. (Handed)

19                 Thank you. Which paragraphs?

20          Q. So paragraphs 5.210 and 5.212. On my copy it is at  
21          page 340.

22          A. Yes.

23          Q. Do you understand those paragraphs of the decision to be  
24          setting out the same framework as you have adopted?

25          A. Can I just read them?

1 Q. Yes.

2 A. Yes, basically it is saying that the level of return on  
3 sales is a function of risk, investment and,  
4 importantly, also the level of costs.

5 Q. Okay. You can put the decision away now. Standing back  
6 for a moment, do you agree that a completely different  
7 approach could have been to ask an empirical question  
8 such as: what is the rate of return that is normally  
9 made on a generic pharmaceutical product, or what is the  
10 rate of return that is normally made on a product like  
11 Phenytoin?

12 A. You mean that is a fair and reasonable question to ask.  
13 I think --

14 Q. I am just saying --

15 A. I am just trying to make sure my position is clear on  
16 it. Because as an economist, quite clearly you can  
17 either rely on theory or you can base yourself on  
18 empirical evidence. I think in reality those two should  
19 converge, it would be odd if the theory was telling you  
20 something completely different, and I have no reason to  
21 believe in this instance that they should not converge.

22 I think the problem with looking at things  
23 empirically, as I have just stated, that to find  
24 a return on sales which is exactly comparable you need  
25 to make sure that they have the same level of risk, the

1 same level of investment and the same level of unit  
2 costs.

3 I am not putting that forward to be problematic, ie  
4 shooting holes in the other experts' evidence, I am  
5 saying that because it actually matters, it matters at  
6 a detailed level. When I look at the evidence from the  
7 generics I find there is a very wide dispersion of  
8 return on sales. If I looked empirically and I found  
9 everything pointing in the same direction, everything  
10 said 21 per cent no matter how I cut it, then I might be  
11 able to conclude that that would be a valid comparator,  
12 but it does not, and therefore I am concerned that using  
13 an empirical approach would be helpful, unless some  
14 context to each of those generics is provided, ie if  
15 a person said "I have looked at this comparator, I think  
16 it has the same level of risk, the same level of  
17 investment, and it has the same level of unit costs",  
18 then in those circumstances I would say that is a valid  
19 comparator.

20 Q. But you agree that, in principle, one could look at  
21 a reasonable rate of return by means of empirical  
22 observation and that would be a reasonable approach?

23 A. As an economist I would say yes, that is --

24 Q. And --

25 MR HOSKINS: Let him finish, please.

1       A. Oxera makes the same point in a document that is  
2       referred to by the CRA, but it makes the point very  
3       critically that you can use a return on sales approach  
4       by benchmarking so long as you control for the same cost  
5       structures and the level of risk. They do not just put  
6       that in as idle chit-chat, they put that in because it  
7       is of fundamental importance to the analysis.

8               So my general position would be that if that level  
9       of analysis has not been done, I can put little  
10      weight -- for myself, I would put little weight on that  
11      evidence because I just would not know if that was  
12      telling me something that is comparable. My concern is  
13      that you are comparing an apple and a kumquat as opposed  
14      to two apples.

15     MS BACON: So as I understand it, as you just explained,  
16               your analysis was a conceptual one rather than  
17               an empirical one?

18     A. I think that is fair.

19     Q. Another general point about your approach. We see that  
20               at various points in your reports you test your analysis  
21               by using cross-checks, and one example we will come to  
22               a bit later on is your ROCE cross-check which you say is  
23               to some extent informative about the 6 per cent.

24               In your role as an expert, would you accept that  
25               sometimes when you are carrying out an economic or

1 an accounting analysis the analysis that you carry out  
2 will turn on parameters that are uncertain or imprecise?

3 A. I think I have one caveat -- not caveat to make, just  
4 one clarification to make. Firstly, you have said --  
5 I would not want to necessarily say that all of the  
6 alternatives are cross-checks. The implication is that  
7 the PPRS is the main parameter, main benchmark --

8 Q. I was asking you a general question, Mr Harman. I am  
9 saying if you as an expert come across an analysis which  
10 turns on parameters that are imprecise, do you agree  
11 that that will sometimes happen?

12 A. That can sometimes happen. And I think what one has to  
13 do if you think that there is imprecision is you have to  
14 try to be generous in your calculations. So by  
15 reference to the return on capital employed, what I did  
16 there was I did the analysis by reference to all of the  
17 capital of Flynn, so it was not just Flynn's working  
18 capital, it was everything. But I was actually also  
19 generous in the calculation because I excluded  
20 creditors, and I also chose a higher weighted average  
21 cost of capital. So one way that you can deal with the  
22 imprecision is by flexing the assumptions in favour of  
23 the analysis.

24 Q. I was just going to come on to how you deal with it. So  
25 one way is to use generous assumptions, and do you agree

- 1 cross-checks would be another way do deal with that?
- 2 A. It depends on what the cross-checks are, but yes.
- 3 Q. I just want to explore the boundaries of the
- 4 cross-checks that might be legitimate, and I do not
- 5 think this will be controversial, I just want to
- 6 establish what your approach is. Taking your ROCE
- 7 analysis as an example, you say the CMA did not do that
- 8 itself, and you rightly acknowledge there are some
- 9 difficulties with that, but you say that it is at least
- 10 informative in a particular way that we will come to
- 11 later, is that correct? You say it is informative?
- 12 A. It is partly correct. They did a return on capital
- 13 employed analysis for Pfizer --
- 14 Q. Not for Flynn?
- 15 A. No, but they did one for Pfizer, and I think that in
- 16 itself is informative because the rate you give to
- 17 Pfizer also informs the rate that you can use for Flynn
- 18 given that before they came into this relationship it
- 19 was one integrated supply chain. Now we have broken the
- 20 supply chain up into two different parts, and obviously
- 21 those two have to be correlated in some way, they are
- 22 obviously connected.
- 23 Q. Mr Harman, I appreciate that you want to give full
- 24 answers to the tribunal but in some cases you are going
- 25 off on different areas that I have not asked you about,

1           and if you carry on doing that we are going to be here  
2           for three days, rather than two. I do not mean to be  
3           disrespectful.

4       MR HOSKINS: Sir, I do not think the witness should feel  
5           constrained. You made the same point to me. If you  
6           find it unhelpful you will tell him, I do not think it  
7           is for Ms Bacon to direct his answers.

8       THE CHAIRMAN: I am waiting to see how it develops,  
9           Mr Hoskins. It is fairly early days, I think a certain  
10          amount of give and take is reasonable.

11                But I think it is probably right, Mr Harman, that if  
12           you give your entire evidence in answer to every  
13           question we will be here a long time, and you do not  
14           need to do that.

15       MS BACON: And I am going to come to these points.

16       A. I do apologise, but I think some of these first points  
17           are quite fundamental, putting stakes in the ground, so  
18           hopefully I will not have to come back to them later.

19       THE CHAIRMAN: I think that is why they are being asked  
20           first.

21       MS BACON: So would you say that a cross-check is helpful,  
22           even if it is not the preferred methodology or the  
23           preferred parameter, but is at least informative or  
24           potentially informative as to the result?

25       A. As a hypothetical, yes, I would agree that those types

1 of cross-checks may, so long as you do not doubt their  
2 credibility.

3 Q. So your position is that something like your ROCE  
4 cross-check can be informative even if not perfect?

5 A. Yes, I think that is true.

6 Q. Would you also say that it is not -- I think it is  
7 picking up on what you have just said about doubting the  
8 credibility of the cross-check. You say it is not  
9 useful to do a cross-check with a methodology that is so  
10 far removed from what would be acceptable accounting or  
11 finance practice in the relevant context that it does  
12 not provide any useful information?

13 A. Sorry, could you repeat that.

14 Q. So if you decided that the methodology that you were  
15 using as your cross-check was actually wildly different  
16 from what anyone would normally do, then would you say  
17 that that was not particularly useful?

18 A. I think that is true.

19 Q. Right. Would you also agree with this statement: if you  
20 are providing expert economic or financial evidence to  
21 inform a decision-making process, and if that evidence  
22 turns on a parameter that is uncertain, you would regard  
23 it as appropriate to test that using informative or at  
24 least potentially informative cross-checks? I am asking  
25 a general question.

- 1 A. As a general question I think that is a fair point.
- 2 Q. I think you were here last Wednesday when Mr Williams  
3 was cross-examined?
- 4 A. I was, yes.
- 5 Q. At the end of his cross-examination I asked him  
6 a question about the purpose of a sensitivity analysis  
7 on a base case in general terms. His response, I do not  
8 think we need to go to the transcript, was:
- 9 "I think in general to test the robustness of the  
10 base case to see if it is wildly wrong because the  
11 sensitivity produces a very different result."
- 12 So that was his response to the purpose of  
13 a sensitivity analysis. Do you agree that cross-checks  
14 perform approximately the same purpose?
- 15 A. Sorry, I did not understand that last part.
- 16 Q. I asked him about what a sensitivity analysis is doing,  
17 why do you do it? And he said it is to test the  
18 robustness of the base case to see if it is wildly wrong  
19 because the sensitivity produces a different result.
- 20 I was asking you if you agree that cross-checks  
21 perform essentially the same purpose?
- 22 A. Yes, I think that is true, in general terms.
- 23 Q. So if your cross-check comes out with a similar answer  
24 to your base case you would say that supports the  
25 robustness of the base case?

- 1           It is not a trick question.
- 2       A. No, I am -- I am just trying to understand the question  
3           in terms of the analysis that has been performed.
- 4       Q. I am asking a general question.
- 5       A. I think as long as the cross-check that is performed is  
6           a sensible cross-check, then I would agree in general  
7           terms that that is true.
- 8       Q. Let us suppose it is a sensible cross-check, so if the  
9           sensible cross-check comes out with a quite different  
10          answer to the base case, do you agree that that would  
11          put you on notice that there might be problems with  
12          relying on the base case or at least relying solely on  
13          the base case?
- 14      A. If the cross-check came out completely different, and it  
15          was a reasonable one, would that undermine the analysis?  
16          Yes.
- 17      Q. Yes. So now I want to start some questions on the ROS  
18          benchmark, unless the tribunal has any questions about  
19          the general approach?
- 20      PROFESSOR WATERSON: I have one question, which is you seem  
21          to elide two concepts, capital employed and investment,  
22          they are not the same concept, obviously. So could you  
23          explain your understanding of these two concepts, how  
24          they relate.
- 25      A. Yes. I think the general theory between those two

1 things is -- and it is well rooted in regulation and how  
2 we regulate utilities, and those concepts have now been  
3 used in competition. But in effect there are two  
4 components: there is an amount of money that has been  
5 invested by investors, shareholders and debtholders, and  
6 they expect to receive that investment back at some  
7 point in time, and they also expect to earn a return on  
8 that. So that is the investment part: the bigger that  
9 pot, the bigger absolute return that you would require,  
10 all else being equal.

11 The second component is the return and that is  
12 normally referred to as the weighted average cost of  
13 capital. In effect that is a return that you would  
14 expect by investing in the market generally, adjusted  
15 for risk of that investment through what we would call  
16 a beta analysis.

17 Those two things together would give you your  
18 absolute return.

19 PROFESSOR WATERSON: But the capital, that is surely a stock  
20 concept rather than a flow, so ...

21 A. Yes, it is. But I think that the general competition  
22 viewpoint is could, in a competitive market, somebody  
23 enter into that market and earn a return at your price?  
24 And so what we are saying is that for them to enter, we  
25 would take the dominant company's invested capital as

1 proxy of what a competitor would need to invest to enter  
2 the -- but it is a stock concept, yes.

3 THE CHAIRMAN: Mr Harman, could I ask you: in your  
4 regulatory practice, what is the rough balance between  
5 capital-intensive and capital-light companies that you  
6 look at?

7 A. I would probably -- in terms of capital intensity?

8 THE CHAIRMAN: Not a measure, but are there more companies  
9 that have large capital for which the ROCE measure is  
10 not in principle unsuitable than the other --

11 A. I think that much of current regulation has been based  
12 on a return on capital employed, on a ROCE basis,  
13 because they have been dealing with telecoms, gas,  
14 electricity, water as integrated entities, so pretty  
15 much most of regulation up until the last ten years has  
16 been on that basis. Regulation has now started to  
17 change because it has introduced competition at the  
18 supply end of the spectrum and there has been a relevant  
19 question now that: as I break up a vertically integrated  
20 entity, how do I regulate the supply part which  
21 in effect is just a customer list business? I have  
22 a set of customers and I can market to them. And so  
23 there has been a migration for those industries away  
24 from the weighted average cost of capital on invested  
25 capital to a return on sales approach and that basis of

1 regulation is developing.

2 In my competition cases I would say 80 per cent of  
3 them have been based on industries that are  
4 capital-intensive and 20 per cent of them are on  
5 asset-light. One of the industries where that came up  
6 recently was in the energy market review that the CMA  
7 performed and they were looking at the returns on,  
8 again, the supply end of the spectrum. Again, that is  
9 a relevant issue.

10 THE CHAIRMAN: So this is a developing field.

11 A. This is very much a developing field. My general point  
12 is I think that the economics of weighted average cost  
13 of capital, invested capital is well understood. You  
14 could almost think of it as commoditised, people know  
15 what the approaches are. Return on sales is very new.

16 THE CHAIRMAN: Do not diminish your expertise, Mr Harman.

17 Thank you.

18 MS BACON: I am going to now turn to some questions on the  
19 ROS benchmark. Can you take up your first report and  
20 look at paragraph 2.20. You say there that:

21 "The PPRS can be used as a starting point ..."

22 And the way that it has been used, you say in that  
23 paragraph 2.20, subparagraph (1), is that:

24 "The CMA has identified the broad PPRS portfolio  
25 average and then considered the various risk and

1 investment dimensions to see whether the return for  
2 Phenytoin is likely to be above or below the average  
3 PPRS benchmark."

4 Do you see that paragraph?

5 A. Yes. I do not state there that it is the starting  
6 point.

7 Q. No, you just say the PPRS can be used as a starting  
8 point. Just to --

9 A. Yes.

10 Q. -- check what you mean by "average PPRS benchmark", do  
11 you mean the 6 per cent?

12 A. Yes.

13 Q. Then if you --

14 A. Can I just clarify what I mean there by "starting  
15 point". Because obviously the PPRS is a portfolio,  
16 obviously when you look at the 6 per cent that has to be  
17 the starting point because we are trying to find  
18 a return for a particular product within that portfolio.

19 Q. Yes. So you make the same point at 2.23. You say:

20 "The CMA identifies a benchmark, the PPRS, which  
21 contains a higher number of companies and products. It  
22 then assesses the risk and investment of Phenytoin  
23 against that benchmark. The CMA concludes that  
24 Phenytoin is less risky and requires less investment  
25 than the benchmark average and it concludes that the

1 benchmark average provides a conservative estimate of  
2 the reasonable returns for Phenytoin."

3 Can you fast forward to 4.43, which is a more  
4 detailed section of your report, and I think you make  
5 the same point there.

6 Can I summarise that this way: so you are describing  
7 what the CMA has done, and your evidence from those two  
8 paragraphs that I have taken you to is that there are  
9 two main conceptual steps in the CMA's logic. Firstly,  
10 the identification of a starting benchmark, and you just  
11 explained that concept, a starting benchmark, and  
12 secondly, a comparison of the risk and investment of  
13 Phenytoin against that starting benchmark to see whether  
14 Phenytoin should be above or below it. Is that right?

15 A. Correct.

16 Q. So is it correct then to say that the CMA starts from  
17 the PPRS figure, step one, and then looks at other  
18 factors such as the levels of risk and investment to see  
19 whether those other factors imply that for Phenytoin the  
20 benchmark should be higher or lower?

21 A. Yes. When it is considering the PPRS benchmark its  
22 starting point is to take the 6 per cent for the  
23 portfolio and then to consider whether it is higher or  
24 lower than that benchmark.

25 Q. And you endorse that approach, is that right?

- 1 A. I think that is a reasonable approach.
- 2 Q. Just going back to the discussion we had about your  
3 conceptual framework, am I right in thinking this is one  
4 of the places in your analysis where your conceptual  
5 framework feeds into your conclusions?
- 6 A. Yes.
- 7 Q. So when you are talking about the reasonable rate of  
8 return for the product, and when you are referring to  
9 risk and investment to inform that reasonable return,  
10 what you are doing as an economist is to look at  
11 a reasonable return in light of the risk and investment  
12 characteristics of Phenytoin?
- 13 A. Yes.
- 14 Q. Could you look at the decision again, please. 5.163,  
15 and you will see three bullet points. Am I correct to  
16 think that your evidence is that the starting benchmark  
17 chosen by the CMA is the third of those three bullet  
18 points?
- 19 A. No, I think what I just -- I tried to make that clear.  
20 I think what it says somewhere around here is that it  
21 considers all of these pieces of evidence in the round,  
22 is what the CMA says.
- 23 Q. But we are talking about the starting benchmark and you  
24 agreed it was the 6 per cent portfolio ROS, and I am  
25 just asking you which of those three bullet points

1 produces the 6 per cent?

2 A. But I think this is where we are slightly different.

3 I said when you are looking at the benchmark for the  
4 PPRS, your starting point is the 6 per cent within the  
5 PPRS, and then you are asking the question: where, from  
6 that 6 per cent, does your analysis take you? I am not  
7 saying here that the CMA started with the PPRS.

8 Q. I am just looking at your report, paragraph 4.43:

9 "Conceptually the CMA considers the broad PPRS  
10 portfolio average and then considers various risk and  
11 investments dimensions."

12 I think you agreed what it had done was started with  
13 the 6 per cent PPRS and then looked at whether that was  
14 going to be too high or too low. So given that you  
15 agreed with that, I was asking you which of those three  
16 bullet points produces the 6 per cent?

17 A. But I think you have to read the first sentence  
18 carefully. It says:

19 "First, I understand that the PPRS regulator  
20 portfolio profitability rather than individual --"

21 Q. Maybe we are looking at the wrong part of the decision.  
22 It is paragraph 5.163:

23 "The CMA has considered the following possible  
24 benchmarks ..."

25 First bullet point:

1 "Flynn's internal ROS."

2 Second:

3 "Other companies' ROS rates."

4 And third bullet point:

5 "The allowable ROS under the PPRS."

6 Given you have just agreed, and it is in your  
7 report, that the first step was to consider the PPRS  
8 portfolio average, I am just asking you: do you agree  
9 that the third bullet point was the CMA's starting  
10 benchmark?

11 A. I think you have to look first at what the CMA says and  
12 then look what I say. If you look at 5.164 in  
13 the decision, and if you look towards the bottom of  
14 that, it says:

15 "Weighing up all of these factors in the round, the  
16 CMA has determined for the reasons set out below that  
17 a 6 per cent ..."

18 It does not say there that it has started with the  
19 PPRS.

20 What I say in 4.43 of my report is that, first,  
21 I understand that the PPRS regulates portfolio  
22 profitability rather than individual product  
23 profitability. However, the benchmark:

24 "The PPRS can be used as a starting point in  
25 the determination of a reasonable return for a specific

1 product."

2 So again, what I am saying there is that if you take  
3 the PPRS as a particular benchmark, and your question  
4 is: given this one benchmark, what do I do with it? You  
5 can take the starting point as 6 per cent and then you  
6 ask yourself: is it higher or lower?

7 Q. I think that is where we come out. You say you take the  
8 starting point of 6 per cent and you consider whether it  
9 is higher or lower.

10 A. But I think you are inferring something slightly  
11 different to what I am inferring.

12 Q. No, I was just asking you which of those three bullet  
13 points was the starting point, but let us move on --

14 A. I think if you want to go in chronological or in ordering turn,  
15 Flynn's

16 internal ROS is the first point in this list and it goes  
17 on from there.

18 Q. Yes, and that was not the starting point, was it? The  
19 6 per cent was the starting point?

20 A. It says here the CMA says:

21 "Weighing up all of these factors in the round ..."

22 Q. All right, so let us move on. You have said in your  
23 report that the first step is to look at the starting  
24 benchmark, and I understand what you then say about  
25 considering whether that is too high or low by reference

1 to other factors, but I just want to be clear about what  
2 your evidence is regarding the appropriateness of the  
3 starting benchmark. You just said to the tribunal, and  
4 you have said in paragraph 4.43, that PPRS can be used  
5 as the starting point?

6 A. I think we are still at odds. I am saying one thing and  
7 you are cutting across me and saying something  
8 different.

9 Q. I am just asking you whether your evidence is still what  
10 you say in 4.43, which is:

11 "The PPRS can be used as a starting point ..."

12 And I am just asking you whether that is still your  
13 evidence?

14 A. Okay, so let us just be clear with what I am saying, and  
15 I am sorry to be repetitive. To be clear, I think the  
16 PPRS is a benchmark that is informative. When you take  
17 the portfolio of the PPRS, which is a 6 per cent return,  
18 you can take that 6 per cent return within that  
19 benchmark as a starting point to determine whether  
20 a product within the PPRS is likely to have had a return  
21 that is higher or lower than the 6 per cent. I am not  
22 saying that when we do this analysis we start with the  
23 PPRS and then cross-check everything else.

24 Q. I am not sure ...

25 MR LOMAS: I think it may help -- paragraph 4.43 of

1 Mr Harman's report is where he is addressing the  
2 appellants' specific arguments under the heading "The  
3 PPRS Industry Benchmark".

4 MS BACON: Yes. I am trying to understand what he is  
5 saying, because he has said it can be used as a starting  
6 point, and I took him to the paragraph 2.23 where he set  
7 out the CMA's approach looking at a benchmark average.  
8 What I was trying to establish was whether he still  
9 thought that PPRS was that benchmark average but it may  
10 be that we are actually in violent agreement but with  
11 different words.

12 A. Just to be clear, I think the PPRS is a relevant  
13 benchmark, but I do not order it first amongst the  
14 others. There is a whole load of analysis that goes in,  
15 some of it quantitative, some of it numerical, and all  
16 of those points are taken together in the round to come  
17 up with whether 6 per cent is a reasonable return.

18 Q. Right. Do you agree this: the only source of the figure  
19 of 6 per cent, the only place where a figure of  
20 6 per cent is specified, is the PPRS?

21 A. I would agree that the only number that comes out is  
22 6 per cent, but you have to think --

23 Q. That is not what I was asking. I was saying: where does  
24 the 6 per cent come from? The CMA had to -- do you  
25 agree it came from the PPRS?

1       A. I agree, but let me just put the context. If I had five  
2       data points and it was 1 per cent, 2 per cent,  
3       3 per cent, 4 per cent and 6 per cent, and that is the  
4       analysis that you have in the round, it would be  
5       generous of the CMA to say, "Well, I will take the  
6       highest one at 6 per cent because it is higher than all  
7       the other four". That is not to say that it is putting  
8       primary weight on that benchmark, it is saying in the  
9       round there are lots of returns that are below, and to  
10      be generous we are going to adopt 6.

11      Q. Assume we actually had a number of data points, one was  
12      6 per cent and one was 21 per cent, and then one had  
13      Flynn internal ROS, so what it did was to take the 6  
14      which was the PPRS?

15      A. That is not correct. So the ordering of the document  
16      first considers Pfizer, it considers Pfizer, it looks at  
17      its threshold at which it put its products under review,  
18      it looks at Pfizer's own profitability, it did  
19      a weighted average cost of capital ROCE cross-check, it  
20      did a qualitative analysis of risks and it concluded  
21      that a return of 6 per cent would be generous to Pfizer.

22             It then addresses Flynn having already put a stake  
23      in the ground on Pfizer. Its starting point is, well,  
24      actually when we look at Flynn, it is now only doing  
25      a very limited number of activities and has low risk, so

1 a priori we do not believe that it needs a higher return  
2 than Pfizer.

3 It then -- and this is where you pick it up in  
4 the decision at 5.166, the activities and risks incurred  
5 by Flynn. It goes through that analysis, and then it  
6 brings it back to the Pfizer point when it looks at  
7 Flynn's rate of return in absolute terms at table 5.15  
8 and it makes the observation that a 6 per cent return  
9 for Flynn would be very generous in comparison to the  
10 absolute level of return that had been allowed for  
11 Pfizer.

12 Q. We will --

13 A. But there is all of that in the round that went into the  
14 decision.

15 Q. So taking that point on its own terms, where in 5.163  
16 does it say that the CMA has considered Pfizer's rate of  
17 return as a benchmark for a reasonable rate of return  
18 for Flynn?

19 A. What you have to do is you have to look at the  
20 paragraphs from 5.183 to 5.186 where it concludes --

21 Q. I am not asking you about the absolute rate of return --

22 THE CHAIRMAN: You have to be careful, Mr Harman. You have  
23 counsel who will argue the CMA's position. You are here as  
24 an expert witness to give your opinion on what these  
25 issues tell us, so I think you must be careful not to

1           move off into defending the decision, which you may or  
2           may not think is under attack, but it is not your  
3           position really to do that. I appreciate your wish to  
4           put the context but I think you must try to avoid doing so by  
5           becoming an advocate, if I may say so.

6           A. I am sorry, I am not trying to be an advocate.

7           Obviously I know my place in this courtroom. But I was  
8           asked to analyse what the CMA did in terms of coming up  
9           with a 6 per cent return. So in concluding --

10          THE CHAIRMAN: But all you can do -- sorry to interrupt  
11          you -- as an expert is to give your view as to what they  
12          appear to have done.

13          A. I am sorry, yes, that is true.

14          THE CHAIRMAN: Otherwise you are getting a little close.

15          A. True. But when I do my analysis, sir, I also do that  
16          analysis and I ask myself the question: do I think, as  
17          an economist, this is a reasonable piece of analysis?  
18          And I think that what they have done here is reasonable  
19          based on my economic ...

20          THE CHAIRMAN: Okay. If we could maintain that stance then,  
21          please.

22          MS BACON: I will move on, sir.

23                    If you can take up your report again and look at  
24                    paragraph 4.44.

25          A. Yes.

1 Q. You have said in 4.43 that the PPRS can be used as a  
2 starting point, and you are looking here at the  
3 appellants' arguments that the PPRS cannot be used as a  
4 starting point. Then at 4.44 you give a reason for  
5 saying that the PPRS can be used as a starting point, and  
6 your reason, as I read it, is that the PPRS accounts for  
7 80 per cent of the NHS drug purchases.

8 So just looking at this paragraph of your report,  
9 am I right to say that your evidence is that the  
10 6 per cent rate is a reasonable starting benchmark  
11 because it is the rate applied to the 80 per cent of the  
12 NHS drug purchases?

13 A. I think the quality of the benchmark is reasonable  
14 because it is 80 per cent. I think there was some  
15 evidence last week that said that might be as low as  
16 50 per cent.

17 Q. I am coming to that. So the 80 per cent figure, taking  
18 that at its face value, that is a figure by value rather  
19 than volume, is it not?

20 A. I am not sure but I take your word on that. I do not  
21 think much turns on it. It is a high number.

22 Q. I am just trying to establish what the 80 per cent is  
23 of. You have given as a footnote reference Mr Williams'  
24 report, and his report refers to the 80 per cent as  
25 being by value?

- 1 A. Correct.
- 2 Q. So you are referring to the PPRS as accounting for  
3 80 per cent by value of the NHS spend?
- 4 A. Yes, it says "by purchases", yes.
- 5 Q. Do you know where the 80 per cent figure comes from?
- 6 A. As I said, I have taken it from Mr Williams' --
- 7 Q. You just took it from Mr Williams and you did not do any research  
8 yourself to verify that  
9 figure?
- 10 A. No, I did not.
- 11 Q. You have just said you heard Mr Williams' evidence last  
12 Wednesday that the PPRS spend during the relevant period  
13 was actually substantially lower than 80 per cent. He  
14 said close to 50 to 60 per cent. Were you aware of that  
15 when you were preparing your reports earlier this year?
- 16 A. No, I was not.
- 17 Q. At the end of Mr Williams' cross-examination,  
18 Professor Waterson asked him why he thought the  
19 80 per cent figure, which he explained was an old figure  
20 quoted by I think the ABPI, had dropped to nearer 50 or  
21 60, and Mr Williams answered that he thought there were  
22 two or three reasons driving that. One was the fact  
23 that generics were a more important part of the drugs  
24 bill, the second was that parallel imports have  
25 increased fairly materially, and the third was that

1 a number of companies had elected not to join the PPRS.

2 For the purposes of your report, did you do any  
3 research on the number of UK pharmaceutical companies  
4 that were within the PPRS as opposed to without the  
5 PPRS?

6 A. No, I did not.

7 Q. Have you done any research on the actual ROS rates of  
8 the companies who are outside the PPRS?

9 A. No, I have not.

10 Q. Did you do any research on what percentage by volume of  
11 the NHS medicines were accounted for by the PPRS?

12 A. No, I did not.

13 Q. Can you be handed, please, bundle N, and can you turn to  
14 tab 14. No, let us start with tab 15. This is an NHS  
15 statistics document. This is one of the additions to  
16 the bundle over the weekend. Can you see the front page  
17 behind tab 15?

18 A. I can.

19 Q. This gives a graph showing the generic mix. So my  
20 understanding, and obviously you have not seen this  
21 before, so if you have any further comments you want to  
22 make on the veracity of this you can do so tomorrow, but  
23 this shows at least that generics seem to have accounted  
24 for about 75 per cent of the proportion of products  
25 dispensed by pharmacy contractors, if you read the text

1           underneath.

2           A. Yes. I mean obviously I am only seeing this for the  
3           first time, and I have no idea how the data is, but  
4           I can see what it says.

5           Q. Of course, exactly. If you then go back to tab 14 and  
6           you turn the page, this is an OECD document from 2016,  
7           and if you look at the first column on the second page,  
8           just above the graph you will see the words "In 2014"?

9           A. Yes.

10          Q. "In 2014, generics accounted for 84 per cent of the  
11          volume of pharmaceuticals sold in the United Kingdom,  
12          the highest among EU countries."

13                 Obviously I will ask you tomorrow if you have any  
14          comments you want to make -- any further comments you  
15          want to make on those statistics, but just taking those  
16          at face value for the time being, assuming they are  
17          correct, it looks like generics now account for at least  
18          75 per cent of the market by volume and possibly even  
19          higher.

20                 Can I take it from your responses that you were not  
21          aware of those figures when you wrote your reports?

22          A. I was not. I am not sure it would impact what I have  
23          written in my reports.

24          Q. I just wanted to see if you knew of them. So do you  
25          agree that if those figures are right, then branded

1 products within the PPRS -- let us just take this in  
2 stages. Branded products must account for 25 per cent  
3 or less by volume, is that right?

4 A. There or thereabouts.

5 Q. And because some companies are not within the PPRS, and  
6 you do not know how many but there are some, it does  
7 mean that branded products within the PPRS must account  
8 for less than 25 per cent by volume?

9 A. Of the market.

10 Q. Of the market.

11 A. Yes.

12 Q. And possibly much less if the OECD figure is to be  
13 believed?

14 A. I have no data to be able to confirm or deny that. My  
15 point, though, is that the PPRS quite clearly contains  
16 a lot of companies and a lot of drugs, but the --

17 Q. But you do not know --

18 MR HOSKINS: Please. Continually interrupting the witness  
19 is not acceptable.

20 A. But the quotation of the 80 per cent just says this has  
21 a big sample size within it, and that gives it a degree  
22 of credibility. That is the only point that is being  
23 made about the 80 per cent.

24 MS BACON: Right. So in paragraph 4.43 in the last line,  
25 when you refer to the "average PPRS benchmark", and when

1           you refer in the middle of 4.43 to the "broad PPRS  
2           portfolio average", are you there referring to the  
3           6 per cent?

4           A. I am.

5           Q. Have you done any analysis of the average ROS rates for  
6           PPRS companies, for example, by looking at their  
7           statutory accounts?

8           A. I have not. I have relied on the information contained  
9           in Mr Williams' second report.

10          Q. Have you done any analysis of the ROS for any company  
11          within the PPRS other than Flynn and Pfizer?

12          A. No, again I rely on the data that has been prepared by  
13          Mr Williams in his second report.

14          Q. So you do not actually know what the broad PPRS  
15          portfolio average ROS is, do you?

16          A. In terms of out-turn? I have an idea because the  
17          information is contained within Mr Williams' second  
18          report. But I think that there is an issue here as to  
19          whether I am relying on what the regulated benchmark is  
20          as an indicator of a return or whether companies are  
21          earning more or less than that in out-turn. I think  
22          what I am relying on is the benchmark as opposed to the  
23          out-turn, but we do have some information from  
24          Mr Williams in his second report.

25          Q. I am going to ask you about that in a minute. So when

1           you say the "broad PPRS portfolio average", do you  
2           accept that because you do not know what the broad PPRS  
3           portfolio average is, you are actually referring to the  
4           target ROS within the PPRS?

5           A.   Correct.

6           Q.   So when you say "average", that should be replaced with  
7           the word "target"?

8           A.   In which paragraph, sorry?

9           Q.   In 4.43, you use the word "average" twice.

10          A.   Yes, I think that it refers to the target.

11          Q.   Right.  So we will just write "target" in, rather than  
12          "average".

13                 Do you know how many companies hit that target?

14          A.   I do not know but --

15          Q.   Did you do --

16          A.   -- there is some information in Mr Williams' second  
17          report.

18          Q.   Did you do any research to see how many companies hit  
19          the target of 6 per cent, or come in at 6 per cent or  
20          below?

21          A.   No, I did not.  And just to clarify, my instructions  
22          were to review the evidence that the CMA had relied on  
23          and the evidence that had been put forward by the  
24          appellants.  So my work was constrained, and I set that  
25          out clearly in the first section of my report.

- 1 Q. So when you say in paragraph 4.44:
- 2 "I consider an assessment based on a portfolio
- 3 covering approximately 80 per cent of the NHS drug
- 4 purchases."
- 5 You are not saying in that sentence, are you, that
- 6 80 per cent by value of the NHS drug purchases hit the
- 7 6 per cent?
- 8 A. No, what I am saying is that 80 per cent had a target
- 9 return of 6 per cent.
- 10 Q. You have seen and you have heard Mr Williams' evidence
- 11 that you have to submit an AFR under the PPRS if you are
- 12 above a certain threshold or if you are applying for
- 13 a price increase on the grounds of insufficient AFR
- 14 profits, but otherwise he says you do not have to submit
- 15 an AFR unless the Department of Health specifically
- 16 requests it on an ad hoc basis.
- 17 Do you know what proportion of companies within the
- 18 PPRS do submit AFRs?
- 19 A. Not to hand.
- 20 Q. Have you done any research to see what the average
- 21 return on sale is for the companies that do not submit
- 22 AFRs?
- 23 A. No, I have not.
- 24 Q. So returning to paragraph 4.44, we now know that on
- 25 Mr Williams' evidence the PPRS covered only 50 to

1           60 per cent of purchases by value during the relevant  
2           period. If the figures I have just shown you are  
3           correct, that was less than 25 per cent by volume, maybe  
4           even much less. You do not know how many companies were  
5           in the PPRS, you do not know what the ROS rates of the  
6           companies outside the PPRS were, you do not know what  
7           the actual average ROS is for any company within the  
8           PPRS. Does not all of that fundamentally undermine the  
9           reasonableness of taking a 6 per cent benchmark?

10          A. No, I do not think that it does. My understanding of  
11          the PPRS is that it sets a target rate of return of  
12          6 per cent, it allows a margin of tolerance above that,  
13          and as soon as you are above that margin of tolerance  
14          you have to pay back an amount of money between the  
15          difference above the margin of tolerance. It is  
16          a maximum level, the margin of tolerance.

17                 So I take the 6 per cent at face value as an  
18          indicator of a regulated return believing that for those  
19          companies where it is enforced they would have to earn  
20          a return lower than the 6 per cent or lower than the  
21          margin of tolerance. There is a second question as to  
22          whether those companies that are not providing the  
23          returns, because they do not have to because of their  
24          size, are earning a higher return, and I refer to this  
25          in my second report. As I understand it, the PPRS can

1           be enforced, you are allowed to look at the returns to  
2           see if it is going to be above 60 per cent, so I had my  
3           analogy in there of --

4       THE CHAIRMAN: 6 per cent.

5       A. 6 per cent, yes.

6       THE CHAIRMAN: If it was 60 per cent we probably would not  
7           be here.

8       A. Sorry. It is my analogy that says if you are speeding  
9           on a country road and you get away with it, that does  
10          not mean the law was not there.

11                So my point is, and it is for the tribunal to  
12                determine, I look at the target rate as something which  
13                I think is as illustrative of what the PPRS sets out to  
14                be the return that you should be allowed.

15                There is a second question. If companies are not  
16                complying with it because they do not have to file  
17                returns then that is another matter. That is not for me  
18                to determine whether that is a legal thing and whether  
19                the return should be based on that. I just say I look  
20                at the target and take that return.

21       MS BACON: I think we have understood your evidence on that  
22                now, Mr Harman. Can you turn over the page and look at  
23                paragraph 4.46. In that paragraph you quite candidly  
24                say that it might be possible to adopt a more specific  
25                benchmark than the PPRS based on comparables with

1 similar risk and investment profile. But then you make  
2 the point that you made to the tribunal at the start,  
3 that you think the comparator would need to be  
4 comparable across a range of different factors which you  
5 set out there and you explained earlier on.

6 That is why you said, and you said this morning,  
7 that Flynn's suggested comparators are not comparable,  
8 and you say that is the reason why those cannot be used  
9 to derive the starting benchmark.

10 A. I do not actually say they are not comparable, I say  
11 I had no information to know whether they are, and the  
12 devil is in the detail, and because the returns have  
13 such a big spread I would be cautious of looking at that  
14 as a benchmark because I do not know what it would tell  
15 me.

16 Q. Right. You have not carried out any analysis of whether  
17 Phenytoin is comparable to the products that are  
18 assessed under the PPRS under those criteria, have you?

19 A. No. But I have relied on what the CMA has done in terms  
20 of its assessment of risk and investment.

21 Q. But the CMA has not, as far as you have seen, done an  
22 assessment of whether Phenytoin is comparable to the  
23 products that are assessed under the PPRS on all of the  
24 factors that you set out in paragraph 4.46, has it?

25 A. I think it does. Let me just give one example. The

1 first aspect, and it is probably a large aspect, is the  
2 level of investment. I know that within the PPRS there  
3 are lots of drugs which are new, innovative, and I think  
4 it is easy to assume that they have required a level of  
5 investment above a certain level. I am kind of  
6 conscious of what numbers I am allowed to say and not  
7 allowed to say. But we do know the level of investment  
8 that Flynn incurred in investing in this and it was  
9 very, very little.

10 So I do not think that it is difficult to assume  
11 that compared to the average level of investment in  
12 the PPRS, Flynn must be towards the lower end.

13 Q. I am going to come to that in a minute. But do you  
14 agree that you have not applied your own test of  
15 comparability in 4.46 to the PPRS benchmark?

16 A. What I have done is, as I have looked at the CMA's  
17 assessment of risks, I am not an industry expert so  
18 I cannot actually do that analysis from first principles  
19 myself, I explained where they had done that in the  
20 decision document. If those facts are true, and  
21 I cannot comment on whether they are true, my assessment  
22 as an expert in setting rates of return would be that  
23 this is towards the lower end of the risk and investment  
24 spectrum.

25 Q. I wanted to come on to that. You said you are not

1 an industry expert, so is it right to say that you have  
2 no experience in assessing risk and investments in the  
3 generic or branded pharmaceutical industry generally?

4 A. That is what I said. If I was to do this from first  
5 principles, I would not know what risks to look at. But  
6 if somebody tells me that there are indemnities within  
7 a contract between Pfizer and Flynn, then as an expert  
8 I am able to interpret what that would mean on  
9 a spectrum of risk and investment. If I know that they  
10 order every two weeks and their level of stock is low,  
11 that is a factual point. As an expert I am able to  
12 determine whether I believe that it is at the low end of  
13 the spectrum.

14 I know, for example, that if it outsources its  
15 distribution, which is a fact that I think is not  
16 contested, all other things being equal that will lower  
17 its overall level of risks because that is the risk  
18 incurred by somebody else. We know, in comparison to  
19 other Flynn products, it has very low sales and  
20 marketing costs because it is a very old drug. That is  
21 very well-known.

22 So again it is easy to imagine that that is going to  
23 be at the lower end of the spectrum than the upper end  
24 of spectrum. I agree that it is a qualitative  
25 assessment but it is something that I have looked at,

1           and I think that if those facts are true this is a low  
2           investment, low risk product.

3           Q. We do have an expert on that in the form of Mr Davies  
4           and I see you were provided with his report and I see  
5           you have referred to his evidence --

6           A. Yes.

7           Q. -- in one of the footnotes, footnote 163. Were you in  
8           court when Mr Davies was being cross-examined?

9           A. I was indeed.

10          Q. So you will have seen and heard that he has given expert  
11          evidence about the relative importance of Flynn's  
12          various activities. And he explained in his  
13          cross-examination that that evidence came from his  
14          industry experience, many years of working in  
15          the industry, as well as information obtained from  
16          Flynn.

17                 Am I correct to say that it is not within the scope  
18          of your expertise to rebut his specific industry  
19          evidence in that regard?

20          A. I am not. As I said, once a set of risk factors are  
21          presented to me, and you have the CMA's on the one side  
22          and you have Mr Davies' on the other side, then I am  
23          able to evaluate them both. I do not dismiss what  
24          Mr Davies has to say about risks. I have looked at  
25          those risks and I do not -- well, the first point

1 I would say is clearly there are risks, there are always  
2 risks in business, and he identifies some risks which  
3 are common across pharmaceutical firms. I accept that  
4 there is a degree of risk. But there are other risks  
5 that he talks about in terms of quality that we know,  
6 that Pfizer has given Flynn an indemnity, that would be  
7 a risk that he identifies that has been diminished.

8 He also raises a risk about stock and having to deal  
9 with that. Now, I had considered stock. When I do my  
10 WACC analysis, my ROCE analysis, I look at the level of  
11 stock that Phenytoin actually has and I conclude the  
12 level of stock that it holds does not justify the  
13 returns that it is earning.

14 So again what I would say is I am not an industry  
15 expert. The risks have been presented and I have  
16 analysed those risks in a qualitative and in some  
17 instances quantitative way and believe that overall this  
18 is a low risk industry. Yes, it has some risks.  
19 Obviously it does.

20 Q. But you did not carry out any empirical analysis of the  
21 risks and investments for any company within the PPRS,  
22 other than Flynn and Pfizer, did you?

23 A. Yes and no. Because when I have done my analysis of the  
24 return on capital employed approach, I did have to come  
25 up with a weighted average cost of capital, which I came

1 up at 8 to 12 per cent. 8 to 12 per cent is not  
2 significantly -- it is not massively risky, I would say  
3 that is of average risk. But in coming up with the  
4 upper range of that at 12 per cent, I think that is  
5 generous. Because at the back of Mr Davies' witness  
6 statement --

7 Q. I am sorry to interrupt. I asked a question which is  
8 whether you did any empirical analysis of any company  
9 within the PPRS to look at that company's risks and  
10 investments?

11 A. Yes. We looked at the weighted average cost of capital  
12 of Pfizer. Pfizer, to my knowledge, is within the  
13 PPRS --

14 Q. I asked "other than Flynn and Pfizer" in my question.

15 A. I have looked at that. And then I was going on to say  
16 that in Mr Davies' witness statement, at the end of it  
17 there is an annex which looks at valuing -- I think it  
18 is in Mr Davies' -- that looks at investment returns or  
19 investments in the pharmaceutical industry, and in there  
20 it talks about what it thinks is a weighted average cost  
21 of capital for the pharma sector. In there it says it  
22 believes a weighted average cost of capital below  
23 8 per cent is normally used. Now, the weighted average  
24 cost of capital tells you something about the risks of  
25 these businesses and actually that is telling me that it

1 is not that high.

2 Q. Can I ask my question again. Did you look at any  
3 company within the PPRS, other than Flynn and Pfizer,  
4 and do an analysis of that company's risks and  
5 investments overall, without relying on assumptions or  
6 general figures that you get from somewhere else?

7 A. No.

8 Q. Right --

9 A. But I have relied on Mr Davies.

10 THE CHAIRMAN: Is this a good moment to pause?

11 MS BACON: I have a couple of questions left on this topic,  
12 if you would not mind. Four in fact.

13 THE CHAIRMAN: Four questions. That is not a couple.

14 MS BACON: I have four bullet points and they are not all  
15 questions, but anyway --

16 THE CHAIRMAN: I think I would prefer to break now.

17 Mr Harman, is the sun troubling you? It is coming  
18 through the windows rather brightly.

19 A. No. I am trying to look this way mostly (indicating).

20 THE CHAIRMAN: We can arrange for it to be shut out if you  
21 want.

22 We will resume in 10 minutes.

23 (11.43 am)

24 (A short break)

25 (11.53 am)

1 MS BACON: Mr Harman, I just have a few more wrap-up  
2 questions about risks. Can you pick up the other expert  
3 bundle, which is bundle D, and turn to tab 13 and look  
4 at Mr Williams' third report. Can you go to  
5 paragraph 15 of that.

6 A. Yes, I have that.

7 Q. You will be familiar with this part of his report. He  
8 is talking about limited risk distributorship models, or  
9 LRDs as I think it would be convenient to refer to them  
10 as.

11 If you turn over the page and look at  
12 subparagraph (b), what Mr Williams is saying here is  
13 that under an LRD model there is actually little or no  
14 risk for the UK distributor, the UK SMDC which is the  
15 company that is being assessed under the PPRS, because  
16 both the risks and the rewards are shouldered by the  
17 parent company.

18 He said at the start of paragraph 15 that most of  
19 the companies that submit AFRs under the PPRS operate  
20 this LRD model. Do you have any reason to disagree with  
21 that as a matter of fact?

22 A. No, I can just give what I understand one of these  
23 models to be and I think that it is important.  
24 Basically an LRD model has come about when companies  
25 want to restructure for tax purposes and they take

1 certain of their activities into tax jurisdictions that  
2 have lower tax. Obviously the Revenue service allows  
3 that under certain and important conditions.

4 The transfer price between on the one hand the  
5 manufacturing company and the distribution company,  
6 those risks have to be properly accounted for and  
7 determine the level of profit. So when the  
8 manufacturing company has a transfer price to the UK,  
9 the profit that it is allowed to charge has to be  
10 commensurate with the risks that are undertaken in  
11 the foreign jurisdiction. And in the UK effectively  
12 what it is saying is what we are expecting is a level of  
13 return in the UK that is commensurate with the risks  
14 that you are undertaking in the UK and obviously there  
15 is a transfer price between the two of them.

16 Now, the concern that I have with what is put  
17 forward is that the implication is that the parent  
18 company can change the transfer price as it likes, to be  
19 able to manipulate the profits in the UK, ie to limit  
20 those profits. But that is not my understanding of how  
21 transfer pricing works, which have to follow guidelines  
22 like the OECD guidelines, which basically says your  
23 transfer price has to be at arm's length. You cannot  
24 manipulate it. If you were investigated and found to  
25 have a transfer price that had an inappropriate level of

1           profitability, that would be taken into account when  
2           assessing the affairs of the UK entity.

3           So that is my understanding of those models. And  
4           what I take from this in my report is that if HMRC has  
5           said that if you are an entity in the UK that has  
6           limited risks, you distribute and you market and you  
7           sell, then for our purposes we think a 3 to 5 per cent  
8           return is appropriate, but you are going to have to make  
9           sure that your transfer prices are at arm's length.

10          They may or may not be investigated, but if the  
11          proposition is that they are not then that goes back to  
12          the point that I said before. There is a distinction in  
13          economics that says whether that is reasonable, there is  
14          a different point in law as to whether people are  
15          complying or not.

16        Q. So you do not disagree with the proposition that most of  
17        the companies that submit AFRs under the PPRS do operate  
18        this model. And you do not disagree with the  
19        proposition that under the model, however it works,  
20        you have just explained and Mr Williams has given  
21        evidence on it, the effect is that the risks are  
22        shouldered by the parent company?

23        A. No, I do not see it in that way. I think that the risks  
24        in the foreign jurisdiction attach to the risks of that  
25        entity in that jurisdiction and the risks of the UK

1           entity are shouldered by the UK entity. That is  
2           the general way that transfer pricing works between  
3           international companies.

4       Q. Right. But because the product is sold under the  
5           transfer price arrangement, what the UK entity is doing,  
6           it is an SMDC, it is essentially sales, marketing and  
7           distribution. That is why its profitability, the ROS,  
8           is set between 3 and 5 per cent. It is set at that  
9           level -- if I can finish my question -- because that is  
10          all it is doing?

11       A. Correct. And just to bring that back, that is all that  
12          Flynn is doing. So in the UK that is what it does.

13       Q. Flynn does not have a parent company at all, does it?

14       A. No, it does not.

15       Q. So it does not have any company that bears any of the  
16          risk associated with its part in the supply chain?

17       A. That is correct.

18       Q. So if you are comparing Flynn's risk to the risk of the  
19          average company under the PPRS, should you not be  
20          expecting a higher ROS for Flynn because it does not  
21          have a parent company that supplies it with products in  
22          the transfer pricing arrangement?

23       A. No, I think this is a misconception. If Flynn had  
24          an affiliate company that was in Germany, then its  
25          German entity would be allowed to earn a return and its

1 UK entity would be allowed to earn a return, and the  
2 return that the UK entity would be allowed to earn would  
3 be 3 to 5 per cent. The German entity may be able to  
4 have a higher return but it would have to be justified  
5 in the transfer price.

6 I think what is important is that when the cost plus  
7 analysis is done, that margin from the foreign entity is  
8 included in the transfer price.

9 Q. I am just going to come to that. So you deal with this  
10 in your evidence at 4.56 and 4.57 of your first report,  
11 but because you come back to this in more detail in  
12 the second report it would be more helpful if we went  
13 straightaway to your second report. Let us go to  
14 paragraph 4.6 of your second report.

15 A. Could you repeat the reference.

16 Q. 4.6 of your second report. A lot of what you say in  
17 paragraphs 4.6 and 4.7 is recording points on which you  
18 have been instructed by the CMA and you said at the  
19 bottom of 4.7 that you are not an expert on the PPRS.  
20 So I am going to try and confine my questions to the  
21 points that do seem to be your evidence.

22 If we can start with 4.7, subparagraph (1).

23 A. Yes.

24 Q. You make a point about the 17 to 18 per cent and that is  
25 a reference to the table in Mr Williams' second report,

1 is it not? I think you referred to that earlier?

2 A. It is.

3 Q. Shall we just look at that table, I know it is elsewhere  
4 in the bundles. So that is at tab 12 of volume D,  
5 page 9. You will have heard Mr Williams being asked  
6 about this last Wednesday and you will have heard his  
7 explanation that the figures in the table are a result  
8 of the various different allowances and adjustments in  
9 the PPRS scheme.

10 I am not going to ask you how those adjustments work  
11 in detail, that is the subject of his evidence and not  
12 yours, but I just want to take you to see what  
13 Mr Williams has said to see whether there is some common  
14 ground.

15 Can we start with his paragraph 31 under the table.  
16 He is explaining here that the "Company" column in this  
17 table will take the figures that are submitted by the  
18 companies in their AFRs and that those in turn are  
19 derived from their statutory accounts. But he says that  
20 in preparing the AFRs, in preparing the "Company"  
21 column, what they will do will be to amend their  
22 statutory account figures in the various ways that he  
23 describes, in particular by injecting costs from outside  
24 the statutory accounts, that is his (a), and grossing-up  
25 their R&D expenditure, that is his (b).

1           You will have seen he says that what the Department  
2 of Health then does when it looks at the AFR is to make  
3 various adjustments to the submitted data, so adjusting  
4 the data submitted in the "Company" column, and it also  
5 includes the transfer price allowance adjustments.

6           The extract from the report to Parliament that he  
7 cites, in the second paragraph under table 2, says:

8           "The result of making those adjustments and adding  
9 in things like the transfer price adjustment gives you  
10 an out-turn ROS of much more than would be implied by  
11 the data originally plugged in as set out in the  
12 'Company' column."

13           So do you agree with his description of what this  
14 table is doing insofar as you understand the point?

15       A. I do, yes.

16       Q. Can I turn to paragraph 19, back a couple of pages.

17           That may be a wrong reference. Yes, it is Williams 3,  
18 the next tab. Paragraph 19. He deals with this again  
19 there.

20           Going through this in some detail to see what you do  
21 agree with, start with subparagraph (a) and the second  
22 sentence:

23           "The real profitability in the NHS supply chain is  
24 not reflected in the out-turn figures because of the  
25 transfer price analysis."

- 1                   Do you agree with that?
- 2       A.   Yes, I agree with that.
- 3       Q.   Are you able to agree with subparagraphs (b) (i) and  
4           (ii) on the basis of what you have been told about the  
5           PPRS or do you not know enough about it to offer  
6           an opinion on those?  They were the points about  
7           injected costs and grossing up.
- 8       A.   I have read the scheme and it seems to accord with what  
9           the scheme says.
- 10      Q.   Right.  So do you agree then that the effect of those  
11           two adjustments, the injected costs and the grossing-up,  
12           would be to suppress or understate the reported  
13           profitability by comparison with the statutory accounts  
14           of the companies?
- 15      A.   Can you say that again, please.
- 16      Q.   There are two adjustments that are made when a company  
17           submits its AFR.  It takes its statutory accounts, but  
18           then it injects costs from outside the statutory  
19           accounts and it grosses up R&D in the way that he  
20           describes in (ii).  What he then says is that this would  
21           be to understate the reported profitability, do you  
22           agree?  Because both of those would have the effect of  
23           increasing the cost that is stated in the "Company"  
24           column?
- 25      A.   In the "Company" column.  Yes, I agree, yes.

1 Q. So over the page then, do you therefore agree with the  
2 paragraph starting:

3 "It follows from the above ..."

4 That is the point I have just made.

5 A. Sorry, in 12 or 13?

6 Q. So in 19, second page at page 8:

7 "It follows from the above that the assessed  
8 out-turn AFR report profits are materially lower than  
9 shown in the statutory accounts of the SMDC as they  
10 include a category of costs which do not appear in  
11 the SMDC's accounts and ignore a category of income ..."

12 And so on. That is the point I have just put to  
13 you.

14 A. Yes, if you incurred R&D; you cannot just inject ...

15 Q. Yes. So do you therefore agree with subparagraphs (a)  
16 and (b), and I leave out the words in the first  
17 sentence, "it is not a meaningful", I know you do not  
18 agree with that, but do you agree with 20(a) where he  
19 says:

20 "The 6 per cent figure bears no relation to the  
21 actual profitability of the small group of PPRS members  
22 whose profitability is controlled by reference to AFRs."

23 A. I think this is where we are in disagreement. This is  
24 where we appear to have a consistency issue, if I can  
25 put it that way, and I explain that in 4.7(2) in my

1 report.

2 Basically what I am saying is -- and it is something  
3 that I can see from the numbers to be true -- that when  
4 we are presenting the figures in the "Out-turn" column,  
5 we are taking the entity as being vertically integrated.  
6 We are saying let us combine the two companies as if  
7 they were vertically integrated.

8 Now, given that the manufacturing company will have  
9 lots of capital, obviously it is going to earn a high  
10 return on that, so when we integrate the firm as one,  
11 then quite clearly its profitability will go up and that  
12 is my understanding of what this PPRS scheme is doing.  
13 If we consider this as an integrated entity, then it has  
14 to have a higher return. That fully accords with my  
15 conceptual framework that I set out: higher capital  
16 invested, higher return.

17 It is interesting --

18 Q. Mr Harman, I am going to come on to 4.7(2). I was  
19 asking you about whether you agree with 20(a), and I was  
20 simply saying if you agree that the figures that are  
21 submitted in the "Company" column in the AFR are not the  
22 actual figures from the statutory accounts but are  
23 inflated figures, in the sense that there is an injected  
24 cost and also a grossing-up of R&D expenditure. Now,  
25 you agreed that that would understate the actual

1           profitability --

2           A. Of the company, yes. But I think 20 is talking more  
3           generically, I do not think it is talking about  
4           the company, it is talking about both. It is saying the  
5           answer is not 6 per cent. And then in paragraph (b) it  
6           is saying it should be between 17.3 and 18.5. And I am  
7           explaining that both of those answers can be true  
8           depending on how you account for things. If you want to  
9           account for it as a vertically integrated company where  
10          you include the profitability of the foreign entity  
11          then, yes, you will have to have a higher return. That  
12          is going to be higher than 6 per cent. I do not contest  
13          that.

14                 What I am saying is that the alternative exactly  
15          equal approach is to treat it as a UK entity and the  
16          profit that comes into -- the transfer price that comes  
17          into the UK is not only the manufacturing cost but also  
18          the profit. Right? So you are treating the profit  
19          already as a cost. If you treat the profit from the  
20          foreign entity as a cost within your cost stack then the  
21          right number to look at is 6 per cent.

22                 Just to show you back on Mr Williams' second report,  
23          table 2, just so I can explain my point in more detail  
24          so that we can see it, if we go to --

25          Q. I am going to come to your 4.7(2) so can we just take

1           that when I come to it.

2           So picking up on the vertical integration point, you  
3           make the point then in paragraph 4.7(1) that Flynn is  
4           not a vertically integrated company. So I think what  
5           you are saying is because it is not vertically  
6           integrated, the 6 per cent figure is relevant for it?

7           A. Yes.

8           Q. So your point is that we should not be trying to compare  
9           Flynn to vertically integrated companies?

10          A. Yes. It was not vertically integrated over the  
11          reference period.

12          Q. Right. Do you agree that if Flynn did become vertically  
13          integrated, it would then be eligible to take advantage  
14          of the transfer price rules in the PPRS?

15          A. If it became vertically integrated as a manufacturer?

16          Q. No, if it became vertically integrated by adding,  
17          for example, a procurement company up the train?

18          A. I do not think that that is the -- so again I am going  
19          to go to what the essence of the PPRS scheme says from  
20          an economic perspective versus what people can get away  
21          with, that would be a different thing.

22          THE CHAIRMAN: Are you telling us, Mr Harman, what the PPRS  
23          actually provides or what as an economist you think it  
24          ought to provide in that circumstance?

25          A. Yes, the latter.

1 MS BACON: Can we stick with what it does provide. Were you  
2 in court on Day 2 when I was making my opening  
3 submissions?

4 A. No.

5 Q. Did you see the transcript?

6 A. Yes.

7 Q. And did you see my transfer price diagram that I handed  
8 up to the tribunal?

9 A. Yes, I did.

10 Q. Would you accept that all else equal, and provided it  
11 was lawful, any rational company under the PPRS would  
12 take steps to make use of the various allowances in the  
13 PPRS such as the transfer pricing allowances?

14 A. I can only answer that from an economist's perspective  
15 of reading the scheme. And as an economist what I would  
16 say is the assertion is that the actual manufacturer  
17 would sell to the affiliate company, and obviously that  
18 would include its cost of sales and its profit and that  
19 would go to the purchasing company. So I understand  
20 that point. The second aspect that is being put to me  
21 in this example is that then the affiliated company  
22 could then sell to the UK with an additional profit  
23 contained within its transfer price.

24 My question as a matter of economics is: what is it  
25 claiming that profit for? Because as I understand the

1 essence of the scheme from an economic perspective, it  
2 said: we will allow you to take your manufacturing  
3 offshore and you should be able to have a profit for it.

4 As an economist, what I do not understand is why it  
5 would be permissible from an economic perspective to be  
6 able to include what would end up being a triple  
7 marginalisation point: the manufacturer gets his profit,  
8 the affiliate gets his profit, and then the UK entity.

9 But then there is one other aspect of the PPRS  
10 scheme that I think is interesting again from  
11 an economic perspective. It says that the transfer  
12 price has to be at arm's length, and it has to be at  
13 arm's length consistent with what you would provide to  
14 the tax authorities.

15 So what I cannot understand is how that affiliated  
16 company from a tax perspective would be able to claim  
17 a profit on activities that it did not actually incur.  
18 And that I think is the problem that I have as an  
19 economist reading the scheme. There is a different  
20 point as to whether companies could actually do it, and  
21 I cannot provide any evidence on that, whether that  
22 would be actually permitted within the framework.

23 Q. And that is Mr Williams' evidence as to what they  
24 actually do and what they can do?

25 A. Correct.

1 Q. So if we look at your paragraph 4.7(2), and I said I was  
2 going to come on to it and we are there now, you refer  
3 in lines 4 and 5 to the CMA's calculation of ROS and  
4 then in parenthesis you say:

5 "... which also allows affiliated company profits to  
6 be included within transfer prices."

7 We know there were not any transfer prices in this  
8 case, so do you agree that it is not quite correct to  
9 say that the CMA's calculation of Flynn's ROS allows  
10 affiliated company products within transfer prices?  
11 Because basically there were not any.

12 A. That is true, because it is actually buying from Pfizer,  
13 and the Pfizer return is in the transfer price. If in  
14 the scenario there was an affiliated company, and  
15 I think that you gave in your submission that you just  
16 passed through the calculation, so that if it bought at  
17 65 from the manufacturer and then passed 65 through to  
18 the UK entity, with no addition to it, then clearly the  
19 transfer price that the CMA has allowed is still 65. It  
20 is still includes a profit element within it.

21 Q. So if Flynn had bought Phenytoin from an affiliated  
22 company instead of Pfizer, and in your example buys it  
23 at X and sells it on to Flynn at X, the CMA's  
24 calculation, just focusing on what the CMA did, its cost  
25 plus analysis, that would not have included any extra

- 1 profit allowance for the transfer price, would it?
- 2 A. If you say that the manufacturer sells at 65 to the  
3 affiliated company who on-sells it at 65, then the cost  
4 of goods that the CMA has taken into account is 65.
- 5 Q. Right --
- 6 A. So it includes profit.
- 7 Q. The CMA's ROS and the CMA's cost plus analysis does not  
8 have this extra transfer price profit allowance, does  
9 it?
- 10 A. It does. It is in the cost of goods sold of its  
11 purchase.
- 12 Q. It does not take the transfer price profit out of the  
13 cost, put it in the allowable profit, add an extra  
14 margin of tolerance to it, does it?
- 15 A. No, that is correct. But what I have to say is if you  
16 think about the cost stack that has a level of cost and  
17 a level of profit if you take out the cost and add to  
18 the profit you end up in the same place which is the  
19 point I am saying at 4.7(2).
- 20 Q. Not if you add the margin of tolerance. Because if you  
21 add the margin of tolerance then you increase the  
22 allowed profit by 50 per cent in this case, and that was  
23 the point of my example that I worked through, and that  
24 was why I said it would be insane not to do a transfer  
25 pricing arrangement because even if you bought at X and

1           sold at X you would still, by doing the transfer pricing  
2           arrangement under the PPRS, get an extra 50 per cent on  
3           the profit element of the transfer price?

4           A. We have now moved to a second topic. Now we have moved  
5           to the margin of tolerance.

6           Q. No, I was asking you about your point that it is exactly  
7           the same as what you say the CMA allows the transfer  
8           price profit. And I am saying actually it does not,  
9           because the transfer price profit allowance in the PPRS  
10          includes the margin of tolerance which the CMA's  
11          calculation would not do.

12          A. I think -- how best to put this? I think whether the  
13          margin of tolerance should be allowed is a secondary  
14          question.

15          Q. Yes, I am going to get to that. I am just trying to  
16          work out how the transfer price profit works?

17          A. So there is a question as to whether we are looking at  
18          the 6 per cent as a reasonable return versus whether it  
19          should be 6 per cent and the margin of tolerance. And  
20          we will come to that.

21                 But as I understand it, the transfer price profit  
22                 also has a margin of tolerance attached to it. So the  
23                 manufacturer in a foreign jurisdiction is also allowed  
24                 to have a profit with a margin of tolerance. So from  
25                 an economic perspective, that margin of tolerance is not

1 for the UK entity, it is for the foreign entity, and it  
2 only comes up because we are looking at this now as  
3 a vertically integrated entity.

4 So as a matter of economics, I am trying to put  
5 where these profits are. Can they be in the foreign  
6 jurisdiction or should they be in the UK jurisdiction?  
7 But you do not see that in a vertically integrated  
8 because it all lands in the UK.

9 Q. But the margin of tolerance is something that is allowed  
10 for the UK SMDC in its profit calculation.

11 A. It is allowed when you consider the vertically  
12 integrated company.

13 Q. Yes, in a vertically integrated situation.

14 A. Correct. And I am saying you could either look at it in  
15 the PPRS world vertically, but it gives the same result  
16 as looking at it in the CMA's world of a cost stack  
17 analysis where the transfer price includes the profit  
18 allowance within the transfer price.

19 So the degree to which it purchases from Pfizer and  
20 it has a profit in it, and the degree to which that  
21 profit is above the 13 per cent, it could be any number,  
22 the profit could be 50 per cent. That is included in  
23 the CMA's analysis as actual, it is not hypothetical.  
24 It takes Pfizer's actual cost and actual profit, which  
25 could in the PPRS term include a margin of tolerance,

1 and it includes it in the cost stack.

2 My view therefore is that the CMA's calculation is  
3 entirely consistent with what the PPRS is trying to do.

4 Q. When you say halfway down 4.7(2):

5 "However, it would be inconsistent to compare  
6 a benchmark of 17 to 18 per cent (which excludes  
7 affiliated company profits included within transfer  
8 prices) ..."

9 I am a bit confused because your previous paragraph  
10 says that the 17 to 18 includes profits further up the  
11 chain. So perhaps if we just get rid of the language of  
12 "including" and "excluding", which I think is a bit  
13 ambiguous, do you mean here that the figures in  
14 the table, 17 to 18, are arrived at in part by removing  
15 a notional profit sum from the transfer price in  
16 the calculation of assessed costs?

17 A. Exactly.

18 Q. Would it be correct to say the basic point you are  
19 making in this paragraph is simply that 6 per cent is  
20 a local profit target, whereas the 17 to 18 takes into  
21 account to some extent, and with the other adjustments  
22 we have talked about, that there will have been transfer  
23 prices in the chain?

24 A. Correct. But the important thing to understand when you  
25 do that is that you can either look at it vertically,

1           you have to strip out the profit from the transfer  
2           price, which is exactly what Mr Williams' table shows  
3           happening, other costs reduce and then you include it in  
4           the allowance, or you include the transfer price within  
5           the accounts of the company as a cost and then you have  
6           to look at the 6 per cent. You cannot mix and match.

7           Q. So your point is you cannot just compare the  
8           profitability of Phenytoin with the profitability of  
9           vertically integrated companies that have benefited from  
10          all this set of allowances?

11          A. What I am saying is that when you look at Phenytoin's  
12          return of 6 per cent, and take a 6 per cent, it already  
13          includes the profit from the foreign entity. So you can  
14          do the analysis in two ways: the CMA could have said  
15          "Okay, we will adopt a PPRS methodology --"

16          Q. It did not do that, did it?

17          A. No, because it is not adopting a PPRS approach. The  
18          PPRS is just one input into its calculation of  
19          a reasonable return. It does not set out to apply the  
20          PPRS. But the CMA could have done that, it could have  
21          allowed them an 18 per cent profit margin but if it did  
22          so it would have reduced the cost of goods sold coming  
23          into the calculation and that would have given them the  
24          same result.

25                 There is no magic to it. I think there was a table

1           that you showed in your opening that clearly shows that  
2           you take the manufacturing cost, you take off the  
3           profit, and then you take it over to the other side of  
4           the equation and add it on to profit, allowed profit.  
5           There is no jiggery pokery, it is a simple debit and  
6           credit: you take it out of cost and you put it into  
7           profit. You come to the same position.

8           Q. As I said, that also includes the MOT and we will come  
9           on to that. But your point is you cannot compare  
10          Phenytoin in its business with the overall situation of  
11          vertically integrated companies that would have  
12          benefited from those transfer pricing allowances and the  
13          other adjustments?

14          A. That is part of the argument. The second part of the  
15          argument is a consistency argument.

16          Q. But this point about not comparing Phenytoin with  
17          a vertically integrated company, is that not  
18          Mr Williams' point? Are you not in violent agreement  
19          about this? He says the PPRS cannot be an apt  
20          comparator because it covers companies with  
21          fundamentally different business structures and cost  
22          models to Flynn. And your point is that Flynn equally  
23          cannot be compared with vertically integrated companies?

24          A. No, I think that is not the point. What is the PPRS  
25          covering in the UK? It is covering sales, marketing and

1 distribution companies on which it should be allowed  
2 a 6 per cent return and that is exactly what Flynn is.  
3 The manufacturing element is overseas.

4 It would be completely wrong if I said let us look  
5 at the PPRS as an integrated entity, include all the  
6 manufacturing, then clearly Flynn would not be  
7 comparable to that entity because it does not have any  
8 manufacturing, so its result would have to be much lower  
9 than 17 per cent because you are not getting a return on your  
10 manufacturing.

11 MS BACON: I am now going to move on to a different topic.

12 THE CHAIRMAN: Can I just ask you, Mr Harman, I think you  
13 said early on in discussion of this topic that the  
14 transfer price would be set having regard to the  
15 requirements of tax law.

16 A. Yes.

17 THE CHAIRMAN: I think you also said that manufacturing had  
18 been moved overseas.

19 A. Yes.

20 THE CHAIRMAN: Essentially for tax planning reasons. Is  
21 that absolutely right? I thought also there must be  
22 cost reduction aspect to it as well given the high price  
23 of manufacturing here, or at least historic high pricing  
24 of manufacturing, would you agree with that?

25 A. I think that is true. I think that when you get into

1 the dealings with HMRC as to what profits you are  
2 allowed in the UK, it is not just about the cost  
3 savings, it also about them understanding that you are  
4 taking your activities to different jurisdictions.

5 THE CHAIRMAN: Yes, both HMRC and the Department of Health  
6 have common interests in the sense that I am sure they  
7 would both like everything to be done in a way that  
8 bears some relation to reality. I say that with some  
9 care. But the actual policy objectives of tax policy in  
10 this area and the PPRS are slightly divergent, are they  
11 not, because the PPRS is just trying to pay less, the  
12 Government trying to pay less, and tax would say, well,  
13 if you have done something in the UK then that should be  
14 recognised. There should be higher returns.

15 A. Yes, I do not disagree with that. There is that  
16 tension. But it does still come back to the transfer  
17 price which I think is set out in section 8 of the  
18 scheme and it makes very clear that it has to be at  
19 arm's length.

20 THE CHAIRMAN: Nobody quite knows how long an arm is, do  
21 they?

22 A. I think HMRC knows how long it should be.

23 THE CHAIRMAN: They certainly have their opinion. So that  
24 is the common point.

25 A. Yes.

1 THE CHAIRMAN: Thank you. Sorry, Ms Bacon.

2 MS BACON: One last question on that. Have you looked at  
3 how many companies within the PPRS are stand-alone  
4 companies like Flynn without any vertical integration?

5 A. I have not.

6 Q. So there might be none?

7 A. No companies like Flynn?

8 Q. It could be the case -- this is what I am putting to  
9 you -- that of the companies that submit AFRs and whose  
10 profitability is assessed under the PPRS, there is not  
11 one that is in the position of Flynn?

12 A. I do not know the answer to that.

13 Q. Can we go back to your first report and look at  
14 paragraph 4.70. This is the section of your report  
15 where you are talking about the relevance of the  
16 proposed comparators. You have made the point in 4.68,  
17 a point we have already explored this morning, that you  
18 think the competitive level of return depends on the  
19 required level of investments and risks. And then you  
20 say:

21 "Whether a generic firms earns higher than a branded  
22 firm will be influenced by this practice ..."

23 And so on, and we have explored the extent of your  
24 expertise on that.

25 But then you say at 4.70, the last three lines:

1           "Flynn in the case of Phenytoin is not acting in the  
2           usual capacity of a generic drug manufacturer."

3           We obviously know that Flynn is not manufacturing  
4           the drug, so are you just saying here that it is not  
5           acting in the usual capacity of a generic drug supplier  
6           because it has taken over the distribution of a drug  
7           that was branded?

8           A. Correct.

9           Q. So we should just substitute "supplier" for  
10          "manufacturer" here?

11          A. It is also true they are not acting as a drug  
12          manufacturer.

13          Q. On that we are in agreement, Mr Harman.

14          Have you done any research into the extent to which  
15          generic companies enter into this sort of arrangement?

16          A. Which sort of arrangement?

17          Q. The sort of arrangement Flynn has with Pfizer which you  
18          say is not usual.

19          A. No.

20          Q. So you do not have any empirical basis for suggesting  
21          that this is unusual?

22          A. I think it was the evidence of Mr Ridyard last week when  
23          he was looking at AEDs and the prices of those AEDs, and  
24          it was put to him whether it was relevant to look at the  
25          prices of originators --

1 Q. Are you giving your evidence or are you recounting what  
2 the CMA's counsel put to Mr Ridyard?

3 A. I am going to say that he indicated that he thought that  
4 the distinction between branded and generics was not  
5 clear in the way in which it had been asserted and that  
6 he thought from an economics point of view that this  
7 looked more like an originator branded good. As  
8 an economist that is a position that I agree with.

9 So what I am talking about in this section is that  
10 the drug was within the PPRS, it has been genericised,  
11 obviously it is a generic drug but it is still  
12 quasi-branded and not much has changed.

13 So my point only is that when I think about  
14 the economics of this drug, is my first instance to  
15 believe this is more like generic or more like branded?  
16 I believe it is more like branded as a starting  
17 position.

18 Q. You have done no empirical testing to verify whether  
19 this is usual or not, have you?

20 A. No empirical analysis.

21 Q. You have seen Mr Davies does give evidence about Flynn's  
22 activities, and he gives evidence about whether Flynn's  
23 activities are comparable to those of companies  
24 supplying unbranded generic medicines. You have read  
25 that evidence, have you not?

- 1 A. Yes.
- 2 Q. His evidence is that --
- 3 A. Which paragraph?
- 4 Q. If you want to look at it, it is tab 5 in bundle D. The  
5 main section of this, he starts at paragraph 16,  
6 "Activities and risks of companies supplying unbranded  
7 medicines". And the main paragraphs that I am thinking  
8 of now are 23 to 29 and he says in summary at  
9 paragraph 29:
- 10 "The activities and risks incurred by Flynn are  
11 typical of any other company supplying generic  
12 medicines."
- 13 I think you agree you did not have industry sector  
14 expertise. Do you have any reason to doubt what he is  
15 saying as a matter of sector-specific evidence?
- 16 A. No. I said quite clearly that I take the risks as they  
17 have been presented. I am not saying this is  
18 a risk-free business. Obviously it is not. But I did  
19 explain why I think that these risks do not appear to be  
20 high.
- 21 Q. I would like to go to your explanation now. You have  
22 dealt with this in more detail in your second report at  
23 paragraph 4.12. This is where you expand on your  
24 comments about the relative riskiness of Phenytoin  
25 compared to other generic products, and you say

1           Phenytoin in your view has relatively lower risks for  
2           various reasons.  If we start with number one, and  
3           remembering what we are doing here, you are giving  
4           reasons why you do not think it is appropriate for the  
5           ROS rates of other comparator generic companies to be  
6           used as a comparator for Flynn, so remembering what we  
7           are doing here, you say at subparagraph (1):

8                     "A new generic drug faces uncertainty about whether  
9                     it will receive regulatory approval."

10                    But given that the point we are testing here is  
11                    looking at the ROS rates of other comparator generic  
12                    companies, what we are doing is comparing Phenytoin with  
13                    the profitability of drugs that have been approved and  
14                    are on the market, are we not?

15           A.  No, not quite.  So this is where I say that I am able to  
16           interpret this.  When the generic company launches, it  
17           faces a risk that it will not be approved, and because  
18           it faces that risk --

19           Q.  Sorry, it cannot launch until it has been approved can  
20           it?

21           A.  Before it launches it takes a risk, it has to make  
22           investments.  It makes investments potentially in  
23           the manufacturing of the drug.  So I think that in the  
24           CMA's document there is evidence that NRIM took six  
25           years and had costs to manufacture.  So as an generic,

1 if you are entering into a industry and there is a risk  
2 ultimately that you will not be approved, then you need  
3 to have a return on that investment in case it turns out  
4 that you did not gain regulatory approval. So you face  
5 an ex ante risk that the risk may occur, and because it  
6 may occur you demand a higher return and that return has  
7 to be recovered over the period after approval,  
8 obviously.

9 Q. So your point is that built in to the ROS rate of  
10 a generic company is an extra rate of return to take  
11 account of the risk that has not materialised, that the  
12 company that has been put on the market would not have  
13 got approval. Does that make sense?

14 A. I am not sure that summarises it quite. What I am  
15 saying is it is called an ex ante risk. In an ex ante  
16 risk of something not occurring, under the scenario  
17 where you do recover the -- where you do get regulatory  
18 approval, you earn a higher return. It is called a fair  
19 bet principle. Ofcom talks quite a lot about this,  
20 about products are about to launch, they need a higher  
21 return over their life, because there is a risk that  
22 the new product will fail. That is standard finance.

23 Q. So you say that the possibility of the product not being  
24 authorised should lead the company to charge a higher  
25 ROS -- get a higher ROS on the product that was actually

1           authorised?

2           A. Yes. In essence what somebody does when they make  
3           an investment, they will have a number of probabilities.  
4           They will have a probability that it is successful and  
5           they will have a probability that it is not successful.  
6           And they will run two sets of cashflows, they require  
7           a return on the combination of those two. Obviously we  
8           only observe ex post one of those scenarios, either  
9           failure or success. But in the success you do need to  
10          recover the cost and the chance that it may have been  
11          a failure and that is what I am saying is standard  
12          finance theory.

13         MR LOMAS: Would they run two sets of cashflows or would  
14          they have one cashflow and adjust the discount rate to  
15          take account of the risk of failure? Would it come to  
16          the same thing?

17         A. Yes. The purist would say you do not know what the  
18          fudge factor is, so you could adjust the discount rate,  
19          but how do you know how much you have to do it? So the  
20          cashflows gives you a little more specificity around how  
21          much that risk might be and that is, as I say, pretty  
22          standard in investment appraisal.

23         MS BACON: So are you saying that across a company's  
24          portfolio it will have to add some ROS to take account  
25          of the risks of products that it never got approval for?

- 1 A. That is standard finance theory.
- 2 Q. How is Flynn different from any other generic company in  
3 that respect?
- 4 A. Because in this instance it did not face that regulatory  
5 risk.
- 6 Q. Yes. But if you are saying that one does it across the  
7 portfolio, because of course you only do it in respect  
8 of the products that you have actually launched, then  
9 Flynn is exactly the same, is it not, because it has  
10 a risk that it might take on a product that does not get  
11 approval?
- 12 A. No, I think what we are saying is that the product, if  
13 you have a subset of products, some of them are going to  
14 fail and some are going to be successful. Of the ones  
15 which are successful, they have to recover the chance  
16 that that particular drug would have been unsuccessful.
- 17 Q. But you have to recover your investment across your  
18 portfolio, do you not?
- 19 A. But what I am saying is that that is built into every  
20 successful drug. Every successful drug has the chance  
21 that it may not have been successful.
- 22 Q. So there is a level of uncertainty, you are saying, in  
23 relation to every generic product? Is that not what  
24 Mr Davies was saying?
- 25 A. I am not sure. He is saying that there is regulatory

1 approval, there is an uncertainty in that, and I am  
2 saying that that is not an uncertainty that faced  
3 Phenytoin so it does not need a return that it would not  
4 have received regulatory approval. It already had it.

5 Q. Okay. So you say that when we look at other generic  
6 comparators, we cannot use those as a comparator for the  
7 ROS for Flynn because those generic comparators will  
8 have had some products that did not receive regulatory  
9 approval and, in order to compensate for that, they have  
10 to make an extra ROS?

11 A. I am saying that there are going to be businesses that  
12 run risks of not receiving regulatory approval, and  
13 therefore they will have higher risks compared to the  
14 specific risk profile of Phenytoin.

15 Q. So you say Flynn was not entitled to take that into  
16 account in relation to Phenytoin despite the fact that  
17 it also faces that kind of risk on other products,  
18 presumably?

19 A. But it would be recovering those risks through its other  
20 product already. So Phenytoin is a new product that  
21 comes into the marketplace, it already had a portfolio,  
22 it would have already been recovering that risk from its  
23 other products.

24 Q. And that is not a factor that one could take account of  
25 just by doing an adjustment up or down, like you suggest

- 1           for the PPRS?
- 2       A. No, I think that you can. It is a qualitative factor.  
3           You would be saying this is a qualitative factor that  
4           takes you downwards rather than upwards.
- 5       Q. This is one of your reasons for dismissing generic  
6           comparators a priori, is it not?
- 7       A. I am saying it is likely there is going to be a set of  
8           generics that faced that risk which means that it is  
9           going to have a higher observed rate of return and you  
10          have to move downwards from that. My point is if you  
11          have already got a 6 per cent, you can move down from  
12          6 per cent, you do not have to move down from the higher  
13          comparator.
- 14       Q. So you use that to dismiss the comparator.
- 15                Let us move on to subparagraph (2). This is  
16                a similar point, is it not:
- 17                "A new generic drug faces uncertainty about  
18                the market share it may win."
- 19                But you say that Flynn had reduced commercial risks  
20                because of the continuity of supply principle. In this  
21                case you know, do you not, that Flynn lost a large  
22                amount of market share to NRIM?
- 23       A. I know that it did, and I know that there are facts  
24                behind that --
- 25       Q. I am not going to ask you about that.

1       A. But I think there is a second point here. A new generic  
2       firm when it enters has no customers, so it faces  
3       a different risk profile of gaining some customers.  
4       Here Flynn already had a captive base and I think that  
5       is different. Starting with lots of customers versus  
6       starting with no customers is a different risk.

7       Q. And what we saw is that Flynn, on the product on which  
8       it competed with NRIM, had broadly the same volumes  
9       within a certain amount of time, did not we?

10      A. I know that it lost market share when there were issues  
11      with the continuity of supply.

12      Q. And you have not been asked to give evidence about the  
13      continuity of supply principle, have you? That is  
14      outside the scope of your evidence?

15      A. No, but it is a fact that I rely on in evaluating the  
16      risk.

17      Q. Do you agree that the point about competitive  
18      uncertainty is covered by Mr Davies in the paragraphs we  
19      were just looking at?

20      A. I seem to remember, yes.

21      Q. We do not need to go back to them. And you have agreed  
22      that you do not have industry-specific expertise to  
23      rebut his industry-specific evidence on that point?

24      A. As I said, I do not have industry expertise to develop  
25      what the entire set of risks are. Based on the facts

1           that I see, I am able to put a qualitative  
2           interpretation of whether that means a return should be  
3           higher or lower, as simple as that.

4       Q.   Your subparagraph (3), you say halfway down:

5                   "I consider it reasonable to assume that new generic  
6           versions of the drug would have less evidence on the  
7           benefits and side-effects which might influence product  
8           demand."

9                   Do you know how a generic drug is approved?

10      A.   No.

11      Q.   So you do not know that the generic authorisation of  
12           a drug would be based on the safety and efficacy of the  
13           reference product?

14      A.   That is true.

15      Q.   What, you do not know it, or that you agree with my --

16      A.   I agree with your proposition.

17      Q.   So you therefore know that the whole point of a generic  
18           authorisation is that the generic company does not need  
19           to do its own safety and efficacy testing?

20      A.   No, that is true, but I am responding to Mr Davies'  
21           evidence that there is a risk of these drugs having  
22           problems, and my only point is that it is less likely  
23           for Phenytoin as that has had a very long track record.

24      Q.   I am just looking to your second sentence in  
25           paragraph 3:

1           "I consider it reasonable to assume that new generic  
2 versions of the drug would have less evidence on the  
3 benefits and side-effects which might influence product  
4 demand."

5           And you are comparing that with Phenytoin's track  
6 record. So if this is a point about generic  
7 comparators, what you are trying to say is that if there  
8 is a new generic version of something, there would be  
9 less evidence of benefits and side effects. And I am  
10 just saying if you have a generic product, by definition  
11 you do not have to do your own safety and efficacy  
12 testing because you have exactly the same safety and  
13 efficacy evidence as the reference product. That is how  
14 a generic drug is approved, is it not?

15       A. I think that is right. But as I am saying I am replying  
16 to Mr Davies' paragraph at 28 where he is talking about  
17 there can be serious adverse quality issues. And as  
18 I understand it, whilst that might be a risk for  
19 everyone, I understand that Pfizer has provided  
20 an indemnity to Flynn for those types of risks. And if  
21 that is true, if they have an indemnity, all other  
22 things being equal, that is a qualitative factor that  
23 means they would have less risk.

24       Q. You are not talking about the indemnity in this  
25 paragraph. Mr Davies is making a quite different point

1 in paragraph 28. He is saying the company is  
2 responsible for the quality of the product and  
3 compliance with regulations. Those are risks borne by  
4 the marketing authorisation holder, and that is one of  
5 the points on which he says Phenytoin is exactly the  
6 same as other generics, and your response is to say new  
7 generic versions of the drug -- and I will come on in  
8 a minute to what you mean by "the drug", but new generic  
9 versions would have less evidence on benefits and  
10 side-effects which might influence product demand.  
11 Again, this lowers the competitive risk Phenytoin faces.  
12 Are you talking about NRIM there?

13 A. I think I am talking about generic drugs in general.

14 Q. So you are saying new generic versions of products will  
15 have less evidence of benefits and side-effects. How  
16 does that affect the validity of generic products as a  
17 comparator, which is what we are talking about here?

18 A. If it is factually true that they have less of a track  
19 record, that is obviously going to be in the minds of  
20 the people who are taking those drugs.

21 Q. I think you have just agreed that you do not need to  
22 have a track record because a generic is a copy of  
23 a reference product which does have the track record and  
24 has all the safety and efficacy data in the dossier?

25 A. That is outside of my expertise.

- 1 Q. So can we just put this point out the window?
- 2 A. It is outside my expertise, so I do not know.
- 3 Q. Paragraph 4 then:
- 4 "Pfizer suggests that the increase in the price of
- 5 Phenytoin clearly created opportunities for generic
- 6 entry."
- 7 You seem to be talking about generic versions of
- 8 Phenytoin capsules here?
- 9 A. Yes.
- 10 Q. But Flynn has not used NRIM's capsules as a comparator,
- 11 have they?
- 12 A. No, that is true.
- 13 Q. So if we just strike a line through subparagraphs (3)
- 14 and (4). Then you are left with subparagraphs (1) and
- 15 (2) and I have explored those with you. You are saying
- 16 that uncertainty about regulatory approval and
- 17 uncertainty about market share are the reasons why one
- 18 can completely reject a generic comparator a priori?
- 19 A. No, it is not quite that. Because the decision also
- 20 talks through a whole range of different risk factors.
- 21 Mr Davies has concentrated on a subset of those. So my
- 22 analysis is also based on that. It is not just about
- 23 risk, it is also about level of investment, and various
- 24 of the witnesses talk about other generics requiring
- 25 investment. I have to go back to my conceptual

1 framework; that it is not just about risk and return, it  
2 is also about volume and the level of unit costs. So if  
3 I do not have information on all of those, then I have  
4 no basis on which to look at those comparators and say  
5 that they would be meaningful. They may be meaningful  
6 but I have no idea if they are.

7 If they all came in with a very narrow set of  
8 percentages, they were all at 21 per cent, then I would  
9 say that would be fair evidence. But they do not, there  
10 is a massive spread of percentages. Which means  
11 something must be driving profitability. It is either  
12 investment, it is either risk, it is either unit cost or  
13 it is volume and, if I do not have all of those  
14 dimensions, I cannot use them as a comparator.

15 Q. Or could this mean that the profitability of generic  
16 products just does not conform to your neat conceptual  
17 analysis?

18 A. In a competitive market I think businesses conform to  
19 the conceptual framework.

20 Q. But these are not perfectly competitive markets, are  
21 they?

22 A. I did not say "perfectly competitive", I said  
23 "competitive".

24 Q. So you have not done any analysis of the extent to which  
25 generic markets generally correspond to that framework?

- 1           You are just assuming, are not you?
- 2           A. The theory of finance is applicable everywhere. Finance  
3           theory is finance theory. In a sufficiently competitive  
4           market, competition constrains people to their cost of  
5           capital. If they are not -- and that is not to say you  
6           cannot earn above an average return. There may be  
7           temporary periods in which you do and, if you had some  
8           special advantage like lower costs, then you may be able  
9           to extract that from the marketplace as well. But the  
10          general view in competition economics is that, in the  
11          long-term, you would expect industries to conform with  
12          some kind of normal profit, assuming a competitive  
13          equilibrium. If there are drugs out there that have  
14          high returns, then it might not be in a competitive  
15          market but remember one of the issues here is that  
16          the problem with the return on sales figure is that it  
17          is biased by this issue of volumes and unit costs.  
18          So you cannot quite simply look at a return of  
19          say 20 per cent and say that is applicable --
- 20          Q. Mr Harman, I am going to come to that. I am going to  
21          come to that.
- 22          A. That is an important point though.
- 23          Q. Can I take you back to paragraph 4.73 of your first  
24          report. These are some more reasons why you do not  
25          think generic comparators are relevant. This is to some

1 extent submissions, but I note that in the subparagraphs  
2 of 4.73 you refer to various differences in the  
3 comparators that have been put forward, such as the fact  
4 that some of the companies in the sample sets have UK  
5 manufacturing?

6 A. Yes.

7 Q. One of companies has a portfolio that includes patented  
8 products?

9 A. Yes.

10 Q. Some of the proposed comparator companies engage in  
11 product development?

12 A. Correct.

13 Q. Did you carry out an analysis of the extent to which any  
14 of those factors applied to the branded products covered  
15 by the PPRS?

16 A. We know that under the PPRS the manufacturing is  
17 unlikely to be an issue because that is going to be  
18 a foreign subsidiary taking advantage of the transfer  
19 price. If it did include it, then that would mean that  
20 it had a higher return, and we are saying it should be  
21 lower than that higher return. So I think that it is  
22 also true that we know that the PPRS includes patented  
23 and innovative drugs. So we know that. And if you are  
24 not patented, which allows you to earn a supernormal  
25 profit for a period of time once you are under the

1 protection of the patent, we know that it is likely that  
2 Flynn will have a lower return because it is not  
3 patent-protected and we do know that there is obviously  
4 going to be research and development, because the PPRS  
5 scheme allows for research and development.

6 So I think it is fair to say that these factors  
7 allow us, on a qualitative assessment, to believe that  
8 the return should be lower than the average. I cannot  
9 say how much lower than the average, but I think that it  
10 is a fair assumption.

11 Q. I was just asking you whether you had analysed whether  
12 those applied to branded products and you said that at  
13 least for patents and product development that is  
14 something that would apply under the PPRS. But you have  
15 put this forward here as a reason for rejecting the  
16 comparison. Does it not also stand to reason that, if  
17 this is a reason for rejecting the comparison with  
18 generic companies, it should also have been a reason for  
19 rejecting the comparison with the PPRS?

20 A. No, I think it is a slightly more nuanced point than  
21 that. If I have two comparators, one is 6 per cent, and  
22 let us say that we look at generics and they are  
23 10 per cent, if we do an analysis, qualitative analysis,  
24 that says: do I believe the risk is lower than these two  
25 benchmarks, and we assume in my scenario here that they

1 are less than, I do not need to consider the generics  
2 because I already have a lower benchmark and I know that  
3 it is going to be lower from that benchmark. The  
4 problem with taking the generic benchmark is how far  
5 lower do you go. I think that the PPRS scheme gives us  
6 potentially an anchor point to say: I am not going to  
7 start at the generics and go lower, I am going to start  
8 at the PPRS and go lower. I think that is the  
9 difference.

10 Q. But was it not that, if you had started with the  
11 generics and gone lower, you would have been starting at  
12 a much higher starting point?

13 A. But this is my point. I say that, when I look at the  
14 ROS percentage analysis that has been presented by  
15 Mr Davies and Mr Williams and CMA, I see that there is  
16 a fantastic dispersion of results. There are clearly  
17 results that are below 6 per cent and there are clearly  
18 results which are very high. The problem is: how far  
19 lower do you go, given that dispersion.

20 Q. How many results below 6 per cent did you see in  
21 Mr Williams' and Mr Davies' comparators?

22 A. Just off the top of my head, for Mr Davies I think  
23 three.

24 Q. And average rates?

25 A. The average rates, as I have explained, are highly

- 1 dependent on the level of volumes and unit costs.
- 2 Q. But you did not do that for the PPRS, did you? You did  
3 not say the PPRS ROS was dependent on volumes and unit  
4 costs, you are using an average. So why can you not use  
5 a generic average?
- 6 A. Because what we are saying here is that we know that  
7 Phenytoin has a profile that is high unit costs and high  
8 volumes. Qualitatively that takes me lower than the  
9 6 per cent. The problem is, if I am dealing with  
10 generics that have low unit costs and low volumes, then  
11 that is going to inflate the ROS too far away, because  
12 it is being influenced by these two critical factors.
- 13 Q. You do not know that the generics do have low unit costs  
14 and low volumes, do you? You are making an assumption  
15 that you have not tested because you have not looked at  
16 the portfolios of those companies?
- 17 A. We have tested Flynn and we can see on Flynn's analysis,  
18 when we control for unit costs and we control for  
19 volumes, Phenytoin is a complete outlier.
- 20 Q. I am going to come to your outlier analysis. I am  
21 sticking with the ROS benchmark. We have not finished  
22 with that point. I am asking you why, if you have so  
23 many concerns about comparability that you dismiss the  
24 generic as starting point, you then do not apply any of  
25 those concerns to PPRS. But you have given your answer

1           and the tribunal has heard it. Can we move on to  
2           paragraph 4.74.

3           PROFESSOR WATERSON: Just before we go there, just a  
4           terminological point. You sometimes say "I" and you  
5           sometimes say "we". When you say "we", do you mean you  
6           and people who have been working under your direction?

7           A. Correct.

8           PROFESSOR WATERSON: Thank you.

9           THE CHAIRMAN: Could I just ask something just before lunch.  
10          Ms Bacon is putting questions to you about whether you  
11          are right in your opinion not to regard what she and her  
12          client are putting forward as good comparators as good  
13          comparators. That is what this section of the  
14          cross-examination is all about. I think my impression  
15          from some of your answers is that one of the reasons you  
16          have not regarded them as good comparators is you do not  
17          have enough information about the characteristics of the  
18          company or the product that is being put forward as  
19          a comparator. Is that right?

20          A. That is correct.

21          THE CHAIRMAN: You are obviously giving evidence as  
22          an expert after the event.

23          A. Yes.

24          THE CHAIRMAN: You did not take the decision. You are  
25          commenting on the decision --

1 A. Correct.

2 THE CHAIRMAN: -- and how we should view the situation now.

3 I have to confess when people say "I do not have enough  
4 information" my initial reaction usually is to say:  
5 "well, why do you not go and get the information and  
6 then you will be able to say I have looked at the full  
7 characteristics and they are not comparable." Would you  
8 regard that as a more satisfactory position to take,  
9 rather than ruling out going down the comparator route  
10 in respect of those products because you do not have  
11 enough information.

12 A. Yes, I think that is a fair point. I think I have a few  
13 responses to that. I think the first point was a matter  
14 of instruction; that I am looking at the evidence after  
15 the decision has been made and after the appellants have  
16 given evidence, and my instruction is to look at what  
17 has been presented and see whether I think there is  
18 information in there that would disagree with the  
19 6 per cent. So that is a matter of instruction. I am  
20 not taking that as any protection --

21 THE CHAIRMAN: No, I understand that point.

22 A. I am not taking any protection from it.

23 THE CHAIRMAN: And you are not under attack, Mr Harman.

24 I am just trying to put this point to you.

25 A. But my second point is that I find, in my experience,

1 doing robust comparator research very, very difficult.  
2 I have just done something down in South Africa on the  
3 private healthcare inquiry down there where they looked  
4 at hospitals globally, and the problem is that as soon  
5 as you get into -- and we had much more information than  
6 we do here, the degrees of comparability are so immense  
7 that nothing meaningful could come from it, and we spent  
8 a lot of time trying to do this. It is genuinely very  
9 difficult to (a) get the information. Because what  
10 would it require? It would require me to go to one of  
11 these companies and say: I want information on all of  
12 your products, all of your costs, I want to understand  
13 the risk profiles, and it becomes fantastically  
14 difficult.

15 So to answer the question, I think it is very  
16 difficult to do. I think that if I set out to do it,  
17 I would probably come up with "these companies are not  
18 comparable", and, if that was the case, I would try to  
19 align on other types of profitability percentage  
20 information that might tell me something about the  
21 overall level of return. What can be done more easily  
22 is a return on capital employed approach, which is  
23 a cross-check that I applied and I do think that that  
24 provides some additional information here that is  
25 slightly more robust than --

1 THE CHAIRMAN: I was not getting into the merits of your  
2 evidence. I was just exploring that question. So  
3 I suppose it could be said that maybe the competition  
4 authority might be in a better position to obtain that  
5 sort of information that you say is difficult and  
6 frustrating to try and get.

7 A. I think it would have been possible. I do not know from  
8 a logistics perspective how the CMA could have done it.  
9 I think that is a reasonable statement. But I would  
10 also say that the experts on the other side who have  
11 much more detailed knowledge could have provided one or  
12 two additional points that might have assisted. So in  
13 my first report and in my second report, which were  
14 replied to, I said the problem with my analysis of the  
15 generics is that I have no information on the types of  
16 drugs, investment and risk profiles and I think, if  
17 an industry expert had said something more definitively  
18 on the portfolio, that might have been of assistance to  
19 the tribunal.

20 THE CHAIRMAN: I think we might pause and come back at  
21 2 o'clock.

22 (1.04 pm)

23 (The short adjournment)

24 (2.00 pm)

25 MS BACON: Mr Harman, we were just coming to the end of the

1 section of my questions on generic comparators and  
2 I wanted to cover off a couple of last points with you  
3 on that.

4 Can you take up your first report and look at  
5 paragraph 4.74.

6 A. Yes.

7 Q. Your point in that paragraph, as I understand it, is  
8 that companies might not account for the measurement of  
9 costs in the same way?

10 A. Yes.

11 Q. The one example you give is how companies value stock?

12 A. Yes.

13 Q. Have you reviewed the accounting policies in the  
14 published accounts of the various comparators to assess  
15 if there is a difference?

16 A. No, I have not.

17 Q. Have you calculated how much of a difference different  
18 methods of valuing stock might make to a calculation of  
19 return on sales?

20 A. In this context, no.

21 Q. Would you accept that even if there are different  
22 valuation methods, the effect on operating profit over  
23 the year would most likely be irrelevant as long as they  
24 had consistent stock valuation qualities at each  
25 year-end?

1 A. I am not sure that necessarily follows. I would need to  
2 see the empirical evidence to see if that was the case.

3 Q. My point is would not it just come out in the wash? As  
4 long as you adopted the same methodology throughout  
5 year-on-year, then --

6 A. No, I think --

7 Q. -- you would not see a material difference?

8 A. I think the simple point I am making is let us say there  
9 were just two comparators and they had different stock  
10 valuation methodologies, those stock valuation  
11 methodologies would produce different values, we are  
12 measuring stock at year end and this is a balance sheet  
13 item, it is not a movement between the period. If there  
14 were different stock valuation methodologies, which  
15 I know that there are, then that would bias the  
16 results. It is not a major point, the point about  
17 standardisation of accounting data, I would say the  
18 bigger point is when you start to look at gross profits  
19 versus direct costs because where you account for costs  
20 in that mix really does matter.

21 Q. Have you made any attempt to ascertain whether those  
22 concerns might also apply for companies that submit AFRs  
23 under the PPRS, or indeed any companies under the PPRS?

24 A. No, I have not. But the PPRS is a very large data set,  
25 so if you are looking at stock valuations over a larger

1 data set then to some extent these things all average  
2 out.

3 Q. So if you take a sample of more than one and just look  
4 at a bunch, then the more grapes you have in the bunch  
5 the more even the bunch is going to be, is that your  
6 point?

7 A. Yes.

8 Q. Whatever your various concerns about the generic  
9 comparators, and we have looked at those, is it your  
10 evidence that a comparison with the ROS rates of generic  
11 companies is completely uninformative to the CMA's  
12 analysis?

13 A. Yes, I think because of the distribution of results that  
14 we see from quite low to very high, then I have  
15 a concern that there is something that is driving those  
16 returns which means that the average is not necessarily  
17 going to be comparable. If you are below the average on  
18 your risk investment then observing average is not going  
19 to tell you anything.

20 Q. So your main concern is that because of the observed  
21 variation, you think that there is something in that  
22 that is driving the variation but you do not know what  
23 it is?

24 A. It is one of four factors. There's level of risk, level  
25 of investment, level of unit costs and level of volume.

- 1 Q. Or it could just be that generic comparators do not  
2 conform to your analysis?
- 3 A. It is true that if there was a niche comparator,  
4 Mr Davies talks about niche comparators in his report.  
5 If there are barriers to entry and you are a niche then  
6 you may have very high profitability. I do not think  
7 that would necessarily be a good comparator because of  
8 barriers to entry, and this is what we are trying to  
9 abstract away from, what is a return in a competitive  
10 market.
- 11 Q. And in the PPRS, have you done any analysis of the range  
12 of ROS rates within a PPRS?
- 13 A. No, I do not have access to that data.
- 14 Q. So it could be the case that actually exactly the same  
15 is true of a company that is filing an AFR, that some of  
16 its products will be very profitable and some will be  
17 less profitable?
- 18 A. I think that is exactly the point that is made in my  
19 report. It is likely there is a range around the  
20 average, and when we do our qualitative risk analysis,  
21 what we believe, that is FTI, is that the return is  
22 lower than the average.
- 23 Q. So it is okay for there to be a range in the PPRS  
24 because you look at the average, but it is not okay for  
25 there to be a range in generics because ...?

1           A. Because of the point that I made this morning. If the  
2           generic benchmark is above the branded benchmark, and  
3           you believe that on a qualitative assessment that it is  
4           below both of those, it follows that it is going to be  
5           below the branded. So you only need to look at the  
6           branded if you believe the risk investment return  
7           profile leads you to a conclusion that it is less than  
8           6 per cent.

9           Q. Or it could be one of two things: that the generic  
10          return is generally above the branded, or it could be  
11          that the branded is not 6 per cent?

12          A. In respect of the first, I am not sure that is the case.  
13          Mr Ridyard presents evidence that he believes that  
14          generic profitability is likely to be below, Mr Davies  
15          does an analysis where he says they are likely to be the  
16          same, and Mr Williams makes an assertion that generics  
17          is likely to be above.

18                 I started this morning by saying I have no belief  
19          beforehand that branded is likely to be more or less  
20          profitable than generic on a like-for-like basis. You  
21          will have high profitability branded goods and you will  
22          have low branded goods and you will have low generic and  
23          high generic.

24                 It is an empirical question, but if it holds that  
25          the risk investment profile for Phenytoin is less than

1           the PPRS benchmark, then I do not need to go to look at  
2           generics because I have already started from the right  
3           starting point.

4       Q.   So it is an empirical question but that is not the  
5           empirical analysis that you have done, is it, because  
6           you said you did not do an empirical analysis?

7       A.   We start from when we are looking at the PPRS and we do  
8           an assessment on a qualitative basis, whether it is  
9           likely to be below or above.

10      Q.   Can I go to your ROCE cross-check. I will pick this up  
11           starting off with your first report at paragraph 4.7,  
12           then we will look at the second report.

13      A.   First report, 4.7, did you say?

14      Q.   Yes.

15      A.   Is that the right reference, 4.7?

16      Q.   4.7:

17                 "From this it is possible to test ..."

18      A.   Sorry?

19      Q.   4.7.

20      A.   Yes.

21      Q.   What I think you are saying here is that looking at ROCE  
22           is one approach that could be adopted to test for  
23           excessive pricing?

24      A.   Yes.

25      Q.   Over the page, 4.8, I think what you are saying is that

1 the competition test for excessive prices considers  
2 whether the ROCE equals or exceeds the WACC?

3 A. Yes.

4 Q. In footnote 84 you say:

5 "If a firm's profitability is higher than that which  
6 would prevail in a competitive market which is given by  
7 the WACC, that might indicate that prices are  
8 excessive."

9 A. Yes.

10 Q. So you seem to be suggesting here that the prices that  
11 would prevail in a competitive market are indeed those  
12 given by the WACC, that is your parenthesis?

13 A. Yes.

14 Q. Have you done any analysis of the extent to which profit  
15 returns in pharmaceutical markets are influenced by  
16 a company's WACC?

17 A. I am not sure I follow.

18 Q. Have you analysed whether the WACC that you use here,  
19 which is the 8.2 to 12 per cent, corresponds to a WACC  
20 that one would expect if you look empirically at returns  
21 in pharmaceutical markets?

22 A. This is based on Pfizer's WACC.

23 Q. Have you looked at whether that WACC is the WACC that  
24 would be used in other pharmaceutical markets in  
25 generics, for example?

1       A. As I said, we have taken a range from 8 to 12 per cent  
2           weighted average cost of capital. That is significantly  
3           above a regulated weighted average cost of capital.  
4           Based on my experience, for the generic to have  
5           a significantly higher WACC it would have to have a very  
6           high beta, and observing those betas is relatively rare.  
7           So my professional experience is that the WACC that we  
8           have used of 8 to 12, especially the 12 per cent, is  
9           likely to be generous, but I have not done an analysis  
10          of generic WACCs for sure.

11       Q. Are you aware that the PPRS has a ROCE allowance as  
12          an alternative to the ROS allowance?

13       A. Yes.

14       Q. Do you recall what that allowance is?

15       A. 20 per cent?

16       Q. 21.

17       A. 21.

18       Q. So with a margin of tolerance that is 31.5.

19       A. That is an average rate, and what we have observed is  
20          Pfizer's rate, and as I have been explaining it is quite  
21          possible for a company to have a return that is below  
22          the average.

23       Q. But that is the benchmark in the PPRS.

24       A. That is, but I am not applying the PPRS here, I am  
25          applying --

1 Q. That is a bit odd, is it not, because you considered  
2 that the PPRS was an appropriate benchmark for the ROS,  
3 and Mr Williams has explained that the ROS benchmark and  
4 the PPRS was calculated to be related to the WACC  
5 benchmark or the ROCE benchmark. So given that you used  
6 the 6 per cent in the PPRS as your starting rate for the  
7 ROS, why did you not take the PPRS ROCE figure?

8 A. Because what we are actually observing is the actual  
9 weighted average cost of capital for Pfizer who has  
10 drugs within the PPRS. I think that is a more empirical  
11 analysis of what the risk facing Pfizer is. The actual  
12 risk that it faces.

13 Q. But you say you did not do that for generic companies or  
14 Flynn?

15 A. No, but I would be surprised if it was significantly  
16 higher.

17 Q. You do your ROCE analysis at paragraphs I think 4.25  
18 onwards. That is headed "My Assessment of the CMA's ROS  
19 Findings for Flynn"?

20 A. Yes.

21 Q. You say at 4.26:

22 "That approach provides an indication of the minimum  
23 return investors would require on invested capital."

24 A. Correct.

25 Q. But you then go on to conclude at 4.32 over the page,

1 last sentence:

2 "The ROCE analysis corroborates the conclusion that  
3 a 6 per cent ROS is a reasonable return for Phenytoin."

4 A. Yes.

5 Q. And you say the same at 4.37?

6 A. Yes.

7 Q. So in those later paragraphs, you are not saying that  
8 6 per cent is sufficient return on invested capital, you  
9 are saying the ROCE analysis is one reason why it was  
10 reasonable. Full stop.

11 A. Sorry, I missed the end part.

12 Q. You started off talking about an indication of the  
13 minimum return?

14 A. Yes.

15 Q. Then you used that analysis, which you said was  
16 a minimum return analysis, to corroborate 6 per cent, so  
17 you seem to be turning it into a maximum?

18 A. No, I am not at all. If you look at figure 4.1, this is  
19 the output of the WACC analysis, the ROCE analysis on  
20 page 49. I have looked at four different measures of  
21 working capital. I have to say that in each of these  
22 measures from different sources I have been conservative  
23 because I do not include creditors in the analysis.

24 Creditors is a liability that would reduce these

25 figures. Obviously if you buy stock and you have not

1           paid for it, then you have not really invested anything.

2           So these are conservative estimates. And the  
3           thickness of the bar is because I have used a wide range  
4           for the WACC that I explained, 8 to 12. I think 12 is  
5           a relatively high rate, and what you can see on the  
6           right-hand side is what this analysis turns into on  
7           a return on sales basis. The highest is about  
8           3 per cent and the lowest is below 2.

9           So I say that it is a minimum because the answer is  
10          coming out of 2 per cent, but I am saying that  
11          6 per cent appears reasonable because there is  
12          a margin -- headroom, if you like -- of times 2 to times  
13          3 from that analysis. So I am giving them at the one  
14          end three times more return than they require and at the  
15          higher end two times more. So effectively I am saying  
16          that it starts from a minimum and because it is below  
17          the 6 per cent, the 6 per cent appears reasonable based  
18          on a test that looks at the minimum.

19         Q. Do you not get those figures because you have used  
20          a WACC that is way below, in fact about a third as much  
21          of the WACC that under the PPRS is regarded as the  
22          reasonable WACC?

23         A. Well, it says "return on capital". I am not sure  
24          whether that is the return on equity or the return on  
25          debt and equity, that would need to be confirmed, but

1           that is the average rate. I based this analysis on what  
2           Pfizer's actual weighted average cost of capital is, it  
3           is an empirical measure of what the market will lend  
4           money to these customers. That is why it is the  
5           minimum.

6           Q. That is the only empirical analysis that you have done,  
7           is it not?

8           A. It is, but it is relevant because we calculate the WACC  
9           when Phenytoin was within Pfizer.

10          Q. So it is okay to do an empirical analysis if that  
11          results in something that is three times below the WACC  
12          that is given in the PPRS, but on the other hand when  
13          you use the ROS figure, because 6 per cent is a nice low  
14          figure, it is okay to use that benchmark and not do  
15          an empirical analysis?

16          A. No, that is generous. By selecting 6 per cent that is  
17          generous. This is testing the minimum amount that you  
18          require, I am not testing the maximum here.

19          Q. So CRA, as you will have seen, they have objected to  
20          your ROCE analysis, that is Mr de Coninck's report?

21          A. Yes.

22          Q. And he makes various points. The first is that a ROCE  
23          analysis is inappropriate for cases where the capital  
24          employed is hard to value or in asset-light businesses.  
25          His second point is that, even leaving that aside,

1 a comparison between the ROCE and WACC is not  
2 informative of whether profits are actually excessive  
3 because the WACC is just the minimum level, I think you  
4 are now saying that you agree that it is a minimum  
5 level?

6 A. So taking those two points. Do not forget I have been  
7 asked to look at a reasonable rate of return for the  
8 purposes of the first step of United Brands. I am not  
9 testing the rate above which things become excessive, so  
10 it is just a return rate of return. I fully accept that  
11 returns can deviate around that but that is a second  
12 step which I have not been asked to look at.

13 That was an answer to the second question. Could  
14 you just remind me of the first?

15 Q. I was not actually asking you about the first, I was  
16 more asking you about the second of the two, because you  
17 do agree there are difficulties associated with the  
18 ROCE-based approach for asset-light businesses, so I was  
19 not going to ask you --

20 A. It is important to understand the motivation, why I did  
21 the case, because it was advanced that Phenytoin needed  
22 a high return because it had high stock values that cost  
23 a lot of money. So the purpose of this analysis is to  
24 test that proposition, and I find that its high return  
25 is not due to the level of working capital it requires.

1           So the point about capital-light businesses is that  
2           it is right that working capital may not provide  
3           sufficient capital. There are businesses where there is  
4           more going on that you have to give a return on, so  
5           brand values might be an example, or where there is  
6           contingent capital. This is very prevalent in things  
7           like the energy markets where you had very low capital  
8           employed but the energy companies had to purchase gas  
9           and electricity in advance of knowing how the weather  
10          would turn out. If they got that wrong the business  
11          could make very substantial losses. So the industry  
12          argued that you would need to have some "risk adjusted"  
13          capital on the balance sheet to protect you from those  
14          losses if a one-in-five winter came along.

15          So it is true that when you do this type of analysis  
16          in asset-light, you have to be cautious that there may  
17          be assets not on the balance sheet that you have to give  
18          some credit for.

19          In my first report I raised the question  
20          saying: this is the case, I have looked at it on this  
21          basis, and there may be more capital. But nobody has  
22          responded to that to say, ah, you are missing this type  
23          of capital. In fact in CRA's final report it argues  
24          that there is no other fixed capital.

25          Q. I think that is a matter for Mr Hoskins' submissions.

1 Can I just --

2 A. But I would just like to make the relevant point around  
3 that. Just to come back to --

4 THE CHAIRMAN: Stick to the questions for the moment, if you  
5 would not mind.

6 MS BACON: Can I then ask you to look at your second report,  
7 paragraph 4.32, the last sentence:

8 "I used ROCE only to check that 6 per cent is  
9 sufficient to meet Flynn's working capital  
10 requirements."

11 Then you have also said at 4.30:

12 "The ROCE cross-check ensures that the ROS is not  
13 set at a level that is obviously too low."

14 Am I right to understand from this that all you are  
15 doing with your ROCE analysis is confirming that, taking  
16 your WACC of 8 to 12, Flynn's profitability is above the  
17 minimum floor that investors would require?

18 A. That is the first step of it, yes. The second test that  
19 I do, which is on the next page, is to say what happens  
20 if instead of just the working capital you have to  
21 recover some form of notional capital on top of that?  
22 Because in effect if you need a return above notional  
23 capital, above variable capital, there must be some form  
24 of notional capital, brand value or something to that  
25 effect. And that is what I test in 4.34 by saying if

1 I take the full capital of Flynn and apply that to each  
2 product, ie giving each business its working capital  
3 plus some form of notional capital, what does the return  
4 on capital employed look like?

5 I am using this as a further cross-check to try and  
6 see if Phenytoin is different, and what the graph shows  
7 is that Phenytoin is very different from all of the  
8 other products. But even if it recovers all the capital  
9 of Flynn it earns a weighted average cost of capital of  
10 [percentage redacted]. No other product, even high  
11 volume products like [product redacted], comes anywhere  
12 close.

13 So this analysis is also used to corroborate my  
14 analysis of CRA's analysis of Flynn's profitability  
15 across the products.

16 Q. That is a different topic to which we are going to come  
17 tomorrow, Mr Harman. So just sticking with the question  
18 that I was asking, about your conclusion in 4.32 --

19 PROFESSOR WATERSON: You mentioned a figure there earlier.

20 I am not sure whether that figure should be revealed  
21 openly.

22 MS BACON: I am sorry, actually that is right. And there  
23 was mention of a few products there which need to get  
24 removed from the transcript as well. I will get our  
25 solicitors to liaise with the transcribers afterwards to

1 make sure that a suitably redacted version is prepared.

2 So in your analysis at 4.30 to 4.32, because you  
3 agreed that you were using that to set a floor rather  
4 than a ceiling, do you agree that that analysis in  
5 itself does not tell you whether 6 per cent is right or  
6 not? And sticking with the question about the ROS  
7 benchmark here, not talking about other products.

8 A. It does not confirm that 6 per cent is right, ie too  
9 high, but it does confirm that it is not too low, which  
10 is also an important point because I was responding to  
11 an argument that says we need high profitability because  
12 we have high working capital and that turned out not to  
13 be the case.

14 Q. You confirm it is not too low from the perspective of  
15 an investor return, but that does not tell you whether  
16 it is too low for other reasons, for example, because it  
17 is very far below the profitability range for generic  
18 products as a whole?

19 A. I am not sure you can say that from a consistent generic  
20 point, ie you could say on the generics that you have  
21 put forward, but I cannot say whether they are  
22 like-for-like comparables.

23 Q. My point is you were using the WACC to test from  
24 a particular perspective, from an investor perspective,  
25 whether the 6 is too low, and you say from an investor

1 perspective it is not too low, but that does not mean  
2 there might not be other reasons why it is too low?

3 A. I am not sure I follow, sorry.

4 Q. The point is simply that there may be a variety of  
5 reasons why one would set a profitability level at  
6 a particular point. You are saying that the benchmark  
7 of 6 is not too low if you are purely looking at what an  
8 investor would require, and I am saying there may be  
9 other reasons, other than simply looking at the minimum  
10 an investor would require, which might indicate that  
11 profitability should be higher or at least the benchmark  
12 should be higher?

13 A. That might be the case, but finance theory would tell us  
14 that the investment community would invest at that rate  
15 in this type of product. That is what market theory  
16 tells us. So companies may earn more than that, but  
17 actually if this opportunity presented itself to  
18 investment banks they would invest at that rate of  
19 return and earn quite a healthy profit from it.

20 Q. Can I turn to the margin of tolerance now. That I think  
21 is the last section in relation to the ROS benchmark.

22 At paragraph 4.55 of your first report, you say that  
23 the parties' arguments regarding the MOT conflate the  
24 two questions of what constitutes a normal return and  
25 what is an acceptable deviation from the benchmark.

- 1 A. Sorry, am I at ...
- 2 Q. 4.55.
- 3 A. Yes, I see that.
- 4 Q. Is it correct to say that you accept that under the 2014  
5 PPRS, a local return of up to 9 per cent is acceptable?
- 6 A. Yes.
- 7 Q. So put another way, you accept that the 9 per cent is  
8 the allowable return under the 2014 PPRS?
- 9 A. It is not the way that I have interpreted it. What  
10 I interpret from the scheme is that you are allowed  
11 a 6 per cent return with a margin of tolerance of up to  
12 9 per cent. But as soon as you get to 9 per cent then  
13 you are in contravention of the scheme. So the way in  
14 which I have interpreted it here is that a reasonable  
15 rate of return is 6, but it could be higher, up to the  
16 margin of tolerance. But the difference between the 6  
17 and 9 there I am seeing as a part two of United Brands  
18 as opposed to part one, so that is the difference.
- 19 Q. I was asking you whether acceptable means allowable.  
20 The point is under the PPRS, 9 per cent at the moment is  
21 allowable, is it not?
- 22 A. It is, but --
- 23 Q. That is all I wanted --
- 24 A. -- you go a penny over and then you are in  
25 contravention.

1 Q. Yes, but I am not disputing that. I am not asking about  
2 the contravention range.

3 And do you accept that the allowable rate under  
4 the old PPRS was 8.4 per cent?

5 A. I do.

6 Q. You say that looking at what is the allowable return is  
7 the wrong question because the question should be normal  
8 return?

9 A. A reasonable return, yes.

10 Q. You say "normal" return here.

11 A. Okay, I mean "reasonable".

12 Q. So we strike out "normal" and put "reasonable"?

13 A. Well, I define reasonable return at the beginning of  
14 section 4 and I also, in that definition, refer to it as  
15 being normal. So I have already defined reasonable and  
16 normal as being the same in an economic sense.

17 Q. So you think it is the same thing. So you mean  
18 reasonable or normal under the PPRS.

19 So you are saying then that the benchmark should be  
20 the reasonable/normal return under the PPRS, not the  
21 allowable return?

22 A. For step one of United Brands, yes.

23 Q. So when the CMA in the decision referred to the  
24 allowable ROS, and I have taken you to the paragraph in  
25 the decision where it did so, are you saying the CMA was

1           referring to the wrong thing? Should it have been  
2           referring to the normal or reasonable ROS under  
3           the PPRS?

4       A. I am not sure.

5       Q. What do you say is the normal or reasonable ROS? Is  
6           that the 6 per cent?

7       A. Yes.

8       Q. But you have already said you do not know what a company  
9           in the PPRS actually makes. So you cannot really say  
10          that that is normal/reasonable, can you?

11      A. I am saying 6 per cent is an agreed target, which is  
12          a target. You should be allowed to have 6 per cent.

13      Q. I have already asked you if you know how many companies  
14          make that 6 per cent and you said you did not know.

15      A. No, but there is some evidence in Williams 2 that might  
16          assist us on that.

17      Q. But do not know. You have not done any analysis. You  
18          do not know if companies actually make 6, 9, 20 or 50?

19      A. Well, I do, because in Williams 2 he says that after all  
20          of the adjustments have been made, the return, out-turn  
21          returns, are circa 19 per cent.

22      Q. Yes. I was not asking you what the returns are after  
23          all the adjustments have been made, I was asking you  
24          what the returns are just looking at the return that  
25          the company makes, not what it plugs into the AFR --

1           A. But you have already explained that that is the wrong  
2           column. We should not be looking at the company return,  
3           we should be looking at the adjusted. When we look at  
4           the integrated adjustment of 19 per cent we know that  
5           what has been stripped out of that is the profitability  
6           of the foreign entity. So to put this on  
7           a like-for-like basis we have to take 13 per cent off  
8           that 19 per cent which gives us a return of 6 per cent  
9           or below. So actually what Mr Williams' analysis  
10          suggests is that firms are actually earning around  
11          6 per cent, not the 9 per cent which does actually  
12          confirm this as a target.

13         Q. I am not asking you what Mr Williams said, I am asking  
14         you what you have done. And the point is that you do  
15         not know, looking at any of the statutory accounts for  
16         any company within the PPRS, except for maybe Flynn and  
17         Pfizer, you do not know what they make?

18         A. I have not done that analysis because Mr Williams has  
19         done that analysis.

20         MS BACON: I do not have any more questions on the ROS  
21         benchmark so I was then proposing to move on to cost  
22         allocation, but I promised to pause and allow any  
23         questions that there might be so maybe that is a good  
24         moment.

25         PROFESSOR WATERSON: I was looking for the reference, but

1 I cannot at the moment lay my hands on it, where you  
2 talk about what an excess return would be versus  
3 a reasonable return.

4 A. Yes.

5 PROFESSOR WATERSON: I am afraid I cannot find --

6 A. Where I define reasonable return? I think it is at the  
7 beginning of section 4 of my first report. It is  
8 paragraph 4.5. Basically it says:

9 "The OFT has explained that in a competitive  
10 market --"

11 PROFESSOR WATERSON: Yes, thank you. So at 4.8, you say:

12 "The competition test for excessive prices considers  
13 whether the ROCE equals or exceeds the WACC as  
14 follows ..."

15 A. Correct.

16 PROFESSOR WATERSON: So the WACC is reasonable, is that  
17 right?

18 A. Yes, it is calculated based on the weighted average cost  
19 of capital, equity and debt. Debt is obviously actual  
20 debt, equity is based on normally the CAPM model. The  
21 CAPM model takes what the average market return is and  
22 adjusts it for risk.

23 PROFESSOR WATERSON: So as soon as you go over that WACC  
24 then it becomes excessive.

25 A. No. Sir, I think this is the important point. What we

1 say is that the reasonable return is 6 per cent and  
2 there may be some variation around that. As  
3 an economist I cannot tell you what that variation is,  
4 I think that is a legal matter. Obviously there has to  
5 be some gap because there can be calculation errors and  
6 it might be reasonable for firms to, in the short-term,  
7 earn returns above the average. But I am not saying  
8 that a per cent over 6 per cent and you would be  
9 excessive in terms of 102 or chapter 2 definition of  
10 excessiveness, I think we are just saying the starting  
11 point is reasonable and it is for the tribunal to decide  
12 how much gap it becomes excessive.

13 PROFESSOR WATERSON: So when you say the "competition test"  
14 for this, it sort of implies that 6 per cent would be  
15 okay but 6.1 per cent would not be from the way you have  
16 written 4.8.

17 A. I do not mean it in that way at all.

18 PROFESSOR WATERSON: I see.

19 A. Because if you look at footnote 84, I say it only  
20 "might" indicate prices are excessive.

21 PROFESSOR WATERSON: Okay, right. I was just trying to  
22 establish exactly what you mean. Thank you.

23 MR LOMAS: I had one technical question which may have been  
24 picked up somewhere in the evidence but I do not think  
25 so.

1           In your cross-check based on the ROCE calculation  
2           you were taking a WACC for Pfizer of between 8 and  
3           12 per cent.

4           A.    Correct.

5           MR LOMAS:   That is a WACC that applies to the company as  
6           a whole across its whole portfolio of activities and  
7           products.

8           A.    Correct.

9           MR LOMAS:   Is it logically appropriate to take that range  
10          and apply it to a single product?  We have had a lot of  
11          debate about average versus an individual product, but  
12          it seemed to me that that was implicitly what you had  
13          done in that analysis.

14          A.    It is very difficult empirically to divisionalise  
15          a beta.

16          MR LOMAS:   You look for single project companies and things  
17          like that.

18          A.    And they do not exist.

19          MR LOMAS:   Exactly.

20          A.    Whenever it is done it is done badly.  So the starting  
21          point goes back to: do we believe that Phenytoin,  
22          sitting in Pfizer's portfolio, is likely to be riskier  
23          or less risky?  I cannot tell you empirically how that  
24          will change things, but I think the logic qualitatively  
25          means that if it is less risky it is likely to have

1 a beta that is lower than Pfizer's.

2 MR LOMAS: Thank you.

3 THE CHAIRMAN: Can I be absolutely clear about this margin  
4 of tolerance. You are placing that as something which  
5 goes into the calculation of whether a price is  
6 excessive, ie above the reasonable rate of return.

7 A. That is just the way I have interpreted it. There may  
8 be alternative ways.

9 THE CHAIRMAN: And you are not actually instructed to talk  
10 about that.

11 A. No. Correct.

12 THE CHAIRMAN: So we should not listen really.

13 MS BACON: Just to be clear, sir, I think that is common  
14 ground, that the margin of tolerance issue here is used  
15 as one of the arguments why the 6 per cent was the wrong  
16 figure and it goes to the ROS benchmark.

17 As you will recall, I also referred to that when  
18 I was talking about the transfer pricing model. But  
19 that all goes to the question of the ROS benchmark.

20 With the tribunal's permission I would then turn on  
21 to the costs allocation issue.

22 Your starting point, and that is at paragraph 3.10  
23 of your first report, is to say that there is no  
24 uniquely correct approach to allocating common costs  
25 because there is no direct link between common costs and

1 levels of activity. So I think you would then agree  
2 that no cost allocation methodology can be described as  
3 "perfect"?

4 A. Correct.

5 Q. So then do you agree that the correct approach is to  
6 consider the various methods of costs allocation that,  
7 even if not perfect, are at least informative or  
8 potentially informative to the CMA's analysis?

9 A. I think I agree with one proviso, and the one proviso is  
10 that I think that it is important, when we assess what  
11 that reasonable set of cost allocation methodologies is,  
12 that there is no factor that knowingly biases the costs  
13 in a way which would not be objective. So it is not  
14 that all are possible, but there are some that may have  
15 in-built biases which make them less attractive.

16 Q. So you say that if something is potentially biased then  
17 you should chuck it out of the basket, but in all other  
18 cases, even if the method is not a perfect one, you keep  
19 it in the basket?

20 A. I do not think that it is fair to say that I chuck  
21 things away. In my table 3.2 I have actually done all  
22 of the methods --

23 Q. I am going to come to that. But I put to you that you  
24 would consider the various methods that are at least  
25 informative or potentially informative, and you said

1           when you are looking at what is reasonable to include,  
2           so what is reasonable to put in the basket, you should  
3           not have something that was biased. So I am saying: is  
4           bias something that means you chuck it out of the basket  
5           and you do not look at it at all, or is bias something  
6           that means you would put in the basket but you might  
7           give it less weight than the others?

8           A. I would probably give it less weight in the basket.

9           Q. The latter, okay. So when you were deciding which cost  
10          allocation methodology to put in your basket as being  
11          informative or potentially informative, do you agree  
12          that it is relevant to consider whether costs are  
13          allocated in the sector that you are looking at and, if  
14          so, how that allocation is done?

15          A. In certain instances it can be relevant, but it is on  
16          a case by case basis as to whether it is relevant. So  
17          I think in this instance -- maybe I should not pre-judge  
18          the question that is coming later.

19          THE CHAIRMAN: Wise.

20          MS BACON: So if companies in an industry always or almost  
21          always allocate costs in a certain way, would you agree  
22          that that is a good indication that the industry views  
23          that as the most meaningful way to allocate costs?

24          A. The allocation of costs has to have a purpose. So  
25          allocating costs for commercial purposes may be

1 different from allocating costs in a competition inquiry  
2 or a regulatory price setting instance. So I think  
3 again it has to be context specific.

4 Q. But with that qualification, it would be relevant to  
5 look at how companies do allocate costs?

6 A. If in fact companies do allocate costs to individual  
7 products, yes.

8 Q. Because if you do not look at what is actually done, is  
9 there not a problem when you come to consider  
10 comparators? Because you might then be comparing the  
11 ROS of the product that is under investigation with the  
12 ROS in a comparator where that has been based on  
13 a different cost allocation?

14 A. No, I think you are conflating two points. I think the  
15 rate of return is set exogenously from how cost  
16 allocation is performed. So that is the first step,  
17 calculate the rate of return. And the second step is  
18 then to consider what is the allocation mechanism. I do  
19 not see those two going as hand-in-hand.

20 Q. But if you have a different cost allocation then you get  
21 a different rate of return, do not you?

22 A. You might get a different rate of return.

23 Q. So that is my point. If you are taking the ROS that you  
24 have calculated on one basis, and if you are comparing  
25 that with whatever comparator where the ROS might have

1           been calculated using a different cost allocation  
2           methodology, then you would not be comparing apples with  
3           apples, would you? I think you said you would be  
4           comparing apples with kumquats or something like that?

5           A. Again I know where the question is going --

6           Q. Is --

7           A. -- but I disagree with the proposition that will then  
8           follow. So I am going to say that as a general  
9           position, the rate of return is set exogenously. And  
10          the second question is then you have to think about what  
11          is the most appropriate cost allocation mechanism in  
12          this context.

13          Q. Right. If I start with your evidence about a volume  
14          approach?

15          A. Yes.

16          Q. You say this is not only informative but is the  
17          reasonable, and indeed the uniquely reasonable, approach  
18          in this case.

19          A. Sorry, where do I say "uniquely reasonable"?

20          Q. I am perhaps summarising. But you say the volume  
21          approach is the only approach being adopted in this  
22          case, is it not, because you have rejected a revenue  
23          approach?

24          A. I reject the revenue approach in this case because it  
25          has a bias.

1 Q. So you are saying in this case the volume approach is  
2 the uniquely reasonable one?

3 A. No. I think incremental, stand-alone, equal and  
4 adjusted EPMU all give us other bits of evidence.

5 Q. Is that because they all kind of come out with the  
6 answer that you want them to come out with?

7 A. I do not want this to come out with any answer. I have  
8 been asked as a independent expert.

9 Q. As you know, one of the points Mr Williams makes is to  
10 say that in his experience, companies in  
11 the pharmaceutical sector almost invariably use  
12 a revenue-based approach rather than a volume-based  
13 approach and that he has never seen a pack-based  
14 allocation used to apportion costs between different  
15 products in a portfolio or across different columns in  
16 an AFR.

17 I just want to look at your response. I think the  
18 best place to pick that up is in paragraph 1.4 of the  
19 joint statement which is at the back of your evidence  
20 bundle.

21 A. Yes.

22 Q. You say, picking it up in the second of the  
23 subparagraphs in 1.4:

24 "The fact that an allocation based on volumes or  
25 revenues does not take place during the normal course of

1 Flynn's business is not necessarily relevant."

2 Then you have referred back to your first statement  
3 where you say the same thing. In your first statement  
4 at the paragraphs you cite, and perhaps we ought to look  
5 at those. So in those paragraphs you have set out some  
6 of what Mr Walters' has said. For example, at 3.18 you  
7 quote his statement:

8 "It is not possible to set a forward-looking price  
9 for a drug ... where sales volumes can vary so  
10 significantly."

11 Can we look at the whole of Mr Walters' evidence on  
12 that? This is one of those occasions when we need to  
13 look beyond these two bundles we have been using.  
14 I need you to have bundle B, tab 4. That is the first  
15 statement of Mr Walters.

16 A. Yes.

17 Q. The paragraphs I want you to look at where this extract  
18 is taken from is paragraphs 60 to 64. I do not need you  
19 to read all of them, but do you accept that one of the  
20 main points that he makes in this section, which he  
21 repeats a couple of times, one of them is in  
22 paragraph 60, for example, is that the majority of  
23 Flynn's costs, and I think he means common costs there,  
24 are fixed costs, not product-specific variable costs?

25 A. Correct.

- 1 Q. Do you agree with that as a matter of principle from  
2 what you have seen of Flynn's costs, Flynn's common  
3 costs?
- 4 A. They are assumed to be, yes.
- 5 Q. Mr Walters is not an economist, but do you agree that  
6 putting this point in economic language, the point that  
7 he is making is that volumes of sales do not drive  
8 Flynn's common costs?
- 9 A. That is true. But nothing drives them, that is why they  
10 are common --
- 11 Q. Yes, I was going to come to this. So you agree then  
12 with his statement that Flynn's volumes are not a driver  
13 of common costs, and you say that common costs do not  
14 vary directly with volume or with revenue?
- 15 A. We are in agreement.
- 16 Q. So is it therefore your evidence that cost causality  
17 cannot be used to decide between a volume or a revenue  
18 approach in this case?
- 19 A. Not in the short-term. But there is a conceptual point,  
20 and the conceptual point is this: cost allocation  
21 normally takes place within a framework. The most  
22 common one is an activity-based costing framework where  
23 one goes to great lengths to try and work out what  
24 actually drives costs, and it is normally a level of  
25 what activity, it might be volume, it might be headcount

1           it might be the number of orders processed. There will  
2           be a rump of costs which are common and fixed and do not  
3           vary with activity, that is what we are dealing with  
4           here. Normally that pot could be bigger than it should  
5           be because you have not really done an ABC costing, so  
6           you just assume the costs within there are fixed, and  
7           that is the kind of position we are in here, an ABC  
8           costing review was not performed, but we will assume  
9           they are fixed.

10           My biggest point is conceptually. In the short-term  
11           it is true that these costs will not vary by activity,  
12           but in the long-term, as activity changes, they could  
13           change. And changing common costs in the longer-term as  
14           activity expands are more likely to be driven by  
15           a volumetric.

16           Price, which is the component that is attached to  
17           volume to turn out to be revenue, never drives costs.  
18           I cannot think of a common cost, a fixed common cost,  
19           that would ever be driven by the addition of price.  
20           I can see it in terms of volume but not price.

21           So theoretically within an ABC context, volume  
22           appears better, all else equal, than a revenue driver.

23           Q. So you are making a theoretical point here?

24           A. Yes.

25           Q. But you accept that empirically, and as a matter of the

1 evidence that Mr Walters has given, where that leads one  
2 is that cost causality is essentially neutral, it does  
3 not point in one direction or another?

4 A. In this case that is correct.

5 Q. So can I just take you then back to your joint statement  
6 at 1.4. So that is what you were saying in the  
7 paragraph that we were reading before we went to  
8 Mr Walters.

9 A. Yes.

10 Q. You are responding to Mr Williams and you have responded  
11 by saying, well, what Flynn does does not really point  
12 one way or the other. But Mr Williams' point was not  
13 just that Flynn does it, but that he has never seen it  
14 done this way ever in his professional career.

15 A. I think the point here, the underlying assertion, and  
16 this is why I was loathe to give an answer because  
17 I could see this coming, is that when we talk about  
18 business practice and the use of revenues, the evidence  
19 is nobody allocates to products. Full stop. So  
20 revenues are not used to drive costs to products, and  
21 nor are volumes. So both revenues and volumes both have  
22 that problem.

23 Where revenue is used is to allocate within a broad  
24 pot of costs, to a broad portfolio of products, is into  
25 the PPRS, but it is not product-specific. And because

1           this is controlling for excessiveness by saying you can  
2           have a 6 per cent return overall, then a revenue  
3           allocator is not a bad allocator if you are allocating  
4           it to a broad spectrum of products in a portfolio if you  
5           do not believe them to be excessive. But nobody is  
6           allocating to products on the basis of revenues and that  
7           is the thing I am at odds with Mr Williams on.

8           Q. Mr Williams' other point is that in general  
9           pharmaceutical products are not sufficiently homogeneous  
10          for a cost allocation to be based on the numbers of  
11          packs. And I first want to take you to the relevant  
12          passages of his evidence and I will then ask you some  
13          questions about your response to this.

14                 So can we look at Mr Williams' third report and that  
15                 is in bundle D.

16          A. Which tab?

17          Q. Sorry, that is at tab 13. He makes this point about  
18          homogeneity as a general point about the pharmaceutical  
19          industry, and you see that in paragraph 33. He gives  
20          the example of one of his clients that sells a product,  
21          an oral contraceptive alongside a novel oncology  
22          product, and you will have seen what he says about that.  
23          Then at paragraph 36 he gives a specific illustration  
24          from Flynn's portfolio where he points out that ten  
25          individual vials of -- I have to make sure I am not ...

1 Yes, ten individual vials of Vancomycin would, on your  
2 cost allocation methodology, attract ten times the  
3 common cost allocation of a single ten-pack  
4 presentation.

5 Then if you turn to the next tab, Williams 4,  
6 paragraphs 13 to 16, he makes the same points and he  
7 puts some numbers on this to show that your approach or  
8 the CMA's approach would lead to the amount of cost  
9 allocated to the contraceptive product being 700 times  
10 the cost allocated to the oncology product even if their  
11 revenues were identical and even if the gross margin on  
12 the oncology product was, as one would expect, higher  
13 than on the contraceptive product.

14 At paragraphs 15 and 16 he gives a further example  
15 of the problems of a volume-based method if the pack  
16 size changes, and he gives the example of a particular  
17 product that was sold as part of a two-box regime but is  
18 now able to be sold as a single box presentation because  
19 of a new strength, and he says if that occurred, the cost  
20 allocation would immediately change even if there was no  
21 material change in the actual common costs. And no  
22 impact on overall demand for the product or revenues  
23 received from the product as a whole. And you will have  
24 seen that Mr Walters makes essentially the same points  
25 and I will not take you back to those.

1           Can I now look at your response to that which is in  
2           the joint statement at paragraph 1.2. So you say in  
3           1.2:

4           "GH considers Flynn's products are relatively  
5           homogeneous. This means that the products are  
6           sufficiently homogeneous such that the volume-based  
7           allocation will not lead to obviously biased results."

8           And then you say:

9           "It is an empirical question as to whether different  
10          volume methods will lead to materially different cost  
11          allocations across products and over time."

12          Are you then saying there it is an empirical question  
13          whether products are sufficiently homogeneous?

14        A. No, I think that in that trawl of paragraphs we have  
15          managed to conflate two different issues, one is the  
16          question of homogeneity and the second is what happens  
17          if pack volumes change. They are actually separate  
18          points.

19          The first point about homogeneity is there is no  
20          test if things are sufficiently homogeneous, the question  
21          is do you have a common volume metric, and I explained  
22          in my report there are instances when you do not even  
23          have a common basis of unit. I quote a Siemens example,  
24          but another one would be from the telecoms sector where  
25          maybe you are selling leased lines to business which

1 vary by length, and you are selling pay TV which is  
2 based on the number of subscribers, and mobile phone  
3 units which are number of minutes consumed. There you  
4 do not even have any homogeneity over the sales unit  
5 which means you cannot use that approach.

6 Pretty much in every single industry you are going  
7 to have different products. If I was in a supermarket  
8 I have different products, I am not only selling bananas  
9 but I have canned food and everything is different. The  
10 question is: is there a starting point that you can  
11 allocate on that basis? It is not a central part of my  
12 argument, I just say: by the by, you have a common unit,  
13 and here in the drug industry you are selling a drug to  
14 a customer so there is some commonness.

15 In the cost stack it is only the fixed cost which  
16 has got something that is suffering from homogeneity  
17 because the variable cost, and you have got all of these  
18 different products which do have differences, that  
19 difference gets reflected in the variable costs --

20 Q. Can I just bring you back to my question, please?

21 A. Well, you were asking me about --

22 Q. No, I asked you a very discrete and a closed question.

23 I was asking you about your first sentence of the second  
24 paragraph at 1.2, and you say there it is an empirical  
25 question. And I am just saying can I summarise that

1 sentence as saying that it is an empirical question  
2 whether products are sufficiently homogeneous, and that  
3 is a "yes" or "no" answer?

4 A. Okay, no -- so I started by saying we had conflated two  
5 different issues.

6 Q. No, I am not asking you about the paragraphs of  
7 Mr Williams' and Mr Walters' statements that I have  
8 taken you to. I showed you that paragraph in order to  
9 put in context your response which I am taking you to  
10 and I am asking you: what do you mean in the first  
11 sentence of the second paragraph of your response?

12 A. But that sentence is not referring to homogeneity,  
13 because if you read the full sentence in brackets it  
14 says "as pack sizes change". So that is the second  
15 issue. One is about homogeneity and the second is what  
16 happens if pack sizes change. So they are different  
17 points.

18 Q. But do you say it is an empirical question, ie you look  
19 at the specific products to test whether they are  
20 sufficiently homogeneous?

21 A. No, I am saying that the empirical test is what happens  
22 when pack sizes change. Because what is being put  
23 forward is that you cannot use volumes partly because of  
24 homogeneity, and I say they are sufficiently homogeneous.  
25 The second point they are raising is that you cannot use

- 1           it because if pack sizes change the cost allocations  
2           change.
- 3       Q.   Right --
- 4       A.   And I say but that is a natural point.  If volumes  
5           change, cost allocation will change.  If prices change,  
6           cost allocation will change.
- 7       Q.   So you are saying it is not an empirical question  
8           whether two products or a group of products are  
9           sufficiently homogeneous?
- 10      A.   No.
- 11      Q.   How do you tell whether they are sufficiently  
12           homogeneous without looking at them?
- 13      A.   As I said, as I was explaining, they have to have  
14           a common sales unit.  The non-homogeneity part of it is  
15           picked up in the variable costs if there are differences  
16           in the drug, and because differences in products does  
17           not drive or change common costs.  As long as they have  
18           a common unit you can use the volume-based method.
- 19      Q.   Are you saying, therefore, it is sufficiently  
20           homogeneous if two products are sold in a sales unit of  
21           a pack because it is a common sales unit?
- 22      A.   In my opinion I think that is sufficient.
- 23      Q.   So a pack of Smarties is sufficiently homogeneous to  
24           a pack of Phenytoin capsules then?
- 25      A.   But Flynn is not selling Smarties, it is selling drugs

1           in unit sizes, and those unit sizes must have some  
2           commercial logic behind them.

3       THE CHAIRMAN: I think you may not agree with what the  
4           witness is saying, Ms Bacon, but it is fairly clear what  
5           he is saying.

6       PROFESSOR WATERSON: Can I raise a point on this?

7       MS BACON: I was just trying to test the boundaries of the  
8           proposition.

9       THE CHAIRMAN: I know, you were trying to set the context  
10          for a question but you got a different answer.

11      PROFESSOR WATERSON: I am curious about this question about  
12          relatively homogeneous. Clearly if some things are  
13          measured in minutes and others are measured in  
14          an entirely different way then they are not sufficiently  
15          homogeneous. But it occurs to me that often in merger  
16          cases, for example, a decision has to be made as to  
17          whether two products are sufficiently homogeneous for  
18          them to be in the same market, for example, and there  
19          are essentially tests one can do.

20      A. Yes, we are not talking about it in those terms. We are  
21          saying does it make economic sense to be able to  
22          allocate a cost to one type of drug which sells in  
23          a pack that is a certain size to another drug that is in  
24          another kind of pack? It does not matter what is in  
25          there; it has a physical dimension, it goes through

1 a process of being sold, and I am saying that that sales  
2 process, the market you are selling into, its physical  
3 dimensions, that you have to order it, you have to sell  
4 it, are all sufficiently homogeneous to make sense of  
5 allocating a bunch of common costs to it. That is all.

6 PROFESSOR WATERSON: So this is a judgment, essentially.

7 A. It is a judgment.

8 MS BACON: Just picking up on that, did you look at all the  
9 different products within Flynn's portfolio to see what  
10 they were and why you thought they were sufficiently  
11 homogeneous?

12 A. I have looked at maybe it is Mr Walters' second witness  
13 statement, I think he has a schedule at the back that  
14 shows that there is a range of products, many of them  
15 sell in relatively the same pack sizes, there are a few  
16 that are outliers, I have observed that, yes.

17 THE CHAIRMAN: You were not here at the beginning of the  
18 hearing when Mr Brealey produced lots of different  
19 products?

20 MS BACON: He has them there, I think.

21 THE CHAIRMAN: I am not suggesting you bring them out!

22 I doubt that you had this aspect in mind when you ...

23 MS BACON: So is it your evidence that whatever Flynn sells,  
24 as long as it puts it in a pack, then it is sufficiently  
25 homogeneous?

1 A. For the allocation of common costs. Common costs are  
2 a small element of the total cost stack.

3 Q. Alright, but I am asking about common costs.

4 A. Yes, and I think because common costs are relatively  
5 small, and volumes are high across all products, that  
6 gives rise to a small allocation of common costs per  
7 unit, that to me seems sensible.

8 You will always find examples where you say: what  
9 about this product? But that is the nature of common  
10 costs. Whatever driver you use you will always find  
11 something that looks odd. The question is when you do  
12 the allocation does it look like a reasonable allocation  
13 to a particular product?

14 Q. So on that basis it does not even have to be a drug that  
15 Flynn puts in the pack; as long as it puts something in  
16 the pack then it is reasonable to allocate costs, based  
17 on that methodology?

18 A. As I said, Flynn sells drugs of certain pack sizes, many  
19 of them the same, there is a commercial logic in the way  
20 in which it packages drugs, and if those change then the  
21 allocations change and that is fine.

22 THE CHAIRMAN: I think if it supplied pay TV as part of its  
23 business that would not be sufficiently homogeneous.

24 MS BACON: Yes, possibly. Do you know what Collaguard is?

25 A. I know it only sells [figure redacted] packs.

1 Q. Do you know that it is a medical device?

2 A. Yes. Well, I will take your word for it.

3 Q. But you did not know before?

4 A. I know that [figure redacted] units of it are sold.

5 [figure redacted] is so small it does not matter how

6 I change the allocation of costs to [product redacted],

7 it is not going to change the cost to other products.

8 Q. I think we also ought to redact the transcript on that

9 basis because I am pretty sure that is a confidential

10 number as well.

11 MR HOSKINS: I think it is not really fair, because the

12 witness has been giving evidence in open court and

13 should not be constrained from doing so. So I think it

14 behoves counsel rather than Mr Harman. He should be

15 able to speak freely.

16 MS BACON: I alerted the tribunal and everyone at the start

17 to the fact that we need to avoid revealing confidential

18 information. I am making no criticism, but I think we

19 need to go back and deal with that on the transcript.

20 You have said that you do not look at homogeneity by

21 doing an empirical analysis other than the broadbrush

22 approach that you have just set out, and your point is

23 that if Flynn sells a medical device, or indeed on your

24 analysis presumably if it sold a sticking plaster or

25 something like that, as long as it is in a pack then

1           that is sufficient?

2           A. That is not quite what I said. I said that you would  
3           adopt a costs allocation, you would look how it  
4           allocates, and then you would stand back and say is that  
5           reasonable?

6           Q. Right, so can we look at how that allocates now. What  
7           we have is a comparison between the results of looking  
8           at Flynn's portfolio with a revenue-based allocation and  
9           a pack volume-based allocation. We now have that in  
10          some of the revised figures that CRA has produced.

11          Can I start with CRA 2. Bundle D2, page 24, figure  
12          7. Can I remind you the contents of this figure are  
13          confidential so we cannot say individual product names  
14          or percentages. I am trying to conduct this  
15          cross-examination in open court and I hope that we can,  
16          between ourselves, enable us to continue to do so  
17          because I do not want to have to keep going in and out  
18          of camera.

19          So this is the product contribution figure. Do you  
20          see here that all of Flynn's products make a positive  
21          product contribution?

22          A. A product contribution. Yes, I can see that.

23          THE CHAIRMAN: Can I be clear about this. If the percentage  
24          bars are anonymised is that confidential information?

25          MS BACON: I am being told if you do not link the names to

1           the percentages that is not a problem, neither would it  
2           be a problem to read out the names, but it is the  
3           linking of the two that is the problem.

4       THE CHAIRMAN:  The percentages are more interesting than the  
5           names.

6       MS BACON:  Yes, they are, although I think names will be  
7           important for the next series of questions that I have.

8       THE CHAIRMAN:  You must handle it as you think appropriate.  
9           It is your client's interests.

10      MS BACON:  If there is any point that you think I ought to  
11           be referring to in terms of the details that I am not  
12           saying in open court then please let me know.

13      THE CHAIRMAN:  I do take Mr Hoskins' point that you may ask  
14           your questions and Mr Harman may feel obliged to respond  
15           and he may not be thinking about the niceties of  
16           confidentiality when he does it.

17      MS BACON:  That is why I just reminded him of it.

18      THE CHAIRMAN:  But it is still not necessarily for him to do  
19           that.  He is the witness and you are asking him  
20           questions.

21      MS BACON:  Yes, but my questions are not designed to elicit  
22           an answer that might potentially transgress upon the  
23           confidentiality restrictions here.

24           So as a general proposition, do you agree that  
25           looking at whether products do make positive product

- 1 contributions is informative or is likely to be  
2 informative to a decision as to whether to continue  
3 a product line?
- 4 A. In the short-term, yes.
- 5 Q. Can you keep that open and take up bundle N and look at  
6 tab 10. Again, this contains confidential information.
- 7 A. Which chart am I looking at?
- 8 Q. It is the diagrams attached to the letter at tab 10.  
9 Did you see those diagrams?
- 10 A. Only briefly.
- 11 Q. Can you look at the first of the attached diagrams which  
12 is headed "Figure 3". If you put that side by side with  
13 figure 7 which I have just taken you to on page 24 of  
14 CRA 2, do you see that in each case the ROS figure, and  
15 that is on the new letter, is slightly higher than the  
16 corresponding product contribution figure?
- 17 A. Is not figure 7 a gross profit and we are looking at  
18 return on sales in figure 3?
- 19 Q. Figure 7 is product contribution. Gross profit is over  
20 the page.
- 21 A. Because in my figure 7, if I look at the ledger below  
22 the graph, it says "Gross profit including  
23 amortisation".
- 24 Q. Well, the notes underneath say:  
25 "Note 2. Product contribution takes account of the

- 1 following costs ..."
- 2 And it then explains. And the gross profit figures
- 3 over the page are different. So I think the ledger
- 4 might be wrong but --
- 5 A. But then I would be -- even if that was the case I would
- 6 be looking at profit contribution and comparing it to
- 7 return on sales which are different profit measures.
- 8 Q. I am just saying: do you see that the product
- 9 contribution is slightly higher than the return on
- 10 sales?
- 11 A. Yes, that would be ...
- 12 Q. And do you agree that that follows mathematically?
- 13 A. Yes.
- 14 Q. As in it is a necessary function of the way you do the
- 15 calculations that the product contribution will in all
- 16 cases be a bit more than the return on sale, and it will
- 17 differ by a constant across the different products?
- 18 A. Yes.
- 19 Q. If you turn back a few pages to page 18 of the CRA
- 20 report, you will see there their calculations of the ROS
- 21 of Flynn's products and this time with a volume-based
- 22 allocation?
- 23 A. Yes.
- 24 Q. Again please do not read out the names of the products,
- 25 but do you see that on this cost allocation, which is

1           yours, several products have a negative ROS and, in some  
2           cases, very significantly negative?

3           A. Yes, I see that.

4           Q. Do you agree that if a company were to look at this set  
5           of figures, so figure 3 in the CRA report, it might  
6           conclude that those product lines were unprofitable  
7           whereas what we actually know is that they make  
8           a positive product contribution?

9           A. They make a positive one. It does not answer the  
10          question if it is sufficient.

11          Q. Right. But if a company looked at this particular chart  
12          and it saw that several products were in negative ROS  
13          figures, it could conclude that those were unprofitable?

14          A. I think what it would conclude is that it needs to look  
15          into why they are negative, and you would have to ask  
16          the question --

17          Q. I was going to get on to that.

18          A. -- whether something needed to be done about it.

19          Q. So do you agree that the reason why those product lines  
20          would be considered unprofitable, using this method of  
21          cost allocation, is that they have large sales but  
22          fairly small absolute margins?

23          A. Yes, I would say that they are marginal products, and  
24          particularly they may not be doing well enough, is what  
25          I would take from these numbers.

1 Q. Right. But without ascribing a value judgment, is the  
2 problem that they have small absolute margins per unit  
3 pack but they have large sales? Large volumes of sales?

4 A. Yes.

5 Q. And that is why, on a volume-based cost allocation,  
6 their large volumes of sales, as in large numbers of  
7 packs out the door, gives rise to a cost allocation  
8 which puts them into negative ROS?

9 A. I think that is where we are differing in our opinion --

10 Q. I am not asking an opinion, I am just asking if you  
11 agree with the factual explanation. Because if you do  
12 not agree I can take you to the actual figures.

13 A. I understand the maths. What I am disagreeing with is  
14 the interpretation.

15 Q. I have not put forward any interpretation yet.

16 THE CHAIRMAN: I think he is disagreeing with the  
17 interpretation that you are going to put forward.

18 MS BACON: Well, he is a very talented mind-reader.

19 If you agree with the mathematical explanation for  
20 why these companies are in negative ROS, so they are  
21 products that have small absolute margins per pack but  
22 lots of packs out the door, so that means they are cheap  
23 but very popular products in terms of sales.

24 A. Yes.

25 Q. And now I am going to put the interpretation: one would

1           ordinarily think it would be a good thing for  
2           a pharmaceutical company to be selling cheap and popular  
3           products, but if Mr Walters were to look at the ROS for  
4           those products on your cost allocation method he might  
5           conclude that, as you said, something was wrong, so he  
6           might conclude that he should either discontinue those  
7           or put up their prices significantly.

8           A.   So -- and this is where we are going to disagree with  
9           the interpretation -- a finance director is not going to  
10          look, while making commercial decisions of product  
11          profitability, on one particular measure.  Let me give  
12          you an example of it from my own organisation.  I sit in  
13          a division that has equal numbers of people in them, and  
14          it is a fact that one of the teams has much higher  
15          revenue than the other, and both teams come together and  
16          we are (inaudible) on a common profitability measure.  
17          Let us call it 15 per cent.

18                 We do not allocate common costs to those two  
19          divisions on the basis of revenues, because if we did do  
20          that, we would be able to equalise the margins between  
21          the two businesses, and that would give false weight to  
22          one division doing as well as the other when it is not.  
23          We allocate our common costs actually equally to the two  
24          and then we observe that actually one division is less  
25          profitable than the other.  It follows obviously because

1           it has lower revenues.

2           What do we take from that? We do not sit there and  
3           say "We are closing you down, business", though some  
4           within my practice would like to do that, but that is  
5           not what happens. The solution is to say "You have to  
6           sell more revenue. You are under-performing on the  
7           revenue line". If we had done it on revenue we would  
8           have said everything is good. That is poor management  
9           information.

10          And that is exactly what we see here. There is  
11          nothing wrong with observing negative profitability  
12          based on volumes, and on a commercial basis I would  
13          probably allocate things on a number of bases and try  
14          and understand what is happening.

15          So what would I conclude on these two charts?  
16          I would conclude that under a volume basis it seems that  
17          some products are not performing well enough, they may  
18          be marginal products but there may be an underlying  
19          cause that says they need to be more profitable, they  
20          need to be able to stand on their own two feet.

21          The problem with a revenue basis is that it  
22          "shelters" -- this is the terminology Mr Williams  
23          uses -- it "shelters" products. It takes from the  
24          very successful, the Phenytoin, and I say that there  
25          may be a circularity issue when it comes to Phenytoin.

1 But there is like a reverse circularity issue as well in  
2 that the products that have low product contributions  
3 are not taking their fair share of revenues.

4 It is all okay if all the prices across all products  
5 have sensible prices, but if you have a portfolio where  
6 some prices are too low and some prices are too high  
7 then you do get this sheltering effect and it would give  
8 you false weight on your product profitability.

9 MR LOMAS: If you were, to take your hypothetical finance  
10 director, trying to decide whether you maintain  
11 a product or not, is not an important part of that  
12 decision whether it has a positive gross margin as  
13 making a contribution to fixed costs rather than whether  
14 it is profitable when you allocate the fixed costs?

15 A. Correct. I would say there is a two-step thing.  
16 Obviously in the short-term you carry on with the  
17 product if it is making a positive gross margin. That  
18 does not help us when it comes to looking at  
19 excessiveness but that is the commercial decision and  
20 that is what the industry does. But then there is the  
21 second question that says what about the medium-term,  
22 are these products actually contributing sufficient  
23 amounts? And there the revenue effect shelters, it  
24 desensitises the underperforming and actually lowers the  
25 profitability of the good ones as well.

1           I would say that is kind of unfair, hence you would  
2           test it on a number of bases. In a commercial context  
3           you would do that, in a commercial context.

4       MS BACON: If I might pick up on that. If you would test it  
5           on a number of bases in a commercial context why would  
6           you not do so in this context?

7       A. Because in this context there are two -- I guess there  
8           are two issues in a competition assessment. One is  
9           am I allocating too much common cost to a product that  
10          might be excessive? So there is this internal  
11          circularity. That is if you were looking at the  
12          excessive question. If you are looking at the predation  
13          question, that type of allocation would then be  
14          allocating too limited costs to that product so its  
15          average variable costs would be much lower.

16          So from a competition perspective, the revenue is  
17          potentially distorting what your view on average total  
18          or average variable costs are.

19       Q. I am going to ask about revenues, but the basic point is  
20          if you, on a ROS analysis, end up with results that are  
21          wildly divergent from the results that you would get on  
22          a gross profits or product contribution analysis, does  
23          that not tell you that there might be something  
24          fundamentally wrong with allocating common costs in that  
25          way?

1 A. Sorry, I got lost.

2 Q. If you do a ROS analysis, which you have done, and on  
3 CRA's figures that shows you that some products are  
4 extremely unprofitable, and we know that that is not the  
5 case if you look at product contributions and gross  
6 profits, does that not indicate that the volume-based  
7 allocation is not the right way to do it, or is not the  
8 only way that you should be doing the allocation?

9 A. I think it is perfectly fair to say that it is not the  
10 only way. I do not disagree with that. I disagree with  
11 the fact that you would say that volume is  
12 an inappropriate method because I think that the  
13 alternative revenue is biasing the allocation in  
14 an inappropriate direction.

15 If the question is then what approach would I fall  
16 back on if I was not to use the volume approach, then  
17 I think the adjusted equi-proportional mark-up approach  
18 would be a good approach to use because that controls  
19 for issues of pack sizes, but it also standardises the  
20 cost of goods sold so that the cost allocation is not  
21 biased by a particular drug that has a high unit cost.

22 MS BACON: I was going to come on to that.

23 Sir, that might be a convenient moment to break.

24 Just to let you know where I have got to, I have  
25 78 pages of notes and I am at page 45. On my

1 calculation I am doing about 15 pages every quarter of  
2 the day.

3 THE CHAIRMAN: It is rather like in a limited overs cricket  
4 match, you speed up towards the end, do you not?

5 MS BACON: Well, I am not sure if I am speeding up. I would  
6 estimate on that basis that I would be somewhere around  
7 the late 50s or 60 by the end of the day, maybe not  
8 quite as far, depending on how chatty everyone is in  
9 the second half of this afternoon.

10 THE CHAIRMAN: I hope you do not mean us.

11 MS BACON: I was using "everyone" in a very general sense  
12 there. I am conscious that Mr Brealey thinks he needs  
13 a couple of hours.

14 THE CHAIRMAN: I think we will carry on as we are and finish  
15 at 4.30 pm today and then we will take stock.

16 I take it, Mr Harman, there is no concept of excess  
17 profitability in your own organisation?

18 A. None whatsoever. Maybe predation.

19 THE CHAIRMAN: Thank you.

20 (3.19 pm)

21 (A short break)

22 (3.30 pm)

23 MS BACON: I come to the revenue basis of costs allocation.

24 Am I right in understanding from what you have just said  
25 that your reason for rejecting that in this case as not

- 1 being informative is the circularity point?
- 2 A. There are two points. Circularity is the first. The  
3 second component is prices are also made up of unit  
4 costs, and Phenytoin has a high unit cost, and my  
5 concern with that is there is no economic basis to  
6 allocate more common costs to products just because they  
7 have a higher unit cost.
- 8 Q. So in that case it is a kind of circularity. You say it  
9 is circular because the Pfizer supply price might have  
10 been too high?
- 11 A. I think again there are two points. One is the first  
12 point as you just say, but that is not the only point,  
13 irrespective of whether it is excessive or not. I am  
14 not saying that because it is excessive then the unit  
15 cost is excessive and that biases it. The second point  
16 is merely that the unit cost is much higher than the  
17 other drugs.
- 18 So if I just did a quick example, not using any  
19 drugs and numbers so that I am not in confidentiality,  
20 if one drug had a unit cost of 5 and another had a unit  
21 cost of 7, my question from an economic perspective is  
22 why would I allocate more cost to the product that has  
23 a unit cost of 7 versus one that is 5? It does not make  
24 any sense.
- 25 Q. Is this a general point or one just about Flynn's

1 portfolio?

2 A. It is a general point and it applies to Flynn's  
3 portfolio.

4 Q. So your general point is that in any portfolio of  
5 product, whether it is drugs or cup cakes or whatever,  
6 if you have some products that have high unit costs, you  
7 think it is inappropriate to allocate costs based on  
8 revenue?

9 A. I think that caution has to come into it. Again, let me  
10 give some context very quickly. The use of EPMU, which  
11 is a unit base, which -- I know it is not the revenue  
12 but it is the same issue as revenue in a regulatory  
13 context, was that when you were looking at different  
14 products they may have different activities. You might  
15 have manufacturing, sales, debt recovery, and the  
16 accumulation of those different activities, you may have  
17 had ten activities of different costs, the philosophy is  
18 that if you had a product that has more activities then  
19 it is consuming your common costs more.

20 It was not really addressing the fact, well what  
21 happens if one of those activities on an activity basis  
22 had much higher costs, because what we were dealing with  
23 in a regulatory context was differences between the  
24 prices that electricity users use from pre-payment to  
25 standard, and the difference in cost there was that

1 pre-payment had a pre-payment meter so it had an extra  
2 activity, and that extra activity consumed more common  
3 costs.

4 So I do have a problem that if unit costs are just  
5 higher and it has nothing to do with the number of  
6 activities that you are doing, then I think that could  
7 be distortive in the way in which you allocate costs.

8 Q. Does that not apply to pretty much any business which  
9 has multiple product lines, that in some cases the unit  
10 costs will be higher than others? So are you really  
11 rejecting a revenue approach in almost all cases on that  
12 basis?

13 A. I have never seen a revenue approach being used in  
14 normal commercial practice to allocate costs to  
15 products.

16 Q. We are talking about this particular sector where --

17 A. But we know --

18 Q. -- you have seen revenue, according to Mr Williams.  
19 Anyway, you have seen his evidence.

20 In your first report at paragraph 3.29 you refer to  
21 the circularity point and say that it is recognised in  
22 the Oxera report which you say was cited by Flynn.  
23 Maybe we should just turn that up. Could you be given  
24 bundle H1, please, and we will look at the Oxera report.

25 The Oxera report is at bundle H1/10. In

1 paragraph 3.29 you cite 6.18 of the Oxera paper. 6.18  
2 is the passage that you have cited at 3.29.

3 A. Yes.

4 Q. And that is where they refer to the potential problem.  
5 What they say at 6.19 is:

6 "The primary solution is to use a cost allocation  
7 method that reflects cost causality."

8 But then they go on to say at 6.20, a paragraph  
9 which you do not cite in your report:

10 "Where allocation on the basis of cost causality is  
11 not possible, other types of cost driver including  
12 value-based ones must be used."

13 That was the passage that Flynn cited.

14 A. Yes, but --

15 Q. So, sorry, I am just getting to the question. So your  
16 first report in the passages that we have already looked  
17 at had already concluded that in this case allocation  
18 based on costs causality -- you qualify that by saying  
19 in the short-term is not possible. And what you  
20 actually said in paragraph 3.10 was that:

21 "There is no direct link between common costs and  
22 levels of activity, ie cost causation."

23 If we assume that at least in the short-term  
24 allocation on the basis of cost causality is not  
25 possible, so we are in the scenario that is painted in

1 paragraph 6.20 of the Oxera report. Are they not making  
2 the point there that, in that scenario, if one cannot  
3 look to cost causality, other types of cost driver  
4 including value-based ones must be used?

5 A. No, I do not think so. I think 6.18 --

6 Q. But I am not asking you about 6.18. I am asking you  
7 about 6.20.

8 A. There is a flow between the paragraphs. I cannot answer  
9 6.20 without first addressing 6.18.

10 Q. I have asked you what 6.20 says.

11 A. 6.20 is talking about where cost causality cannot be  
12 applied then obviously you have to allocate them using  
13 some basis of allocation, including value-based ones.  
14 However, it has cautioned you at 6.18 that in doing so  
15 there may be a circularity.

16 Q. Yes, but --

17 A. That is my basic point, that sometimes revenue is fine,  
18 if it is not excessive then you might be able to use it,  
19 but there is a concern.

20 Q. Yes. So what they start off with saying, if you want to  
21 look at the flow, is that:

22 "Value-based cost drivers should be used with  
23 caution as a circularity problem may arise."

24 And then they say the cost causality principle  
25 should be used, and then they say it cannot be applied

1 to all common costs. So:

2 "Where it is not possible, other types of cost  
3 driver, including value-based ones, must be used."

4 Is this not really saying we appreciate that there  
5 may be a problem here, but if you cannot use cost  
6 causality, it may be necessary to use value based  
7 drivers, but there is no single correct method and so  
8 what you should is to cross-check?

9 A. Yes.

10 Q. So that is not rejecting a revenue approach as being  
11 uninformative or unreasonable, it is just saying in that  
12 case, if you have to use it because you cannot allocate  
13 on the basis of cost causality, just treat it with an  
14 appropriate degree of caution and use cross-checks to  
15 test your result?

16 A. Yes, but I think the problem is that value-based drivers  
17 include a number of different types of value-based  
18 drivers, revenue is one of those, and it has just told  
19 you that if you are using revenues then you should be  
20 cautious of using revenues but other value ones may be  
21 okay.

22 It then goes on to say that you can use incremental  
23 and stand-alone which are the cross-checks that I have  
24 performed.

25 Q. Actually it said value-based cost drivers should be used

1 with caution, it did not only say revenues. It said  
2 then:

3 "For example, if revenues ..."

4 So it was making a general point. I have taken you  
5 to that.

6 If you go back to your joint statement, you and  
7 Mr Williams then discuss the ways that one could  
8 cross-check for the potential circularity point in this  
9 case. If you look at page 11 of your joint statement,  
10 you are saying there that Mr Williams' sensitised  
11 approaches address the circularity problem but there are  
12 additional problems with both approaches.

13 I am not going to ask you about Mr Williams'  
14 sensitised approaches because that was put to  
15 Mr Williams in his cross-examination. I just want to  
16 look at your response here, and you are saying the  
17 sensitised approaches do address the circularity  
18 problem. But then your point, as I understand it, is  
19 that each of those suffers from its own problems?

20 A. Yes.

21 Q. Your first objection, and if we start with the first  
22 sensitivity analysis, which reduces Flynn's notional  
23 revenue to cost plus 6 per cent. My understanding is  
24 that you object that that calculates a new allocation of  
25 common costs based on the CMA's allocation of common

1 costs and you say that that is in some way circular, is  
2 that your --

3 A. I did not say that it is an unusual two-step process  
4 that I have never seen, and the ultimate allocation of  
5 common costs is based on how the CMA first of all  
6 allocated common costs. In my mind that cannot be  
7 rational.

8 Q. Do you agree that all Mr Williams is doing here is  
9 saying on his first sensitivity: you, CMA, think that  
10 a revenue cost allocation might be biased in favour of  
11 Flynn, because the Phenytoin revenues might be too high.  
12 So that is the Flynn bit of the revenues.

13 So let us, for the sake of argument, just base the  
14 cost allocation on a Phenytoin price that the CMA agrees  
15 would not have been excessive, is not that what he is  
16 doing?

17 A. No, because if you were going to do that you would use  
18 the cost stack that the CMA had actually used. What you  
19 are doing is you are taking the CMA's cost stack and  
20 adding a bit more common cost to it.

21 Q. So this is just to pare down the notional revenues to  
22 a figure that would not be excessive so as to remove the  
23 suspicion that the costs allocation might be tainted by  
24 Flynn's excess profitability?

25 A. I am saying that this two-step allocation of common

1 costs does not make any sense. In the joint meeting  
2 I said I have no problems with your second approach,  
3 that is a more rational approach. I still have  
4 a problem with it. But your first approach has this  
5 strange two-step cost allocation thing going on. I do  
6 not think it tells me anything additional to what your  
7 second one tells us.

8 Q. And what is your main objection to the second  
9 sensitivity then?

10 A. Actually there are two. The one that I quote here and  
11 one that I have just mentioned a couple of minutes ago.  
12 The point is that the second approach is effectively  
13 an EPMU approach but just for Phenytoin. Phenytoin is  
14 at cost without any profit in, and all the other  
15 products are based on their actual revenues. So you  
16 have revenue and you have cost.

17 Q. Can I just break that down. So your first point is that  
18 it is using a notional revenue for Phenytoin and not the  
19 actual revenue for other products?

20 A. No, it is using the actual revenues for other products  
21 and using a cost figure for Phenytoin.

22 Q. Sorry. Notional figure for Phenytoin and actual figure  
23 for other products?

24 A. Yes.

25 Q. Just pausing there, because I want to go through each in

1 turn. So that is a sort of a notional versus actual  
2 point. Does that not miss the point that it is his  
3 intention to distort the analysis but in a way that is  
4 unfavourable to Flynn? Because he says, well, take the  
5 actual revenue for everything else, so they get a cost  
6 allocation appropriate to their actual revenue, but for  
7 Flynn we are going to reduce that to a sensitivity which  
8 you agree does not include the circularity problem. And  
9 that would mean, would it not, that on that basis Flynn  
10 had an unfavourable cost allocation by comparison with  
11 his base case?

12 A. The circularity is removed for Phenytoin, and the cost  
13 stack for Phenytoin is potentially sensible but for the  
14 fact that I think the cost is overstated.

15 But there is another issue, and it is the point that  
16 I was making about the low revenue products sheltering  
17 the excessiveness as well, ie their profitability is too  
18 low. And it just struck me that when we were looking at  
19 the Oxera report in 6.18 it mentions that particular  
20 issue. It says:

21 "Likewise, excessively low profits tend to be  
22 overlooked as the lower prices means that lower costs  
23 are allocated to that particular line of business."

24 The consequence of that is more cost is allocated  
25 towards Phenytoin because their prices are not

1           particularly high. So that is the first issue.

2           Q. So it comes down to -- well, I am not sure what it comes  
3           down to. I will have to think about that and look at  
4           the transcript because I am not sure I am understanding  
5           the point you are making.

6                     Let us move on for the time being. As I understand  
7           it, your other point, and maybe this is the point that  
8           you have just been making, is that the revenue will  
9           include the supply price and that is the higher versus  
10          lower price point, is it?

11          A. I am not sure I follow that. But my second issue is  
12          that the Phenytoin cost stack is made up of its actual  
13          costs from Pfizer. That unit cost is extremely high in  
14          relation to the other products, and that alone allocates  
15          more costs. The issue is that when the Pfizer price  
16          changes, which it did significantly, then this approach  
17          would allocate significantly less to Phenytoin as  
18          a consequence. And I think why, as the unit price of  
19          Pfizer changes, should the allocation to Phenytoin also  
20          change? So there is a stability point there.

21          Q. That was the point I thought you were making. So if we  
22          are looking at Flynn's profitability -- and we are  
23          testing here Flynn's profitability, not Pfizer's  
24          profitability. If we are looking at Flynn's  
25          profitability, what is wrong with using Flynn's input

1 price, because Flynn actually did have to pay that input  
2 price, did it not?

3 A. I am not questioning the input price as being excessive  
4 and therefore you should not use it. The more nuanced  
5 point is that because it is very high, it is attracting  
6 much more common cost than it ought to. There is no  
7 reason, there is no economic reason to allocate more  
8 cost to a higher unit cost product. And there is  
9 a stability point that through time, as that changes,  
10 all the allocations of the business are going to  
11 radically change every time the unit cost changes of  
12 anything. And for me that does not fit with good  
13 allocating principles. Stability has to be one of them.

14 Q. Are you making this point about Pfizer's price. Are you  
15 saying that it distorts the analysis because it is  
16 excessive or just because it is high?

17 A. Because it is high.

18 Q. So your solution then is to -- this is your adjusted  
19 EPMU. Your solution is to reduce the notional revenue  
20 for Phenytoin to account for that and you reduce it to  
21 the CMA's cost plus cost plus, essentially, on both  
22 counts?

23 A. Yes, correct.

24 Q. So this is an excessiveness point, is it not?

25 A. No. What I am trying to say is -- and as ultimately

1           happened -- the price of Pfizer fell, and I am trying to  
2           replicate what that price would look like as the unit  
3           price changed. What I am trying to do with the adjusted  
4           EPMU is to standardise the distortion that is created by  
5           differences in unit cost. One could do that in  
6           a number of different ways. What I find that  
7           cross-check does is it gives me a very close answer to  
8           the volume-based approach and I think that is  
9           informative.

10          Q. Let us suppose we have a company with a supply line with  
11          lots of different products that have lots of different  
12          COGS, and let us suppose if you look at product  
13          contribution they all make about the same and you  
14          conclude on product contribution that none of those  
15          products was excessively profitable.

16                 If the CMA were to do a ROS analysis across that  
17          company's portfolio, and it used a revenue-based  
18          allocation but reduced the notional revenues to account  
19          for the fact that some products or, let us say, one  
20          product had a particularly high price, you agree that  
21          that would then decrease the cost allocation for that  
22          product and then it would proportionately increase it  
23          for the other products?

24          A. In your example it would.

25          Q. Yes. That would then have the effect of pushing up the

1           ROS for the product in question and it would depress the  
2           ROS for the other products in the portfolio?

3           A. In your hypothetical question, yes. But the assertion  
4           that you are putting to me is that if things change,  
5           cost allocations change, and of course they do. That is  
6           a consequence --

7           Q. So I am putting to you if you take the entire portfolio  
8           and you decide that some of the input prices are too  
9           high, in order to correct for that you do essentially  
10          what you have done in your EPMU and you push down the  
11          notional revenue for one product, then mathematically  
12          that increases the ROS for that product and decreases it  
13          for everything else. So the result of that, which is  
14          essentially what one does on your adjusted EPMU, that  
15          makes the disputed product look like it has a higher  
16          ROS, and so that might result in the ROS looking  
17          excessive even if, if you looked at a product  
18          contribution analysis, all of the products in the  
19          portfolio had exactly the same product contribution.

20          A. I have to say I am finding it difficult to follow the  
21          maths. If we had an example I might be able to follow  
22          that easier.

23          Q. The point is a simple one. If you take a load of  
24          products which have the same product contribution but  
25          different input costs, so their total revenues are going

1 to be different. You say some of those input costs are  
2 quite high. So you say you cannot do a normal  
3 revenue-based calculation so you reduce the notional  
4 revenues for the products where you have a high input  
5 cost. Mathematically that means that the ROS on those  
6 products where you have reduced the revenues goes up?

7 A. That would happen. I start by saying that no allocation  
8 mechanism is perfect.

9 THE CHAIRMAN: That is assuming the effect of the allocation  
10 of common costs is significant.

11 A. Correct.

12 MS BACON: Yes. And I was going to come to that point. So  
13 you say -- there is another point on circularity that  
14 I need to cover off but before I get to that. On this  
15 example, let us suppose that you are looking at Flynn  
16 and Pfizer, is not the effect of your adjusted EPMU to  
17 bump up Flynn's ROS without telling you about whether  
18 Flynn is making a ROS that is excessively high, because  
19 all you are doing is adjusting to compensate for what  
20 you think is a particularly high supply price?

21 A. What I am doing is observing that the unit cost did  
22 change and that the allocation of cost before that  
23 change was extremely high under a revenue-based or  
24 an EPM approach to Phenytoin. And I am asking the  
25 economic question: why should the allocation of costs

1 change when either price or unit cost changes when they  
2 have no relationship to cost causality? That is  
3 the simple point that I am making.

4 Q. You accept, do you not, that under the PPRS  
5 a revenue-based allocation is acceptable?

6 A. At the portfolio level.

7 Q. You have said in the joint statement that you think the  
8 potential for a circularity bias is limited because of  
9 the allowed return on sales under the PPRS?

10 A. Yes.

11 Q. Can I just look at what Mr Williams said about this in  
12 his cross-examination last week. Do we have  
13 a transcript bundle? Can I just give you Day 6 of the  
14 transcript. (Handed)

15 A. Thank you.

16 Q. Can you go to page 29.

17 A. Yes.

18 Q. Line 17, and can you read from there to page 30, line  
19 21.

20 A. Row number?

21 Q. So start at page 29, line 17. That was the question.  
22 Then read over to page 30, line 21. (Pause) I think  
23 Mr Williams was just describing what he thought you were  
24 doing and I just wanted to ask you if you agreed with  
25 his description of what he thought you were doing.

- 1 A. And the question?
- 2 Q. Did you agree with that?
- 3 A. The point that I am making is that because there is  
4 a target and an MOT associated with that, then if you  
5 are allocating on revenue at a portfolio level then the  
6 issue of circularity is likely to be constrained because  
7 you are constrained by those two targets. Therefore, at  
8 a portfolio level this issue with revenue is not the  
9 same as in this instance when we are looking at  
10 a potentially excessive price placed on revenue. That  
11 is the only point I am making.
- 12 Q. So do you agree with his point that your comment is  
13 predicated on a company having a single line of  
14 business, and that was selling branded medicines to the  
15 NHS, or do you not agree with that?
- 16 A. I am not quite sure what he is saying here. But if he  
17 is saying that the bit of the business which is outside  
18 the PPRS may be excessive, then yes. But then the  
19 circularity is going the other way. You would allocate  
20 more costs outside the PPRS than inside and obviously  
21 the department would be less concerned with that because  
22 it is beneficial for the products within the PPRS.
- 23 Q. Are you saying it is okay if the circularity goes one  
24 way but not the other?
- 25 A. I am saying that the concern for the Department of

1 Health, who has said that you can use a revenue basis,  
2 from its perspective obviously it is okay if the  
3 excessiveness is going in a different direction to what  
4 it is trying regulate.

5 Q. Is that anywhere in the PPRS that you are aware of?

6 A. Is what in the PPRS?

7 Q. The point that it is all right for an excessive amount  
8 of costs to be allocated to the other line of business?

9 A. You have asked me to interpret what Mr Williams has said  
10 here and I am trying to interpret what he says.

11 Q. You have just said the Department would not be worried  
12 about circularity going one way rather than the other.

13 A. You asked me a question. I am speculating as to whether  
14 they would be concerned or not.

15 Q. Alright. Just because in footnote 30 of your first  
16 report you quote from the PPRS where it is said that:

17 "Overhead costs and shared assets utilised in both  
18 NHS medicines and other products must be reasonably  
19 apportioned."

20 A. Yes.

21 Q. That does not seem to me to indicate that the Department  
22 is only concerned about excess in one direction. It is  
23 referring to both NHS medicines and other products?

24 A. If that is the case then it must be that Mr Williams is  
25 wrong in his statement. I do not see how both can be

- 1           the same. Both cannot be internally consistent.
- 2       Q. He is saying that he understands your concern to be  
3           predicated on a company with a single line of business  
4           because if you had two lines of business, then you are  
5           going to have to allocate costs as between the different  
6           columns of the AFR?
- 7       A. Correct.
- 8       Q. And in that case there would be a concern if one or  
9           other of those were tainted by excessiveness. So his  
10          point is if that is the case, then there is potentially  
11          this circularity problem that could potentially arise in  
12          the PPRS. But you have accepted that under the PPRS,  
13          a revenue-based allocation is acceptable?
- 14      A. No. You have just told me the PPRS would not allow the  
15          circularity but you are suggesting that Mr Williams is  
16          suggesting that the circularity can be, and I am saying  
17          that both positions cannot be the same, they cannot be  
18          both right. Either there is no circularity, which  
19          supports my point, or, if there is a circularity, the  
20          circularity cannot be within the PPRS because it has  
21          a target. The only remaining place for that circularity  
22          to be, on your logic, is outside the PPRS which would be  
23          beneficial for the products within the PPRS.
- 24      Q. I think the basic point is that although the problem can  
25          obviously arise in relation to a PPRS allocation,

1           because one has to allocate between different products  
2           that are inside the PPRS and outside the PPRS,  
3           nevertheless the Department considers it acceptable for  
4           there to be a revenue-based allocation and that is  
5           the point?

6           A. I would repeat the point I have just said. I think  
7           Mr Williams and what the PPRS is saying seems to be at  
8           odds.

9           Q. Your point is that you think that ultimately the lack of  
10          a problem boils down to the fact that under the PPRS,  
11          the prices are constrained by the 6 per cent?

12          A. I think there are two points. One is that it is  
13          constrained at the 6 per cent and the second is that it  
14          is allocating to a portfolio and not to individual  
15          products.

16          Q. Where in the PPRS does one see any recognition of the  
17          fact that some products will have higher input prices  
18          than others which is the problem that you raise in this  
19          case? Because in the PPRS equally there are many  
20          portfolios where there may be much higher prices than  
21          others, and nevertheless a revenue-based allocation is  
22          permissible.

23          A. I think this is the portfolio and averaging effect. If  
24          you have lots of unit costs across a portfolio then  
25          issues between unit costs average out. But when you go

1 to Flynn and you are looking at a small subset of  
2 products, and the one product of interest has a very  
3 high unit cost, then that is what causes a concern.  
4 Across a broad average between products outside the PPRS  
5 and products inside the PPRS, I think that average is  
6 likely to be averaged out and not be a concern, but it  
7 is definitely a concern once you get to a small company  
8 looking at 14 products.

9 Q. Is it not a general concern that products within the  
10 PPRS are likely to have much higher costs than products  
11 outside the PPRS? So when you are allocating -- when  
12 you, a company, are filling in your AFR and you are  
13 allocating between the PPRS column and the other column,  
14 are not you by definition likely to be allocating a far  
15 higher proportion of your common costs into the PPRS  
16 column because you are talking there about branded  
17 products which in general are likely to have higher  
18 prices than generic?

19 A. I think that is an assertion that you would need to look  
20 at the evidence. I think there are some branded  
21 products that are likely to have high costs and I think  
22 there are some branded products that are likely to have  
23 low costs, especially products that are off patent, do  
24 not have R&D, they are not having to pay for marketing  
25 anymore, versus generics that are entering into the

1 market and potentially have very high sales and  
2 marketing costs in trying to capture customers. So that  
3 is an empirical question and I cannot answer it without  
4 that data.

5 Q. But you did not do that empirical analysis?

6 A. I did not need to do that empirical analysis for my ...

7 Q. Can I ask you then to look at your alternative  
8 methodologies at paragraph 3.60. Again do not forget  
9 these figures are confidential.

10 So without referring to the actual figures, do you  
11 agree that those figures are predicated on, firstly,  
12 your cost pool and, secondly, the 6 per cent ROS?

13 A. Yes.

14 Q. So when you make your points about materiality in  
15 paragraph 3.62, of course that depends on what other  
16 parameters are used, does it not?

17 A. Yes.

18 Q. So can we just go through your different cross-checks in  
19 this paragraph. Starting with the revenue-based, and we  
20 have been through your reasons as to why you reject  
21 this, but just looking at the figure and picking up the  
22 point the chairman made about its significance, even  
23 predicated on your other assumptions being correct, do  
24 you agree that the scale of the difference between that  
25 and your base case, and without referring to the

1 numbers, indicates that the CMA's approach is quite  
2 significantly unfavourable to Flynn?

3 A. It does allocate more cost to the volume-based approach,  
4 though I would say that the difference is not  
5 particularly large and that is in part because the level  
6 of common costs as a function of other costs is  
7 relatively small.

8 Q. But it is a significant difference.

9 If we then go to EPMU, Mr Williams has said he did  
10 not have a problem with it but it leads to the same  
11 result as a revenue-based allocation so I am not going  
12 to ask you about that.

13 Then adjusted EPMU, and we have just gone through  
14 that as well and I think we probably do not need to ask  
15 any more questions about that. But do you agree, just  
16 looking at the figure there, that this approach is quite  
17 unfavourable to Flynn and even more so than your  
18 volume-based methodology?

19 A. It is more unfavourable but it has a benefit because one  
20 of the arguments that is raised about the volume  
21 approach is that if pack sizes change, then the volume  
22 approach does not adjust for that change but the  
23 adjusted EPMU does. So that tells us a little bit more  
24 about the volume-based approach. If it was true that  
25 this was an issue for the volume-based approach as you

1 change packs, then I would expect that when we go on to  
2 a cost-based approach, that is adjusting for the unit  
3 costs, I would get a fundamentally different answer.

4 And because I do not, I think the examples that have been put  
5 forward are likely not to bias the  
6 volume-based approach.

7 Q. Incremental. As I understand it, that means allocating  
8 no costs at all to Phenytoin?

9 A. Yes, it reflects the business reality of what happened.  
10 Phenytoin was introduced and the common costs did not  
11 change.

12 Q. But given that we are required to allocate common costs,  
13 and the CMA is allocating common costs, is that not  
14 a methodology that allocates no common costs at all to  
15 Phenytoin, quite uninformative as to what method of cost  
16 allocation is the right one?

17 A. It is in the standard tool kit. And when I was taken to  
18 Oxera earlier, the final statement said that you would  
19 cross-check by reference to incremental and stand-alone,  
20 so I have just followed the standard tool kit as to the  
21 range of things that we would consider.

22 Q. Stand-alone costs. That is based on allocating  
23 100 per cent of common costs to Phenytoin?

24 A. Yes.

25 Q. You say at paragraph 3.61 that:

- 1           "Flynn's prices are still materially higher than  
2           cost plus on this method of allocation."
- 3       A.   Correct.
- 4       Q.   So you agree that these calculations are based on your  
5           cost pool and the 6 per cent ROS.   So when you say  
6           "materially higher", you are talking about materially  
7           higher using two other parameters that are disputed and  
8           are unfavourable to Flynn, are you not?
- 9       A.   Yes.   What I am doing in this analysis is checking the  
10          CMA's findings, that the CMA's findings are not  
11          predicated on its choice of cost allocation.
- 12      Q.   And do you agree that the tribunal will need to look at  
13          whether the other parameters of the cost plus  
14          calculation are correct before it can make conclusions  
15          about the materiality of the excess?
- 16      A.   Yes, I agree.
- 17      Q.   Right.   The second point on this, when you say  
18          "materially higher than cost plus", what is your  
19          reference point for what is material?
- 20      A.   That is a good question.   From my auditing and  
21          accounting background, materiality to me is always  
22          material if it is between 5 and 10 per cent of profits.  
23          That is the benchmark that I personally use for  
24          materiality.   I think we must be clear here that I am  
25          not saying it is excessive, I am just saying the

- 1 difference is material in my professional judgment.
- 2 Q. Yes, and I am only asking about the materiality
- 3 . So have you tested what the standard
- 4 deviation is from average portfolio ROS figures in this
- 5 sector?
- 6 A. I have not, and I do not think that it would be
- 7 relevant, because what you would be finding in the
- 8 variability would be other factors, and those other
- 9 factors would be investment, risk, common cost. So if
- 10 you had a portfolio of ROSs, of comparables, then you
- 11 could look at the variability and that might tell you
- 12 something.
- 13 Q. Right. But you are using the PPRS as a comparable.
- 14 Have you even tested the variability of the PPRS
- 15 profits?
- 16 A. We know that it is bounded by the MOT at 9 per cent.
- 17 Q. And talking about individual products within
- 18 a portfolio, are you saying that you have any idea about
- 19 the variability of the profitability of individual
- 20 products, whether within or without the PPRS?
- 21 A. No, I have not. I do not think that is relevant to the
- 22 analysis I have done.
- 23 Q. So you are not saying material based on any standard
- 24 deviation analysis, you are simply saying it is above
- 25 a certain number which you have fixed at 5 to

1           10 per cent?

2           A. It is not a statistical calculation, no.

3           Q. I am going to come on to cost pool and I think that  
4           would finish the cost allocation issues. I hope to  
5           finish cost pool by the end of today and we might make  
6           some start on the gross profits.

7           So cost pool then. I think it is common ground that  
8           this is the second big issue with the cost allocation in  
9           this case?

10          A. It is.

11          Q. Is it correct to say that the dispute between you and  
12          Mr Williams is whether the amount of costs to be  
13          allocated under whichever method you choose should  
14          include the set of costs which relates to the sales and  
15          marketing expenses of products that are not Phenytoin?

16          A. Correct. It is about the allocation of costs which  
17          should be allocated to other products but are allocated  
18          to Phenytoin instead.

19          Q. Just to clear off another point, this is not  
20          a circularity point but it is a different point, is it?

21          A. I think it is a different point.

22          Q. Am I right to say that the dispute only concerns the  
23          situation where the benchmark ROS is drawn from the  
24          PPRS? So it is only if you are using 6 per cent or  
25          9 per cent or something like that drawn from the PPRS

- 1           that Mr Williams disagrees with you?
- 2       A.   At the beginning I went at pains to say that  
3           the 6 per cent being reasonable is not a PPRS  
4           6 per cent, it is a 6 per cent based on --
- 5       Q.   I was not asking you about that --
- 6       A.   I am going to come on to --
- 7       Q.   -- I was asking you about the scope of the dispute  
8           between you and Mr Williams, and Mr Williams  
9           understands, and I am just seeing if you also  
10          understand, Mr Williams' point is that he only puts  
11          forward his alternative higher cost pool in the  
12          situation where you are looking at the 6 per cent or the  
13          9 per cent.
- 14      A.   But, to finish, the scope of the dispute is that I do  
15          not recognise a PPRS scenario because I do not have  
16          a PPRS benchmark.  It is an "in the round".  So then  
17          when we come on to Mr Williams, then I agree in his  
18          world, when he is looking at the PPRS, he believes that  
19          the 6 per cent is from the PPRS and therefore must be  
20          constrained by the rules of the PPRS.  But that is not  
21          a scenario that I run or consider.
- 22      Q.   Let us assume against you that the tribunal finds that  
23          the 6 per cent is drawn from the PPRS, and I have put  
24          all those points to you and I am not going to go over  
25          that.  If the tribunal finds the 6 per cent is drawn

1 from the PPRS, you have said at various times that the  
2 PPRS looks to portfolio of products. So do you agree  
3 that, in broad terms, what you do under the PPRS is to  
4 put all the costs for all of the branded products sold  
5 by the particular company to the NHS together?

6 A. Yes.

7 Q. Put all of the revenues from those together?

8 A. Yes.

9 Q. And see whether overall, and taking account of the  
10 various allowances and adjustments that are in  
11 Mr Williams' report, the aggregate profits are within  
12 the permitted levels under the scheme?

13 A. That is what he is saying but --

14 Q. I am just asking you if you agree with that --

15 A. But there is an aspect to that which I have to  
16 highlight. Because he has chosen to isolate a degree of  
17 common costs which are attributable but, under his  
18 argument of a portfolio approach, it applies to all  
19 costs. So at the level of abstraction, what Mr Williams  
20 is saying is we are going to allocate all costs --  
21 should be saying we will allocate all costs --

22 Q. Could I finish my line of questions?

23 THE CHAIRMAN: Answer the question, when it comes.

24 MS BACON: So we have agreed as to what the PPRS is doing.

25 Breaking down the costs that would go into that mix, and

1 I was coming to exactly the point you are making, do you  
2 agree that the costs that go into the mix under the PPRS  
3 would include all of the sales and marketing costs of  
4 all of the branded products as well as an appropriate  
5 allocation of the common costs of the company?

6 A. Yes, all costs ...

7 Q. Of the branded products.

8 A. Of the branded products. But then what you have just  
9 said is the key point; a reasonable, appropriate  
10 allocation of common costs.

11 Q. I was not asking about the common costs --

12 THE CHAIRMAN: I am beginning to see an element of  
13 circularity in this line of questioning.

14 MS BACON: Let us see where it goes. When you are doing  
15 a PPRS and you split between your branded products and  
16 your other products and you put into the branded pot all  
17 of the costs for that, including the sales and  
18 marketing, so all of the sales and marketing costs  
19 attributable to those branded products and you put in  
20 an allocation of common costs, and we are agreed on  
21 that. Let us assume that Flynn had prepared an AFR for  
22 its branded products, which we know it did not because  
23 it is below the threshold but let us assume it did, and  
24 let us assume that Phenytoin was a brand so that its AFR  
25 included Phenytoin.

1           Do you agree that what it would put in the cost  
2           boxes for that AFR on the branded column would include,  
3           firstly, an allocation of Flynn's common costs, which in  
4           Mr Williams' evidence would be by revenue?

5           A. Correct.

6           Q. Yes. And it would also include all of the sales and  
7           marketing costs attributable to all of the branded  
8           products in Flynn's portfolio?

9           A. On a direct basis, yes.

10          Q. Yes. So do you agree that, when the PPRS calculation is  
11          done, it does not look at the profitability of just one  
12          product but it looks at aggregate profitability?

13          A. Yes.

14          Q. So is it right to say that if one product has  
15          particularly high costs and another has low costs, in  
16          the context of the PPRS that all comes out in the wash  
17          because what the Department is looking at is aggregate  
18          profitability?

19          A. At a portfolio level, yes.

20          Q. So is the basic problem not that, if you pluck  
21          an individual product at random out of the portfolio  
22          such as in this example Phenytoin, if we had assumed  
23          that it had been in that portfolio of branded products,  
24          if you just look at its own direct costs and revenues  
25          plus an allocation of common costs, whether or not that

1 individual product looks like it is very profitable or  
2 very unprofitable will depend on whether it has high  
3 sales and marketing costs or none at all?

4 A. It would at a portfolio level. But, from an economic  
5 perspective, it can never be the case that you would  
6 allocate directly attributable costs for one product to  
7 another. So I understand the construct, but I am saying  
8 from an economic perspective in a competition assessment  
9 it is meaningless.

10 Q. I am assuming against you that we are comparing with  
11 something derived from the PPRS. So would it be fair to  
12 say that the effect of looking at profitability across  
13 a portfolio under the PPRS is that profits that might,  
14 when taken individually, be too profitable under the  
15 PPRS rules are shielded by the other products which have  
16 higher costs, so that nothing then across the whole  
17 range is too profitable?

18 A. You are right, and the key word there is "shielded"; you  
19 are shielding the excessive profits of one product  
20 against the lower profits of another.

21 Q. That is what the PPRS does. So returning to this case,  
22 when Mr Williams includes within his cost pool  
23 an apportionment of Flynn's overall sales and marketing  
24 costs is he not simply trying to correct for that  
25 shielding problem by taking account of the fact that

1 under the PPRS, if Phenytoin had been within the PPRS,  
2 the Department would have looked at the costs and  
3 revenues of the portfolio as a whole?

4 A. Yes. You are saying that the Department would look at  
5 the portfolio, but we are worried about the  
6 excessiveness of an individual product. We never say  
7 that the portfolio is the right metric, we say the  
8 6 per cent is. It does not allocate to individual  
9 products and, because it does not allocate to individual  
10 products, we cannot actually use the PPRS scheme to  
11 understand what it would be at a product level, because  
12 it does not do it.

13 Q. But if you are trying to use a portfolio ROS, is not  
14 Mr Williams' correction a reasonable correction to make  
15 so that you are comparing like-with-like?

16 A. From an economics perspective, I cannot answer that  
17 question. We are trying to work out the excessiveness  
18 of a product, not the excessiveness of Flynn.

19 MS BACON: Sir, that concludes my questions on cost  
20 allocation. I am told that the clock is running ten  
21 minutes slow, so it is actually 4.20 pm. I am grateful  
22 to those behind me for pointing that out. If the  
23 tribunal has questions on cost allocation, then I will  
24 pause there.

25 THE CHAIRMAN: I think you can proceed.

1 MS BACON: I will proceed. We are now on to gross profits.

2 Let us go to gross profits and start with some general  
3 questions. Could we look at paragraph 4.76 of your  
4 first report.

5 A. I have that.

6 THE CHAIRMAN: We are just discussing the time. Chatting.

7 MS BACON: A favourite English pursuit. Paragraph 4.76,  
8 that is your graphical presentation of the various  
9 different gross margin estimates and, as I understand  
10 it, Phenytoin is the black line?

11 A. Correct.

12 Q. Just to confirm, the third bar along, which is a blue  
13 bar, that is a range that is not drawn from a specific  
14 group of companies but, as I understand it, that  
15 represents the range drawn from various of Mr Davies'  
16 comments that are summarised in paragraph 4.79. Is that  
17 correct?

18 A. Yes, I think so.

19 Q. Just a definitional question, by gross profits do you  
20 mean revenues minus COGS?

21 A. Yes.

22 Q. Do you agree that gross profits have an advantage over  
23 looking at a ROS analysis in one respect, namely, that  
24 measurement does not require a cost allocation exercise?

25 A. Does not for what purpose?

- 1 Q. If you look at gross profits, you do not have to do  
2 a cost allocation exercise, do you?
- 3 A. Obviously the profit does not have an allocation of costs  
4 but it has a disadvantage that, if you are doing a cost  
5 plus, it tells you nothing about the other components of  
6 the cost stack that you have to include in your  
7 analysis.
- 8 Q. I am looking at the different measures of profitability  
9 that one can use, and the point about you doing  
10 a cost plus is that you have to find the plus and you  
11 derive that from the ROS and, in order to find the ROS,  
12 you have to do an allocation of common costs. But the  
13 point is that -- if I can just finish my question -- if  
14 you have a problem with the cost allocation and it is  
15 uncertain, you might want to look at gross profits too  
16 as a measurement, because that does not have a problem  
17 of cost allocation.
- 18 A. Yes, but caveated. If you are looking at gross profits,  
19 mathematically it implies that, if you were to allocate  
20 common costs, you would allocate them in proportion to  
21 gross profits. Basically you would take the gross  
22 profit line of each of your -- in absolute terms, and  
23 you would allocate your costs, your common costs on that  
24 basis. That would give you the same rankings  
25 proportionately as this type of analysis. So embedded

1           in the gross profit analysis is an "implicit" cost  
2           allocation, if you were to take it forward for the  
3           purposes of cost plus.

4       Q.   But mathematically there is not a direct relationship  
5           there?

6       A.   No, there is a direct relationship between them, but it  
7           is based on allocating on gross profits.

8       Q.   Would you agree with this: if you are using a ROS  
9           analysis and if it turned out that the cost allocation  
10          under that is somewhat uncertain because you know  
11          for example that there is no cost causality for the  
12          common costs, or because there was some doubt as to  
13          whether a particular cost allocation was meaningful for  
14          the product or the industry, then would you agree that  
15          it would be at least informative to look at other  
16          approaches to assessing profitability?

17      A.   Yes and no.  The problem is with gross profits -- not  
18          the problem actually, gross profits, contribution and  
19          the ROS all point in the same direction.  If you are  
20          going to use any of these measures in the way in which  
21          the appellants want to use them, they all point in  
22          the same direction.  You could use gross profits,  
23          contribution and ROS.  They would all give you the same  
24          answer because the answer would be: well, actually, when  
25          I compare profits to these comparators, Phenytoin does

1 not look excessive. The problem is, if you look at  
2 gross profits and then contribution and direct, the  
3 problem is that they are all telling you the same thing  
4 and you are placing fake weight on it because you are  
5 just timesing the observation by three. The problem  
6 with gross margins is exactly the same for ROS though.  
7 It is not about the allocation of common costs, it is  
8 that you still have to adjust for investment, risk,  
9 volumes and unit costs. All of those factors that  
10 impact the ROS analysis also impact the gross margin and  
11 contribution analysis.

12 Q. I think you just said if you looked at all of those  
13 different measures, gross profits, product contributions  
14 and ROS, they would all point in the same direction and  
15 that Phenytoin does not look excessive on all of those  
16 measures.

17 A. But let me caveat so that is not taken out of context.  
18 What I am saying is they are pointing in the same  
19 direction, but I do not take them as good comparators  
20 because of those four dimensions.

21 Q. Yes, I was going to come on to that point. I was just  
22 clarifying what you were saying. Did Mr Lomas have  
23 a question?

24 MR LOMAS: No, it is fine.

25 MS BACON: You accept that, if you look at any of those,

1           they point in one direction only, which is that  
2           Phenytoin does not look excessive. So your answer then  
3           is to say: there is a problem because you do not think  
4           that they are good comparators and gross margins of  
5           other generic companies are.

6           A. That is not quite true, because when we have Flynn's  
7           products, we do adjust for unit cost differences and  
8           volumes and, when you take into account those two  
9           fundamental issues, Phenytoin looks like an outlier. So  
10          it is not just --

11          Q. I am going to come to your outlier analysis. If I could  
12          just pursue this line of questions, and you will have  
13          your say on the outlier analysis. In relation to  
14          Mr Williams' evidence, if we start there on comparators.  
15          Can you look at paragraph 4.77 of your first report.

16          A. Yes.

17          Q. You say at the end of that paragraph:

18                 "For seven of the nine comparators Mr Williams does  
19                 not comment on their comparability to Phenytoin."

20                 Are the two that you do not mention Alliance and  
21                 Martindale?

22          A. Correct.

23          Q. Can we look at what Mr Williams says about Alliance and  
24          Martindale, and I am conscious that the Chairman wants  
25          me to stop. Can we look at Williams 2. That is at

1 tab 12 of bundle D, paragraphs 37 and 38.

2 A. Yes.

3 Q. He comments on Alliance and Martindale in those  
4 paragraphs and he refers back to his first report. So  
5 we should also look at what he said in his first report  
6 in the previous tab, and that is at 73 to 82.

7 A. Sorry, can I have the reference again?

8 Q. Yes, the previous tab, so that is tab 11, paragraph 73,  
9 page 18 to paragraph 82 on page 19. Those are the  
10 paragraphs where he comments on Alliance and Martindale  
11 and explains why he thinks they are good comparators.  
12 Just to remind you that his first report was the  
13 evidence submitted in response to the statement of  
14 objections.

15 You will have read his evidence in both of those  
16 reports and you can see from those passages that  
17 Mr Williams explains why, in his expert opinion,  
18 Alliance and Martindale are good comparators for Flynn  
19 because of their particular business model, and I just  
20 want to check one point. You have not disputed  
21 Mr Williams' evidence on those points in your report,  
22 have you?

23 A. I think I say two things. I say, with respect to  
24 Alliance, I observed that it does contain patented  
25 products within it and Martindale I point out that it

1 includes manufacturing. The second point that I say in  
2 my reports is that he does not make any assessment of  
3 what the relative risks and investments and levels of  
4 volumes and unit costs.

5 Q. That is a general point that you make, but he has given  
6 here expert evidence that, in his view and from his  
7 experience in the pharmaceutical industry, those are  
8 good generic company comparators to Flynn. Your  
9 expertise does not enable you to dispute that  
10 conclusion, does it?

11 A. Only the points that I have raised in objection to them;  
12 that they clearly have manufacturing. So I think  
13 because it includes manufacturing, I think that that  
14 definitely takes it straight out because, as we know,  
15 under the PPRS that accounts for 13 per cent of profit.  
16 So that would be profit not available to Flynn. So  
17 Martindale is definitely out, in my opinion. That  
18 leaves Alliance, and we know that it includes a patented  
19 drug and I do not know how that distorts the figures.

20 Q. So you are saying that any company that has some  
21 manufacturing cannot be a good comparator to Flynn?

22 A. No, because it would have different sets of activities  
23 that it would warrant a return on.

24 Q. What about all the companies in the PPRS?

25 A. But they are all included within Flynn's cost of sales.

1 It already has that profit baked into the cost of sales  
2 line. Where it would not be if Martindale has  
3 a manufacturing company in the UK. In effect, its cost  
4 of sales would be lower because it would not be  
5 receiving a transfer price that included manufacturing  
6 plus a profit, which we discussed earlier today.

7 Q. The PPRS does not really make any distinction according  
8 to whether a company has a manufacturing base or not,  
9 does it? The local ROS is the local ROS whatever it is?

10 A. Yes. My point is that, if you are looking at Flynn and  
11 you are looking at Phenytoin, its cost of goods sold  
12 includes a manufacturing cost and a profit component  
13 from the overseas company, Pfizer, and I am looking  
14 at Martindale, then its cost of goods sold is just the  
15 manufacturing cost, it does not sell to itself including  
16 a profit margin. So that is why you get a distorted  
17 view looking at a company in the UK that is integrated  
18 versus one that is across geographical bounds governed  
19 by a transfer price.

20 Q. But of course there will be some companies in the PPRS  
21 that maybe do not submit AFRs but which are  
22 manufacturing companies. How do you say the PPRS then  
23 is a good comparator for those?

24 A. We went through this this morning again. The answer to  
25 that is, on the PPRS, what is relevant for our analysis

1 is the target 6 per cent rather than what the out-turn  
2 actually is. We know the out-turn will be bounded by  
3 the 9 per cent MOT. So I think we are consistent in our  
4 analysis.

5 MS BACON: That is probably a convenient point to stop. Do  
6 you want to take stock on where we are?

7 THE CHAIRMAN: Where are we?

8 MS BACON: I have about 20 more pages which, on today's rate  
9 of progress -- actually, I am at page 60, so that is  
10 exactly 15 pages every quarter of the day. That would  
11 suggest, with as fair a wind as we have had today, that  
12 I should be finished by lunchtime tomorrow. If there is  
13 a concern about the fairness of the wind we could --

14 THE CHAIRMAN: Before lunchtime, with a fair wind.

15 MS BACON: Yes.

16 THE CHAIRMAN: We are mixing our metaphors here.

17 MS BACON: We could start earlier or we could start at  
18 10.30 am.

19 THE CHAIRMAN: One thing we cannot do is finish late  
20 tomorrow, because I have another commitment. I would  
21 hesitate to put that on the table, but I have.

22 MS BACON: It is right that you do, sir.

23 THE CHAIRMAN: So 4.30 pm to finish.

24 MS BACON: So 4.30 pm to finish.

25 THE CHAIRMAN: Mr Brealey?

1 MR BREALEY: I do not do cross-examination by pages, but  
2 I will be an hour and a half.

3 THE CHAIRMAN: You should try it. A new technique.

4 MR BREALEY: I think if we start at 10.30 am we will be  
5 fine.

6 THE CHAIRMAN: You do. Mr Hoskins, will there be lots of  
7 re-examination?

8 MR HOSKINS: No. I am not going to detain you, from what  
9 I have heard today.

10 THE CHAIRMAN: As long as you understand that we have to  
11 finish at 4.30 pm. So 10.30 am it is.

12 Mr Harman, you are in purdah overnight. I am sure  
13 you know you cannot talk to anybody about anything.

14 (4.33 pm)

15 (The hearing adjourned until 10.30 am on Tuesday,

16 14 November 2017)

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