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IN THE COMPETITION

Case No: 1524-1525/1/12/22

APPEAL
TRIBUNAL

Salisbury Square House
8 Salisbury Square
London EC4Y 8AP

Monday 6th November – Friday 1st December 2023

Before:

The Honourable Mr Justice Marcus Smith
Eamonn Doran
Professor Michael Waterson

(Sitting as a Tribunal in England and Wales)

BETWEEN:

Appellants

**Pfizer Inc. and Pfizer Limited & Flynn Pharma Limited and Flynn
Pharma (Holdings) Limited**

V

Respondent

Competition & Markets Authority

APPEARANCES

Mark Brealey KC, Robert O'Donoghue KC & Tim Johnston (Instructed by Clifford Chance LLP) on behalf of Pfizer

Jemima Stratford KC, Tom Pascoe & Alastair Richardson (Instructed by Macfarlanes LLP) on behalf of Flynn

Josh Holmes KC, David Bailey, Jennifer MacLeod, Julianne Kerr Morrison
& Conor McCarthy
On Behalf of the Competition & Markets Authority

Monday, 27 November 2023

(10.01 am)

MR GREG HARMAN (recalled)

THE PRESIDENT: Mr Harman, good morning, welcome back. You are still under oath, so we will not be swearing you again. Do you have water and everything you need?

THE WITNESS: I think so, yes, thank you.

THE PRESIDENT: It takes me by surprise, it will probably take you by surprise: you are not going to get your usual questions about your expert reports because that has already been done and I keep forgetting that and I am always surprised when the person calling the witness has no questions, but they will have no questions, it is straight into cross-examination, just so you are prepared, I am now.

THE WITNESS: Thank you.

Cross-examination by MS STRATFORD

MS STRATFORD: Good morning.

Good morning, Mr Harman.

A. Good morning.

Q. My understanding from your CV, and also from the evidence we have heard in the hot-tub and during your teach-in, is that you are an accountant and an economist rather than someone with practical experience of working in the pharmaceuticals industry. I think that is fair,

1 is it not?

2 A. I think that is fair. I have worked on, obviously,
3 a number of cases in the UK, and I am working on
4 a number of cases in South Africa, but I would not say
5 that I am an industry expert, correct.

6 Q. Thank you. You said in your teach-in you have around
7 31 years of experience, primarily in the areas of
8 competition, regulation and, to quote, "importantly for
9 some of my teach-in, around valuations", and if I may
10 say that came across very clearly from your teach-in,
11 and I just want to be clear -- and this is not
12 a criticism -- but you do not have direct experience of
13 setting a price for medicines?

14 A. I have not set retail or wholesale prices acting on
15 behalf of a pharmaceutical company, correct.

16 Q. Thank you. So then I want to begin, if we may, by
17 seeing if we can agree the architecture of the decision
18 against Flynn as regards excessiveness.

19 If we could please get up the Decision, the Remittal
20 Decision at {XA1/1/148}, and I want to look at
21 paragraphs 5.2 to 5.3, please, where it says, I will
22 just read it:

23 "... the first step in establishing Cost Plus is to
24 determine the costs that each Party incurred in
25 producing and supplying their products. This includes

1 costs directly incurred in the supply of Capsules and an
2 appropriate apportionment of indirect costs, such as
3 corporate overheads."

4 Then carrying on:

5 "After establishing the costs actually incurred,
6 a reasonable rate of return should be estimated and
7 added to total costs, to determine Cost Plus."

8 So to state the obvious, cost plus means cost plus
9 a reasonable rate of return, so the reasonable rate of
10 return is the plus, and then -- I can see you are
11 nodding. If you could say "yes" for the transcript that
12 would be fantastic.

13 A. Of course.

14 Q. Thank you.

15 A. Yes, it includes a reasonable rate of return, and
16 I think that the return that has been included provides
17 a proxy for a return that we would expect in a normal
18 and sufficiently effective competitive market.

19 Q. Thank you. I can assure you I am going to come to that.
20 I am just laying the groundwork now.

21 If we could go on to {XA1/1/160}, this is
22 paragraph 5.120. I am sorry, is that a wrong reference?
23 I am sorry, it is page {XA1/1/175} of that same tab at
24 5.120, and the Decision there confirms, you can see,
25 that the CMA has applied the ROCE methodology to

1 establish a reasonable rate of return for Flynn's
2 products.

3 A. I see that.

4 Q. Moving on, then, to -- I hope this is right -- page
5 {XA1/1/208} -- I think that one is correct -- 5.277,
6 there it is saying that the CMA's reasonable rate of
7 return for Flynn is a 10% return on capital based on
8 a 10% cost of capital.

9 Now, we are going to unpack that later. For now
10 I am just -- what I am doing is just trying to agree the
11 scheme of the Decision.

12 The next bit I want to go to -- and this is the
13 last -- well, nearly the last bit of the Decision
14 I think we should look at for this point -- page
15 {XA1/1/236}, please, at paragraphs 5.395 to 5.396 and in
16 particular, Table 5.17 that you will be very familiar
17 with.

18 So what the CMA is doing is adding its reasonable
19 rate of return to Flynn's costs in order to calculate
20 the excess returns that it is said to have made over the
21 relevant period, and we are familiar by now, we have the
22 overall excess across all four strengths, 47%, the
23 excess for the most popular 100mg strength is 37%,
24 and -- just to check you are obviously aware that the
25 CMA found four separate infringements in respect of four

1 separate strengths, so we do have to consider the
2 figures individually, and it should not be controversial
3 that these excess figures are based on the CMA's
4 reasonable rate of return of 10% ROCE. Do you agree
5 with that?

6 A. That is right, save to say that the CMA also does
7 a number of sensitivities where it tests the base case
8 that is set out in this table.

9 Q. Yes. Again, I am going to come back to that.

10 A. Okay.

11 Q. I also do not think it should be controversial that as
12 a mathematical fact, if Flynn's reasonable rate of
13 return were to increase, so if its plus went up, Flynn's
14 alleged excess would decrease. Can we agree that,
15 please? Just mathematically.

16 A. I mean, all else being equal, mathematically, yes, that
17 is correct.

18 Q. Yes, thank you. The CMA has then performed
19 a cross-check based on a 6% ROS, return on sales, and
20 has produced alternative excess figures based on that
21 reasonable rate of return, and this, if we could go to
22 page {XA1/1/240} of the same tab, please, it is at
23 Decision paragraph 5.414, and I can see you are nodding,
24 so you agree that is what the CMA was doing here,
25 I think?

1 A. Yes, that is what it is doing, correct.

2 Q. Thank you. Your evidence at a very high level -- and we
3 are going to come to the detail later -- is that the
4 CMA's findings on Flynn's plus were reasonable ones from
5 an economic perspective; is that a fair summary?

6 A. I mean, that is a fair summary of my conclusion, but
7 there are other factors that go into the overall
8 finding. As you know, the CMA also considered a variety
9 of measures such as absolute returns, and actually, in
10 my second last slide of my teach-in, I showed that under
11 a variety of different considerations, phenytoin
12 capsules looked unusual in comparison to other
13 benchmarks. So these findings are supported by other
14 lines of enquiry.

15 THE PRESIDENT: What do you define as an absolute return?

16 A. So an absolute return, when I say "absolute returns",
17 for example, what the CMA did was to consider, for
18 example, other products within Flynn's portfolio. It
19 calculated an absolute return such as a gross margin per
20 packet or gross margins in total and observed that
21 phenytoin capsules on those dimensions were
22 significantly different from other comparators within
23 the Flynn portfolio.

24 THE PRESIDENT: I see, so you left return out of account
25 altogether and you just looked at relative margins of

1 different products as sold by Flynn?

2 A. Correct. Importantly, controlling for volume and input
3 costs, I am sure that we will come back to that, but
4 some of the products, for example, within Flynn's
5 portfolio selling very small volumes, so one of the
6 drugs sells something like 167 units.

7 THE PRESIDENT: Yes, and I think it is accepted, but let us
8 get it on the record so that it is clear, that the level
9 of return that you should get is in some way
10 volume-dependent in that if you are selling very few,
11 you ought to get more than if you are selling
12 squillions.

13 A. That is absolutely the case. So if you think about
14 supermarkets, Sainsbury's, it has a very, very low
15 margin, I worked on Interchange, I know that you have
16 signalled a desire to question me at some point on the
17 weighted average cost of capital. The margins in those
18 businesses are very, very thin, they are like 3%.

19 Go to the corner store, prices are higher, and the
20 returns have to be higher because you have to recover,
21 you know, your capital costs over a much smaller volume,
22 and so that is one of the central points here is that
23 phenytoin capsules sells in very high volumes relative
24 to most of the products in its portfolio.

25 THE PRESIDENT: But is it just to do with the spreading of

1 the common costs? I mean, I completely understand that
2 if your common costs that are not variable costs are
3 very high and you allocate them to a very small volume
4 of sales, that allocation will have to be quite high
5 because --

6 A. Correct.

7 THE PRESIDENT: -- you have only got a small volume of
8 sales, so I understand that, but is that the only factor
9 in play? I mean, is there a sense that if I am only
10 going to be selling three widgets as opposed to very,
11 very many widgets, then it is just not worth the candle
12 selling three widgets even if I am getting a rate of
13 return that would be perfectly acceptable if I am
14 selling very many widgets?

15 A. Well, I mean, I guess if you were selling Chippendale
16 widgets then maybe because of the brand differentiation
17 you would be able to sell only three and extract the
18 price that you need.

19 But I think the one part that is missing, it is just
20 not common costs, but it is the return that you require.
21 So in your example of widgets, if I was to buy
22 a premises to do my woodwork, if I was only -- and,
23 you know, one is producing three widgets but highly
24 decorative ones, and the next door unit, same size, is
25 making standard widgets and in much higher volumes, then

1 the price is going to be lower, not just because of the
2 common costs but because my overall profit that
3 I require from investing in my plant is also allocated
4 over more volumes.

5 So it is both fixed and common costs and the
6 required return that I need.

7 THE PRESIDENT: Right, but those are the only parameters
8 according to you? Volume does not otherwise play a role
9 in the decision of an entrepreneur to produce or not
10 reduce a particular good for a particular rate of
11 return?

12 A. I think they are primarily the two that I can think of
13 right now.

14 MS STRATFORD: Thank you.

15 Thank you, sir.

16 It may help the Tribunal and Mr Harman, possibly
17 reassure you, to know I am going to come back to -- so
18 a number of your answers have -- you have been
19 understandably, perhaps, pushing back and saying, well,
20 there are other factors. You are a very experienced
21 expert, if I may say so, I am sure you have had this
22 previously: I am going to break down into the components
23 of your analysis and look at each in turn quite
24 carefully, if I may, so I will come back also in
25 particular to the question of absolute profits and

1 volumes.

2 I want to ask some questions about how you decide
3 what is and is not a reasonable conclusion on Flynn's
4 rate of return, because you concluded that what the CMA
5 had found on the plus was reasonable.

6 Could we go to the transcript, please, and this is
7 {Day8LH1/117:2-14}, and this is, I suggest, quite an
8 important passage where the President put to you that
9 there is likely to be a range of answers to the question
10 of whether a price is excessive and that those answers
11 are likely to be sensitive to what was called
12 subjectivities. Just remind yourself of that passage.

13 A. Yes, if I can just read this. (Pause)

14 Can we scroll up or should I just read down to
15 line 25?

16 Q. Oh, I am sorry, I only wanted you to read to line 14,
17 actually. I am not going to go into great detail on
18 this.

19 A. Okay.

20 Q. It is just that you agree here that an authority should
21 "put forward the most conservative case" against the
22 undertaking so long, as you put it, as it is "bounded by
23 reality".

24 By "conservative" I think you and the President
25 meant generous to the undertaking under investigation?

1 A. Yes.

2 Q. Thank you. So I read that as meaning that where there
3 are reasonable differences of opinion between the
4 experts on how to calculate Flynn's costs and its plus,
5 Flynn should get the benefit of the doubt?

6 A. That is not quite what I said.

7 There can be areas of disagreement, there can be
8 different views, but that is why I said that it has to
9 be bound in reality. I do not accept the premise, if
10 that premise was being put to me, that just because
11 another expert says they have a different view that one
12 has to go with that other view. I think that other view
13 has to be tested to see if it is a reasonable view.

14 Q. I certainly was not suggesting that crazy views are
15 within reality.

16 A. That is helpful.

17 Q. Okay, thank you, that is fine.

18 I would like to look, then, if we may, at what the
19 Tribunal made of your evidence last time around, and
20 I have already put -- you may have heard or seen in the
21 transcript, I have already put some of these passages to
22 Ms Webster, but it is important that I give you a chance
23 to comment on them since this is the Tribunal's view of
24 your evidence.

25 So if we could please go to {XN1/2/105}, this is in

1 the Original Tribunal judgment, and it is paragraphs 318
2 to 323. If you have not recently read them, you may
3 just want to refresh your memory on those.

4 A. It has been some time since I have read them, so if
5 I can --

6 Q. That would be excellent. Professor Waterson obviously
7 is going to be particularly familiar with the passages,
8 but if we could all remind ourselves of them. (Pause)

9 If you would just let us know when you are ready to
10 turn the page.

11 A. I will.

12 Q. Thank you. (Pause)

13 A. Yes. {XN1/2/106}. (Pause) Okay.

14 Q. Thank you. We will return to these passages later in
15 a bit more detail, but since you have not dealt with
16 them in your report, I am just going to ask some
17 questions to understand your position on them.

18 A. Okay.

19 Q. So to begin with a basic point, I assume that you read
20 those passages and took them into account when producing
21 your report for these proceedings?

22 A. Yes, these passages, but also passages from the judgment
23 on *Liothyronine* as well.

24 Q. I am grateful. I would like to see if we can agree on
25 a summary of the tribunal's criticisms here, so just

1 tell me if you disagree with any of this and I am going
2 to put four points, just as a precis of what the
3 tribunal said, obviously not using precisely the same
4 words, but I think it is fair.

5 First, the tribunal thought that you and the CMA had
6 based your approach on finance theory at the expense of
7 making real world comparisons with other products and
8 companies. That is paragraphs 318 to 319.

9 Second, the tribunal found that your analysis was
10 aimed at identifying the position that would obtain
11 under -- and I quote -- "idealised or near perfect"
12 rather than normal competition, and again, that is from
13 paragraph 318.

14 A. Yes.

15 Q. Third, the tribunal found that your ROCE cross-check did
16 not -- and again, I am quoting -- "add greatly to the
17 overall picture" because it only identified the minimum
18 return on capital that investors would require rather
19 than the return that pharmaceutical companies earn under
20 normal competition. That is 323.

21 A. Correct.

22 Q. Thank you, and fourth, the tribunal found that you had
23 been somewhat constrained by your instructions from the
24 CMA in the sense that you had only been asked to review
25 their approach rather than starting from scratch, and

1 the tribunal made clear this was not a criticism against
2 you, and that is paragraph 319.

3 A. Okay.

4 Q. So is that a fair summary of what the tribunal --

5 A. Would you like me to comment on them, or --

6 Q. I just want you to agree that that is what the --

7 THE PRESIDENT: Mr Harman, if you agree with the
8 propositions, then just say yes.

9 A. Yes, I do.

10 THE PRESIDENT: But if you agree with qualifications then
11 obviously we would want to hear the qualifications.

12 A. No, I agree that that seems like a fair summary. What
13 I do not want to suggest is that I necessarily agree
14 that those are issues.

15 MS STRATFORD: I am going to be coming --

16 THE PRESIDENT: If and to the extent you are saying that the
17 work you have now down is entirely consistent with those
18 points, then that will be put to you.

19 MS STRATFORD: It will.

20 THE PRESIDENT: So do not worry about that.

21 A. Okay, thank you.

22 MS STRATFORD: But I am going to put to you that ordinarily
23 if an expert receives criticisms of this kind from
24 a tribunal you would expect in later proceedings to see
25 something like, "I understand the tribunal criticised me

1 for X, Y and Z, and this is what I have done to address
2 its criticisms", and if I may say, it is quite striking
3 that in your report for these proceedings you have not
4 done that as far as we can tell. You have not responded
5 directly to any of these criticisms, and that leads us
6 to -- and this is very much the point that the President
7 was just putting to you -- think logically you must be
8 taking one of three positions.

9 So either you believe you have met the tribunal's
10 criticisms by changing your approach since the first
11 appeal, position one, or second, you disagree with the
12 tribunal's criticisms and are seeking to advance
13 similar, not the same, but similar analysis before this
14 Tribunal, or, three, you think the tribunal's previous
15 criticisms are now irrelevant because of developments
16 that have happened in the case.

17 So I am asking which of those three is your
18 position, and I am not -- I stress I am not wanting to
19 get into the specifics of the tribunal's criticisms at
20 this stage, I just want to understand whether you see
21 yourself as having responded to those criticisms or, for
22 whatever reason you thought they could be ignored.

23 A. So to correct that I did not address those explicitly,
24 I was not instructed to. As I understood, there was an
25 appeal, certain things were said on appeal, the Remittal

1 Decision allowed them to start from scratch.

2 I have obviously reflected on all of those points.
3 I think that the work that the CMA then did actually
4 addresses these points, and I think that the judgment on
5 *Liothyronine* is supportive of the approach that has been
6 taken, and I am happy to discuss any of these in detail
7 as to why I think there is a difference.

8 Q. Thank you. Just finally before we move on, can we look
9 at your previous evidence. So this is {XM/19/11}, so
10 this is from the first hearing, Day 8 of the transcript.
11 It is page 9. Page 11 on Opus, internal page 9, lines 3
12 to 8. I am sorry, so it is {XM/19/11}.

13 Thank you so much, and lines 3 to 8 on that page.

14 You were asked for the purposes of "this exercise",
15 so that was your assessment of the CMA's rate of return,
16 whether you did "any research into the generic
17 pharmaceutical industry to see how companies measure
18 profitability typically and what their normal rates of
19 profitability are", and you confirm there you had not
20 done any such research, so I just wanted you to confirm
21 the position is the same for your report in these
22 proceedings, ie that you have not done empirical
23 research of your own into what normal rates of
24 profitability are in the industry. So I am not asking
25 about -- to be clear, I am not asking about cost of

1 capital here, I am asking about rates of return in the
2 pharmaceutical industry, empirical research into that.

3 A. Well, this was a question about the return on sales and
4 whether I had performed an independent assessment of the
5 return on sales that I observed in the marketplace.
6 Obviously, given my instructions not to start again,
7 that is not something that I did, but obviously I looked
8 at Flynn's return on sales and I commented on
9 Mr Williams, but it is not true to say in a wider
10 context that no analysis has been done from an empirical
11 perspective of rates of return in the pharmaceutical
12 market because the cost of capital is an empirical
13 measure that considers the required profits of companies
14 investing in pharmaceutical companies.

15 So empirical analysis has been done, it is in each
16 of my reports, it is true that I did not do it with
17 respect to the return on sales, but I have done it with
18 respect to capital employed and the weighted average
19 cost of capital.

20 Q. Okay, so I appreciate that -- again, I am sorry I keep
21 saying this, but we are going to come on to this --
22 I appreciate you say you have done some research on
23 typical average costs of capital in the industry, that
24 is not what I am asking about right now, just to be
25 clear.

1 I also appreciate this was in a return on sales
2 context, but let us not worry about that.

3 The point is that you had not, at the last appeal,
4 done any empirical research into typical profitability
5 rates in the pharmaceutical industry, and I am simply
6 asking you whether that remains the case, typical
7 profitability rates, no empirical research into that?

8 A. But I think this is where we are at cross-roads.

9 I accepted that I did not do an analysis of return on
10 sales, but the cost of capital is a required return.
11 That is based on the profitability of pharmaceutical
12 companies. So I know there is almost some confusion as
13 to the return on sales is different from the cost of
14 capital. They are calculated differently, but they are
15 both trying to achieve the same thing by reference to
16 what does the industry expect to be earned and the cost
17 of capital is one of those mechanisms.

18 Q. Well, I will try one more time.

19 A. Okay.

20 Q. Have you done, separately from that analysis -- and
21 I absolutely promise you we are going to come back to
22 that -- have you done any additional empirical research
23 into returns in the pharmaceutical industry, so returns
24 on capital in the pharmaceutical industry, what
25 companies actually earn?

1 A. I have not done anything in addition, but my position is
2 that in the real world when investors, regulators,
3 competition authorities perform analyses around issues
4 of value, what they really use is the cost of capital.
5 So my position is, yes, I have not done something on
6 return on sales, but I think that the standard approach
7 to thinking about returns is something that I have
8 looked at in detail to produce a return that is
9 reflective of expected returns in competitive markets.

10 Q. I understand what you are saying, thank you.

11 While we are on this document, could I just ask you
12 and the Tribunal to read Opus page {XM/19/11} line 19
13 over to page {XM/19/12} line 8.

14 I am not asking you to comment on this now, but we
15 are going to move on to this debate shortly, and
16 I thought we would just pick this passage up while we
17 are already here and try and save some time.

18 A. Can you remind me of the line number?

19 Q. Sorry, line 19 on this page, your answer there.

20 A. So let me just read the question.

21 Q. Sure. (Pause)

22 A. Okay, I have read that.

23 Q. And over the page up to line 8. (Pause)

24 A. Yes, I see that.

25 Q. Great. If we could just park that for now.

1 So I am going to move on now to reasonable rate of
2 return, and we have already agreed this is the plus in
3 the cost plus test; that is right, is it not?

4 A. Yes.

5 Q. Thank you. It is sometimes described as a benchmark,
6 sometimes as the plus, and sometimes as the reasonable
7 rate of return, but whatever you call it, do you agree
8 it should be aimed at identifying the rate of return
9 that obtains under workable rather than perfect
10 conditions of competition?

11 A. Yes, I agree with that. I would use the term "normal
12 and sufficiently effective competition". If that is the
13 same definition as "workable" then I am happy to be
14 using the word "workable".

15 Q. Thank you. So to state the obvious, it should not be
16 aimed at abnormal competition and perfect competition is
17 an abnormal form of competition, if you want to put it
18 like that?

19 A. Yes, it does not really exist in the real world.

20 Q. Thank you. Do you agree as a general proposition that
21 if one were to build a theory to identify what I will
22 call a workably competitive rate of return, but we can
23 use the longer "normal and sufficiently effective"
24 competitive rate of return, if you build a theory, it
25 would be good practice to test the outcome of that

1 theory against empirical evidence of actual rates of
2 return achieved in the industry?

3 A. I mean, there has been thousands of tests on the
4 weighted average cost of capital as to whether it mimics
5 the real world. It does mimic the real world because it
6 is based on real world data.

7 Q. It is not quite my question. This is back to the debate
8 we were having a moment ago, so I am asking whether it
9 is good practice to test the outcome against empirical
10 evidence of actual rates of return achieved in the
11 industry, what is actually going on, if you like, on the
12 ground in the industry in terms of rates of return?

13 A. I think that it can be difficult -- those comparisons
14 can be difficult because you need to be able to control
15 for a number of factors such as the level of investment,
16 the level of risk, the types of markets that they are
17 working in, and so on and so forth, and it is difficult
18 to determine the rates achieved in other businesses from
19 their accounts because those costs need to be adjusted
20 to reflect, amongst other things, replacement costs and
21 the value of intangibles to the extent that they are not
22 on the balance sheet.

23 So that type of analysis is difficult, but
24 generally, as a valuation practitioner, you will have
25 regard to market data on returns in the industry and the

1 relative risk between those businesses.

2 Q. Are you really saying there is no point in doing an
3 empirical analysis or it is always too difficult?

4 A. I am saying that in certain circumstances it is possible
5 to do -- and when you say "empirical", are you referring
6 to a return on sales analysis?

7 Q. Well, I am referring -- perhaps you can call it that.
8 I am referring to an analysis that looks at actual rates
9 of return in the industry. I am not sure I am terribly
10 bothered whether it is return on sales, gross margin; we
11 are going to come on to look at all these different
12 indicators.

13 A. I think it matters that if you are going to do
14 a margin-based approach, whether it is contribution
15 margin, gross margin, and so on and so forth, with
16 a comparator analysis you always have to ensure
17 comparability. In this case, as I have explained in my
18 teach-in, phenytoin capsules has a whole range of
19 unusual factors in terms of high volume, high input
20 costs, low risk, low capital employed.

21 If you do not control for those items, it is likely
22 that you will get spurious results. So in my
23 professional practice, have I seen rates of return based
24 on measures as a function of revenue used? Often.
25 I often find that there is limited comparability, and

1 I say this from the perspective that it is unusual on
2 this case that I am working for the CMA, normally I am
3 on the other side, but I have very rarely put forward
4 return on sales data or margin data because it is very
5 difficult to control for all of those factors, because
6 that methodology opens up a can of worms that means you
7 have to control for more and more things.

8 Q. Let me try this: do you agree that if one did test one's
9 theory against real world data, so in one of those cases
10 where you, despite all of the complexities that you are
11 seeing, you think you can do it, if you do that test and
12 there was a significant difference between what your
13 theory says should be a normal rate of return and what
14 empirical data says should be a normal rate of return,
15 then that -- that actually is a normal rate of return,
16 I should say, that that would be a reason to believe
17 that something might be wrong with the model, if you get
18 that mismatch?

19 A. I do not think there is something wrong with the model
20 per se.

21 Q. To be clear, I am asking generally at the moment, I am
22 not --

23 A. If you were to do an analysis that showed something
24 complete, so hypothetically that you found the perfect
25 set of comparators and you observed what they were

1 earning in the real world and your analysis based on
2 a different approach identified something different,
3 would it be prudent to consider all of those results and
4 try to work out what the differences between them were
5 and what is the most sensible benchmark, then the answer
6 clearly is yes, but in our analysis that is what we have
7 sought to do, but in different ways, and I am sure that
8 we will come on to that.

9 Q. Well, I showed you the previous tribunal's findings
10 earlier including that the CMA's analysis should have
11 been based on real world returns, so that is part of the
12 reason I am putting this to you.

13 We can go back, if it would be helpful, to your
14 evidence in the transcript of the first -- I think maybe
15 it would be useful if the Tribunal would find that
16 helpful at {XM/19/16}. This is Day 8 of the transcript
17 of the previous appeal, and look there at lines 16 to
18 21.

19 So at that stage you were saying:

20 " ... as an economist, quite clearly you can either
21 rely on theory or you can base yourself on empirical
22 evidence. I think in reality those two should converge,
23 it would be odd if the theory was telling you something
24 completely different ..."

25 So that is really the point that I was putting to

1 you.

2 A. I think that what I am saying is something consistent,
3 and again, just to frame the wording in here, when we
4 say "theory" what we were referring to is the weighted
5 average cost of capital, which is mainstream in terms of
6 what people use in the real world, so that is the first
7 point.

8 The second point, when we were talking about
9 empirical evidence, we are talking about the return on
10 sales, so my contention is that the cost of capital is
11 an empirical analysis, but in the way in which we were
12 being -- I was being cross-examined at the time, that
13 was the distinction that was being made.

14 What I have just said, I think it was the last thing
15 that I said, was that if you can find a return on sales
16 metric that you can control for differences, then you
17 would be facing a question as to which of the two were
18 correct, and you would have to do some analysis on that.

19 In this case, I do not think that we have that issue
20 because of some of the cross-checks that we have done
21 and when I am taken to that I will be able to explain
22 more fully.

23 THE PRESIDENT: Just to work out what one does if there is
24 a mismatch, let us suppose you see the published
25 accounts of a sector or an industry, pharmaceuticals is

1 obviously the one we are looking at here, which has
2 a rate of return that is very, very high and that is out
3 of line with the rate of return, the ROCE, that you
4 derive from your WACC, so that one cannot sit easily
5 with the other.

6 A. Correct.

7 THE PRESIDENT: Would you look to explanatory factors in the
8 published accounts, because of course you do not get the
9 full detail there, and try to work out why it is that
10 those returns are out of line with what you would expect
11 to see in accordance with your ROCE WACC?

12 A. Yes, I mean, unfortunately financial accounts, not as we
13 would always like them to be, they are quite strict in
14 the way in which they are formulated to ensure that
15 people can interpret them on a consistent basis. There
16 are a number of -- I mean, the point that I would make
17 is that when we are doing this type of analysis we are
18 always having regard to economic cost and not accounting
19 costs and the two may diverge for whatever reason it is.

20 So one of the reasons that you might find
21 a difference -- or a number of -- one, there may be
22 different accounting policies, secondly, there may be
23 differences between economic and accounting costs. So,
24 for example, if you were looking at a mine and the mine
25 opened 100 years ago and in the accounts the value of

1 that mine, the investment in that mine and all of the
2 tangible assets are 100 years old and they have just sat
3 there for 100 years, that tells us very little about the
4 value of that mine today because you have had 100 years
5 of inflation.

6 So normally, when you are thinking about economic
7 analysis, you would restate those values so that they
8 were in money today, because your revenues are in money
9 today, right, it reflects inflation and the costs base.

10 So that is one of the types of analysis that you
11 would need to do to make sure things are similar.

12 I think that the return on sales figure is
13 relatively easy, on the profit and loss account, I mean
14 the revenue is likely to be properly recorded, and the
15 margin, apart from some accounting adjustments, is
16 likely to be, you know, properly recorded.

17 What the account is not going to give you is any
18 segmentation of the underlying products, and that can
19 matter. So in a very simple example, let us say there
20 were two drugs, one that was branded, patented and was
21 earning a 30% return, and another one which was
22 a generic facing competition and it was at 10%, if you
23 took the average, that average tells you nothing if you
24 are comparing to a patented drug versus something else,
25 and that is one of the problems with that analysis.

1 THE PRESIDENT: No, I quite understand. What you are
2 saying, if I can reframe it, is that there are
3 sufficient known unknowns in the published accounts or
4 the published data to mean that you cannot actually test
5 your ROCE WACC against those measures because you do not
6 know enough about those measures viz the published
7 accounts?

8 A. Yes.

9 THE PRESIDENT: That is what you are saying?

10 A. That is correct.

11 THE PRESIDENT: Right.

12 A. Just to put a point on it, when you look at the weighted
13 average cost of capital it is not based on accounting,
14 it is based on market returns.

15 THE PRESIDENT: No, no, I understand the difference, my
16 point is simply this: you assume -- I would like your
17 response on this -- you assume that the greater
18 information you had in relation to published accounts
19 would enable you to reconcile the higher figure in the
20 published accounts to the proper figure in the WACC
21 ROCE?

22 A. Correct.

23 THE PRESIDENT: Do you ever ask yourself whether the WACC
24 ROCE approach might be wrong?

25 A. Well --

1 THE PRESIDENT: And that in fact the figures in the
2 published accounts, even though you cannot deconstruct
3 them, are in fact indicative that the rate in this
4 hypothetical instance, the WACC ROCE gives you is too
5 low?

6 A. There is a few things to unpack there --

7 THE PRESIDENT: I agree.

8 A. -- which I think are important.

9 Firstly, one difference -- and I think it is an
10 important difference -- is what the cost of capital is
11 doing is having a look at total market returns, average
12 market returns, and there is a distribution around that.

13 THE PRESIDENT: So total market returns meaning those of the
14 undertaking?

15 A. Of the undertaking, which gives you a distribution of
16 potential returns, and so one of the central tenets of
17 investment theory is that you should, on average, earn
18 your expected return, adjusted for risk. It is possible
19 that you could earn more than that return, and it is
20 possible that you will earn less than that return.

21 To the extent that you earn more than that return,
22 that may be for temporal reasons, or it may be because
23 you have a product that is differentiated over time,
24 allowing you to earn periods in a higher period, but on
25 average, you earn that average return.

1 When you look at a return on sales figure from
2 a particular business, one of the differences is that
3 you are now no longer looking at what you expect on
4 average, but you are observing potentially a business
5 that is earning a return that is higher than the average
6 because of justifiable reasons, that it has greater
7 efficiency, that it is a differentiated product,
8 allowing it to earn more than the average return over
9 the short term.

10 So the problem is that I think the cost of capital
11 is trying to tell you something about what you expect to
12 happen in the long term over different forms of
13 competition, not perfect competition, and if you look at
14 a point estimate for a return on sales, you get these
15 other factors that say: well, there may be legitimate
16 reasons for that. In the way in which I understand
17 these types of analysis is the first question for
18 excess, which is what I am looking at, is that you have
19 a return that is based on what you think is a normal
20 outcome.

21 If I look at a different company and it has a higher
22 than that, that gets us into an unfairness or fairness
23 question and trying to understand whether that business
24 legitimately is allowed a return, but I think that goes
25 further than this analysis because we are trying to say

1 what is a benchmark for normal returns and returns which
2 I think reflect normal and sufficiently effective
3 competition, not perfect competition. We acknowledge
4 that you can earn a higher return as potentially
5 evidenced empirically, but the question then becomes for
6 the Tribunal as to whether they are justifiable factors
7 that would support that higher return.

8 So I think that is the main big difference as to why
9 the two may not reconcile, apart from accounting issues
10 and everything else, but you might be comparing,
11 you know, an orange and a lemon in compared to they are
12 facing different competitive pressures and are in
13 different markets that may justify those higher returns.

14 MS STRATFORD: Thank you. Could I just -- since the
15 President has helpfully raised this, we have actually
16 got -- you may remember -- in Mr Williams' evidence, we
17 have some real world examples here of what ROCE -- if
18 you look at the publicly available accounts of
19 pharmaceutical companies, what results you get.

20 So this is at {XE2/7/12}. Looking there at
21 paragraph 42, if we could just blow that up, I know you
22 have seen this before, but we see there a very wide
23 range, and I was going to come on to deal with this when
24 we get into looking at ROCE in more detail, but as
25 I understand, your evidence is that all of these

1 companies would have to justify why there was some
2 special reason why their ROCE rate came out higher than
3 10%. That is what I understood your answer to the
4 President just now.

5 A. No, I think that is the second part of my response. The
6 first is, and I have recreated these in my spare time
7 from the accounts, it is evident that Mr Williams has
8 not done any of the accounting to economic cost
9 adjustments that I would say are required to come up
10 with a meaningful return on capital employed assessment.
11 He simply has not gone through that process.

12 So am I surprised that if you were looking at
13 historical accounts which have not been adjusted for
14 inflation and therefore are dividing a return which has
15 inflation in it because it is in money of the day by
16 a set of assets which are historic in nature, with no
17 consideration as to whether a new entrant coming into
18 the market would be paying for assets at a gross book
19 value versus a net book value, so he has used a net book
20 value, some of these assets are very highly depreciated,
21 he has excluded cash in his analysis, and so, yes, they
22 do give rise to high numbers. As an expert generally
23 looking at returns on capital employed I would say the
24 first two I would imagine quite easily you would get
25 down to a low return on capital employed after

1 adjustment. Morningside and Essential Pharma have very
2 high returns, one would have to look exactly at that,
3 but I also understand that potentially Morningside has
4 been investigated for excessive pricing in products.
5 That may well explain that number.

6 Q. Mr Harman, you are giving evidence now about all sorts
7 of things that you are now saying you looked at. None
8 of this is in your reports, is it? If you thought this
9 was relevant, it would have been helpful to the Tribunal
10 to put this analysis into your report.

11 A. Well, as I think, you know, this came up in Mr Williams'
12 teach-in. I understand that other accounts --

13 Q. It is in his report, I have shown you his report.

14 A. Yes, and it is in his teach-in as well. You are asking
15 me as to what I think of these numbers. They are
16 accurately stated, but they make no adjustments.

17 Q. Okay, let us try this: would it have been useful for the
18 CMA to ask one or more of these companies for product by
19 product information of the sort that you have been
20 suggesting needs to be looked at for each company in
21 order to do what you say is a meaningful analysis?

22 A. I mean, it is difficult for me to determine what the CMA
23 should have done. I was not asked to look at that.

24 If I think that their primary line of analysis based
25 on return on capital employed based on phenytoin

1 capsules' actual capital employed and actual required
2 rate of return, with all of the cross-checks, my first
3 point would be to say: I think there was sufficient
4 evidence there to suggest that there is an excess.

5 Do I think that asking all of these companies for
6 a significant amount of data bearing in mind you have
7 seen the analysis that the CMA's done just for phenytoin
8 capsules, it is quite extensive, that would need to be
9 replicated for each of these firms across each of their
10 product lines.

11 I think it would be very difficult to find
12 a potential product with certainty that would allow an
13 analysis to be done because, as I have said, phenytoin
14 capsules has a set of highly unusual elements.
15 Mr Williams has not put forward a product that would say
16 it absolutely matches this product in the marketplace,
17 so go and have a look at that product based on his
18 industry analysis.

19 So if it could be done reasonably, I would say yes.
20 Do I doubt that it could actually find a meaningful
21 comparator that added more weight to the analysis that
22 they have already done? I do not know, but I think
23 maybe unlikely.

24 Q. You are saying it would have been very difficult even
25 for the CMA with its powers, that is not in the same

1 position as a private company, to investigate this;

2 I think that speaks for itself, if I may say.

3 A. I think it would be easier for the CMA to do, but that
4 is the problem with the return on sales approach, and
5 that is why I think that the return on capital approach
6 is more reasonable because you can identify Flynn
7 phenytoin capsules with a degree of accuracy. I do not
8 need to find somebody else's capital employed, I am
9 looking at the target product.

10 Q. Okay, we are going to come back to that.

11 So as we know -- and we have already been
12 discussing -- there are two main candidates, ROS and
13 ROCE.

14 A. Yes.

15 Q. Again, as we have mentioned in passing already, there
16 are also some other measures, gross margins, product
17 contributions and differentials, and I will come back to
18 those briefly, but can we agree at a high level that ROS
19 measures a company's profits being revenues less direct
20 and indirect costs against its revenues, whereas ROCE
21 measures its revenues relative to the capital it has
22 employed in supplying the product?

23 A. From a mechanical perspective, that is the nature of the
24 calculation, but, as I set out in my reports, there is
25 a link between the ROCE and the ROS calculations because

1 what each pharma company needs from an investment
2 perspective is a return on its investment. So I state
3 in my report that the ROS formula can be reframed as the
4 return on capital employed times the WACC divided by
5 revenue. You cannot calculate the ROS without
6 considering the level of invested capital and the risk
7 that the business faces, but from a mechanical point of
8 view, that is how the ROS is calculated.

9 Q. That is all I am trying to do at the moment. We are
10 going to come back to some of your equations.

11 Before we get into this ROS versus ROCE debate,
12 I want to just acknowledge an exchange between yourself
13 and the President during the hot-tub where he suggested
14 to you that there might be reasonably differing views
15 about how to carry out the cost plus analysis and that,
16 if that is the case, the whole range of views should be
17 taken into account using, again, the most generous
18 assumptions to a company in the position of Flynn within
19 the bounds of reasonable disagreement, and that is your
20 reasonableness caveat which I fully take on board.

21 So do you agree with that at the level of principle?

22 A. At the level of principle, if the return on sales can be
23 found to be sufficiently comparable, then I think that
24 that is an approach that can be used.

25 Q. Thank you. On this ROS versus ROCE debate, you told the

1 Tribunal that in your view using a ROS metric to assess
2 Flynn's profits fell outside the bounds of reasonable
3 disagreement between economists, in this case. I can
4 show you where it is in the transcript if you want.

5 A. Sorry, I was just trying to understand the question
6 again.

7 Q. So you said to the Tribunal that using a ROS metric to
8 assess Flynn's profits fell outside the bounds of
9 reasonable disagreement between economists.

10 A. Between the expert economists here?

11 Q. Yes, between -- in your view it is not something where
12 reasonable economists can disagree.

13 A. Well, what I am saying is that the analysis on ROS that
14 has been done does not control for many essential
15 factors, such as high input costs, high volumes, the
16 level of capital employed, the level of risk, whether
17 those markets are differentiated, and so on.

18 Q. Let me try it in a different way. I am sorry to talk
19 across you, but I think you are saying that
20 Dr De Coninck's views are not ones that a reasonable
21 economist could hold. Is that right?

22 A. Sorry, which views?

23 Q. The views about using ROS as a metric to assess Flynn's
24 profits here.

25 A. What I have said is that if you can control for the

1 factors that influenced the ROS, then you could use it,
2 but if you do not control for them, then I think that
3 the analysis that is produced is highly questionable
4 and --

5 THE PRESIDENT: Can you control for them?

6 A. I do not think that you can, I mean, that is the
7 problem.

8 THE PRESIDENT: Right. So does that not make the answer --
9 and I do not want to put words in your mouth so please
10 do spit them out if they are not right -- but if you
11 cannot control for them and it is not a measure that
12 absent control you should use, then surely it is
13 a measure that is unreasonable to use?

14 A. Yes, I am sorry, I was wondering whether the question
15 was more general rather than specific. In the specifics
16 of this case, I agree with you that I do not think that
17 it can be reliably deployed.

18 THE PRESIDENT: Well, it may not have been the question
19 counsel was asking you, but it certainly was the one
20 I was asking.

21 I apologise, Ms Stratford.

22 MS STRATFORD: Thank you.

23 Let us look at the relevant passage if we can. This
24 is the transcript of this hearing, {Day8LH1/123:} to
25 {Day8LH1/124:}, please.

1 Maybe you could refresh your memory by reading the
2 President's question which is at {Day8LH1/123:7} and go
3 up to the end of your answer on {Day8LH1/124:10}.

4 A. Okay. (Pause)

5 Okay.

6 Q. Thank you. The key words I want to focus on is that in
7 response to the President putting to you that there
8 might be multiple ways to calculate the reasonable rate
9 of return you say:

10 "... the return on sales approach leads to something
11 that is not reasonable..."

12 So we took that to mean it is not within the bounds
13 of reasonable disagreement between two experts.

14 A. In this case, I think that the return on sales cannot be
15 used, correct.

16 Q. You stand by that as your evidence as an independent
17 expert?

18 A. Yes, because the cross-check that I have done is to say
19 if I accepted that rate of return that has been put
20 forward, the implication for the level of capital that
21 Flynn would have to hold is something like £95 million
22 in comparison to its actual capital employed of
23 £3.5 million.

24 The difference between the levels of capital
25 employed from the return on sales approach implies is

1 factors outside of the real world. If somebody could
2 actually earn that type of return on an investment of
3 £3.5 million, you would get competition absent barriers
4 to entry.

5 THE PRESIDENT: Just to be clear, your definition of
6 "capital" in this context is to refer to capital as the
7 equipment that facilitates the processes by which
8 a product is produced?

9 A. Correct, it is the amount of -- putting it a different
10 way, it is the amount of money that you would need to
11 find upfront to commence your operation, and it is that
12 sum of money that people want a return on.

13 THE PRESIDENT: That is not what I asked.

14 A. I think they are similar.

15 THE PRESIDENT: Well, we may be coming to that.

16 A. Okay.

17 THE PRESIDENT: But we have your answer on the record.

18 A. Okay.

19 MS STRATFORD: Thank you.

20 On the same theme, could we please go to Day 3 of
21 the transcript of this hearing at {Day3LH1/110:18-23}.
22 So this is from Mr Holmes' opening submissions, I do not
23 know if you heard those, but it is just a very short
24 passage I wanted to focus on. Mr Holmes said:

25 "... a simple return on sales measure is not in

1 itself a good basis for understanding the economic
2 profitability of any activity."

3 My simple question is whether that is also your view
4 in this appeal.

5 A. Well, the theme is that any return on sales analysis
6 should always be combined with absolute returns,
7 that applies to both return on capital employed and to
8 a ROS approach. The issue that we have in this case is
9 that we have a very high input cost that increases the
10 denominator and depresses the required return on sales.

11 So in the context of this case, if you cannot
12 control for high input costs, then you should not use
13 it; if you can control for it, you still need to
14 consider absolute returns to ensure that you do not make
15 the wrong decision.

16 Q. Thank you. Can we go, then, to the Original Decision,
17 so this is {XA2/1/327}. I want to look there at
18 paragraph 5.157, if we could zoom in on that, please.
19 This is what the CMA previously found, and you can see
20 it said:

21 "The CMA has concluded that ROCE would not be an
22 appropriate measure of the reasonable rate of return to
23 calculate Cost Plus for Flynn's Products due to the
24 difficulties the CMA would face measuring the level of
25 capital assets employed in the tasks that Flynn performs

1 in relation to Flynn's Products. The CMA considers that
2 ROS is the most appropriate measure of return for Flynn,
3 as the calculation of ROS does not use any measure of
4 assets employed."

5 So the CMA previously concluded that ROCE was not
6 the appropriate metric for measuring Flynn's reasonable
7 rate of return, and ROS was not only an appropriate
8 metric but -- and I quote -- "the most appropriate"
9 metric for doing so. Do you agree that that is what the
10 CMA concluded at that time?

11 A. It is what it concluded at the time. I mean, what you
12 can see from that passage is that it did not actually
13 perform a return on capital employed approach. You can
14 see that it understood that there may well be
15 difficulties and then did not pursue that line of
16 enquiry, as I understand it.

17 Q. We are going to come --

18 A. Without the return on capital employed approach then
19 would you have to focus on the ROS, and they obviously
20 had to think what return on sales figure was most
21 comparable to phenytoin capsules.

22 Q. We are going to come to look at what the CMA did in
23 full. Just pausing for a moment looking at this
24 paragraph, you were then asked to give your independent
25 opinion on the CMA's approach to cost plus, and that

1 necessarily included an opinion on the appropriate
2 metric, did it not?

3 A. It did.

4 Q. It may help you just to refresh your memory about what
5 your instructions were if we look at {XE1/13/12} and
6 paragraph 2.10 there:

7 "I have been instructed to assess whether it is
8 appropriate to use the ROS measure to determine
9 a reasonable rate of return ..."

10 To cut a very long story short, you concluded it was
11 appropriate to use the ROS measure to determine
12 a reasonable rate of return for Flynn, and that is why
13 you found the CMA's conclusion to be reasonable, and in
14 doing so, you agreed that its ROS-based benchmark was,
15 as it said, the most appropriate measure for Flynn. So
16 that was your view at the time as an independent expert.

17 A. That is not the full picture because I thought that it
18 was important to do a return on capital employed
19 approach to cross-check the ROS, so I did perform an
20 initial return on capital approach that reflected its
21 working capital because Flynn had said that it needed
22 a higher price to fund its working capital, so I did
23 a return on capital employed cross-check. The CMA did
24 not perform that analysis, that was my analysis to act
25 as an input in determining whether a 6% ROS was

1 appropriate. The way in which the CMA determined the 6%
2 ROS was by going through a process of understanding,
3 irrespective of actually doing a return on capital
4 employed approach, asking the questions: is there a high
5 level of capital employed, is there a high level of risk
6 and then contextualising the return on sales through
7 that lens, saying that I think the return on sales --
8 that if you adjusted for those factors, if you had those
9 factors -- took those factors into account, including
10 the high input costs, then a 6% return was reasonable.

11 In fact, it thought that a 6% return was more than
12 reasonable, and my analysis, based on return on capital
13 employed, and other lines of enquiry such as absolute
14 returns and looking at returns that Flynn's portfolio
15 earned, that it seemed at the time that 6%, given that
16 the CMA had not done a return on capital employed
17 approach, was a reasonable outcome, but it identified at
18 the same time looking at comparators in the wider market
19 was difficult, and that element of the return on sales
20 analysis that had been put forward I thought could not
21 be relied upon.

22 Q. Mr Harman, I am actually asking a very simple question,
23 if I may. So the CMA had said that its ROS-based
24 benchmark was the most appropriate measure for Flynn,
25 and you --

1 A. Having discounted the return on capital employed
2 approach.

3 Q. I am sorry?

4 A. Having decided not to perform a return on capital
5 employed approach.

6 Q. Yes, yes, absolutely, and I am going to look at the
7 extent to which you referred to return on capital
8 employed first time around.

9 A. Yes.

10 Q. But looking at ROS, the CMA said it was the most
11 appropriate measure for Flynn. You marked the CMA's
12 homework, if I can use that colloquialism.

13 A. Yes.

14 Q. You said the approach they have taken was reasonable.
15 Are you now saying that you said somewhere in your
16 report that you disagreed with the CMA on that
17 proposition at that time?

18 A. No, I think, you know, based -- given that they did not
19 do a return on capital employed approach, the only
20 fallback really is a margin approach, so that can be the
21 only approach, whether it is a gross margin or
22 a contribution margin, they are all relatively the same.
23 Based on the evidence the CMA looked at, 6%, I said, was
24 reasonable, and of course in this hearing they have
25 continued to use a 6% ROS as a cross-check for Flynn,

1 and I think that is a reasonable cross-check.

2 THE PRESIDENT: Mr Harman, is all that you are saying that
3 because the outcome of the ROS exercise happily
4 coincides with the outcome of the ROCE exercise, you are
5 happy with the ROS exercise?

6 A. In the first Decision, I was asking -- I was using the
7 return on capital employed as a cross-check and
8 basically the cross-check said given -- and it was to
9 make sure that the ROS had not been set too low.

10 THE PRESIDENT: Well, but Mr Harman, let us go back to the
11 question that I asked you, I said do spit out the words
12 that I am trying to put into your mouth if you do not
13 like them. What I am saying is that if you cannot, on
14 a ROS assessment, control for the adjustments you say
15 need to be taking place, then absent such ability to
16 adjust, it is a measure that is unreasonable to use, and
17 you say, yes, I am sorry. I was wondering whether the
18 question was more general rather than specific: in the
19 specifics of this case, I agree with you that I do not
20 think that it can reliably be deployed."

21 Now, if that is your evidence, then are you not
22 saying that ROS is simply a measure that is
23 intrinsically unreliable and that you cannot use other
24 measures as cross-checks because you are cross-checking
25 something that you regard as just an unreasonable

1 approach to take?

2 A. I mean, yes, I agree that in general I think that the
3 return on sales is contaminated for the reasons that we
4 have looked at. The way in which the 6% ROS was
5 calculated was by observing, amongst other things, the
6 return that was allowed on average by the PPRS which
7 accounts for 80% of all purchases from the Department of
8 Health.

9 How I reached my reasonableness conclusion the first
10 time round was by saying: these are branded and
11 potentially patented goods, all else being equal I would
12 expect the return for phenytoin to be lower because it
13 is not branded, there is no innovation, there is no R&D.

14 So it was a -- there is a decision that has to be
15 made that if you start from a sensible ROS you can ask
16 the question: is it likely to be higher or is it likely
17 to be lower, and my view at the time, especially given
18 the high input cost, is that a 6% return, looking at
19 absolute returns, was at the time the best measure to
20 look at.

21 Do I believe that a return on capital employed
22 approach should have been adopted, then I would say yes,
23 you know, pretty much all the way through my reports,
24 first, second and third, I say that in the real world,
25 people need a return on capital employed. So you do

1 need to do the analysis of what is the capital of the
2 firm.

3 MS STRATFORD: Mr Harman, in your first and second reports,
4 which were the reports for the first appeal, can you
5 point us to where you said ROCE was the right measure,
6 ROS was not the appropriate measure? I am going to
7 come -- as I say, I will show you the passages I have in
8 mind where you address ROCE --

9 A. Okay.

10 Q. -- but I am putting it to you that there is nowhere that
11 you disagreed with the CMA that the ROS-based benchmark
12 was the most appropriate measure for Flynn.

13 A. I did not in that report say return on capital employed
14 is what you should be doing, again, my instructions were
15 not to start again, so I did that as a cross-check, but
16 what I was saying there is that throughout all of my
17 analysis in report 1 and 2, I said that even when you
18 look at the return on sales you have to look at it
19 through a ROCE lens because in the real world, companies
20 want a return on capital employed and risk.

21 Q. It is not quite what you said, but we will come and look
22 at your words at the time. Just to remind you --

23 THE PRESIDENT: I am so sorry, just to pause there, in terms
24 of what you are doing to assist the Tribunal in reaching
25 the correct outcome in these appeals, would it be fair

1 to say that you are not defending the CMA's decision, be
2 it the first one or the second one; what you are doing
3 is you are reviewing it as someone who has come on the
4 scene after the event and you are asking yourself not is
5 it right, but is it defensible?

6 A. Yes.

7 THE PRESIDENT: Thank you.

8 A. Yes.

9 MS STRATFORD: I am grateful, and that was part of why
10 I took you back to your instructions for the first
11 appeal a moment ago where you recorded that you had been
12 instructed to assess whether it is appropriate to use
13 the ROS measure to determine a reasonable rate of
14 return. So I suggest it is completely fair that I have
15 been putting to you this line of questions.

16 It may, again, assist if we go to {XE1/13/53}, again
17 this is in your first report, at paragraph 4.37, and
18 this is part of what you were just discussing with the
19 President, so we can see after some analysis which we do
20 not need to go into now, you conclude:

21 "... I consider a 6% ROS for Flynn is reasonable."

22 You agreed at that time that ROCE was not an
23 appropriate measure, so maybe we can just look at that.
24 That is {XE1/14/39} in your second report at
25 paragraph 4.32.

1 This is you answering Flynn's evidence, and in fact
2 the CRA's evidence and you said:

3 "I do not suggest in my First Report that a finding
4 of a high ROCE for a particular Flynn product would be
5 indicative of excessive pricing."

6 Then, this is important:

7 "It is common ground that a ROCE analysis is not
8 appropriate for establishing excessiveness in this
9 case."

10 A. Yes, the position here is that the CMA did not perform
11 a return on capital approach, and I was asked to
12 consider whether the ROS was reasonable. They were my
13 instructions.

14 So the CMA was not putting forward a return on
15 capital employed approach to determine excessiveness.
16 I was using a return on capital employed approach to
17 assess whether the 6% return based on working capital
18 and no consideration of intangibles would be sufficient,
19 that would give them a minimum return which I could then
20 compare to whether the 6% was higher.

21 So when I say that it is -- and I think maybe in the
22 transcripts I refer to it as common cause, because I am
23 not putting forward a return on capital employed
24 approach to determine excessiveness, it is only as
25 a cross-check to the return on sales at that time

1 without fuller information.

2 Q. But you did, Mr Harman, actually conduct your own
3 bottom-up ROCE calculation at that time, so you have
4 said a number of times that the CMA had not done the
5 work, and that was the reason why you felt, you are now
6 saying, in some way constrained despite your
7 instructions, but you did conduct this as a cross-check
8 first time around.

9 A. That is not true. I did not do it in any detail.

10 I asked the CMA to provide me with figures for working
11 capital, it had not done any analysis on intangibles,
12 I did not consider the value of intangibles and on the
13 weighted average cost of capital I merely took a range
14 from 8% to 12% without any analysis.

15 So I was not seeking to do a full return on capital
16 employed analysis, I was simply trying to make sure that
17 a ROS of 6% was not understated. If I had done that
18 analysis and worked out really you needed a ROS of 10%,
19 then I would have asked the question 6% cannot be right
20 based on this analysis.

21 Q. Okay, well, we are going to come, if I may, we are going
22 to come later to the detail of what you did first time
23 around so let us just park that for now if we can.

24 Could we go back to the Decision, so this is
25 {XA1/1/211}. I just want to look at paragraph 5.289 of

1 the Decision -- we are back at this Decision now. We
2 are jumping around, but I am afraid it is unavoidable.

3 We can see the CMA saying there that there are:

4 "... significant conceptual flaws in applying a ROS
5 approach..."

6 If you look down to 5.289.1 they say there:

7 "A ... ROS analysis ... provides little insight into
8 the underlying economic profitability of Capsules."

9 As I just mentioned in his opening submissions for
10 this appeal, Mr Holmes said, just to remind you,
11 a simple return on sales measure is not in itself a good
12 basis for understanding the economic profitability of
13 any activity.

14 So do you agree that this is the same metric that
15 the CMA put forward as the most appropriate in its
16 Original Decision and which you agreed with at the time?

17 A. Well, I think that -- it is difficult for me to
18 second-guess what the CMA actually means here, but it is
19 evident through the first trial that there were
20 complications in terms of doing a return on sales
21 approach. We saw that in the analysis that Mr Williams
22 had done, we see it in Flynn's portfolio, though I think
23 within Flynn's portfolio we are able to isolate input
24 costs and costs to show that phenytoin capsules is
25 different.

1 So I think that it is potentially a reasonable
2 outcome that the CMA said: there are some difficulties
3 with the ROS approach because of what we have learnt
4 through the process. It then considers whether a return
5 on capital employed approach can be undertaken, and it
6 believes that it can identify the capital invested in
7 phenytoin capsules.

8 Q. Yes, well, I put it to you that if you were concerned at
9 the time that the CMA's chosen benchmark -- so the
10 ROS-based benchmark -- had significant conceptual flaws
11 as it is now saying, it was your duty as an independent
12 expert to identify those flaws in your original report.

13 A. No, I think the flaw is, and it is the same opinion, is
14 that the comparators where you are able to adjust for
15 input costs and volumes and changes of risk are still
16 flawed.

17 Q. But that is the very reason why you are saying now you
18 cannot -- no reasonable economist could use ROS.

19 A. If you cannot control for those factors, then the
20 outcomes are likely to be biased, yes.

21 Q. Well, we are going to come on to look at whether
22 anything has really changed in terms of your knowledge,
23 Mr Harman.

24 A. Well, in -- I reached the same conclusions with respect
25 to Mr Williams' analysis and Dr De Coninck's analysis,

1 that has not changed.

2 Q. Mr Harman, you told the Tribunal that in your expert
3 opinion the CMA's ROS approach was reasonable, and in
4 fact, the CMA of course -- it is easy perhaps to forget
5 that the CMA are continuing to use a ROS metric to
6 calculate Pfizer's reasonable rate of return, so I am
7 putting to you it cannot be as useless as you and
8 Mr Holmes are now saying it is.

9 A. But I do not think that is my evidence. I am saying
10 return on sales can be used when you can control for
11 factors that may distort the analysis. In terms of
12 Pfizer, I believe that you can perform that analysis
13 because it reflects the returns that they actually earn
14 on their portfolio, that is a real life empirical
15 observation.

16 I am saying that if you start to compare return on
17 sales outside of the business, then you need to be
18 careful to ensure comparability on a whole range of
19 aspects.

20 Q. Could we just -- I am conscious of the time -- just
21 before the break, could we please bring up -- this is
22 the Remittal Decision {XA1/1/175} and could Opus split
23 the screen and bring up the Original Decision at
24 {XA2/1/327}.

25 So the Remittal Decision we can see the CMA saying:

1 (11.45 am)

2 THE PRESIDENT: Ms Stratford.

3 MS STRATFORD: Thank you, sir.

4 So before the break we were looking at those two
5 paragraphs, and I said the CMA's change of position
6 calls for an explanation, and equally I would say if an
7 independent expert gives his view that one measure is
8 the most appropriate in one piece of litigation and says
9 the other is inappropriate and then gives the opposite
10 view in another piece of litigation, it is just natural
11 to ask what has happened between the two proceedings to
12 change the expert's mind, so I want to come now to look
13 at what, if anything, has changed between the two
14 appeals.

15 If we could start with the CMA's original statement
16 of objections, and that is at {XA2/2/253}, and if we
17 could look there at paragraph 5.92.

18 You can see the CMA said that:

19 "The CMA considers that ROCE is challenging to apply
20 for Flynn and has limitations given that its activities
21 in supplying phenytoin sodium capsules, namely ordering
22 and managing customer relations, are [and I stress]
23 people intensive, meaning that Flynn employs minimal
24 capital assets. As a result [again, I stress], the CMA
25 considered that ROCE was not appropriate for assessing

1 what a reasonable rate of return would be for Flynn."

2 In your previous reports you did not disagree with
3 the CMA's finding that Flynn's activities were
4 people-intensive, did you?

5 A. I do not think that I commented on that, but the reality
6 is that the level of employees in the costs stack for
7 phenytoin sodium is something like 3%, so I would not
8 describe this as a labour-intensive business given that
9 only 3% of its costs relate to labour.

10 Q. Well, Mr Harman, if you had actually disagreed with
11 that, maybe that is what you are now saying, it would
12 have been your duty as an expert to raise that and you
13 did not raise that in your first or second reports for
14 the first appeal.

15 A. I did not comment on that because the CMA did not rely
16 on a return on capital employed approach, and I was
17 instructed to look at their return on sales methodology,
18 so I do not think that I was -- it fell to me to
19 consider that, I was using it simply as a cross-check at
20 the time. I took no position as to whether the capital
21 employed could actually be determined more fully at that
22 time.

23 Q. Nor did you disagree with the relevance of that finding
24 to the question of whether ROCE was a suitable measure
25 for Flynn. You did not expressly say anything about

1 that.

2 A. I was not instructed to consider whether the conclusion
3 not to use the return on capital employed approach in
4 the first decision was reasonable. I was asked,
5 instructed, to consider whether the determination of the
6 return on sales was appropriate.

7 Q. I am actually on the slightly narrower point at the
8 moment as I think you may appreciate about the reasons
9 that the CMA gave at the very beginning at the outset in
10 its statement of objections where it said that it was
11 because Flynn's activities were people-intensive and as
12 a result -- so read as a whole what the CMA is saying is
13 that Flynn's business is driven by people skills rather
14 than large capital investment, and "as a result" --
15 those are the CMA's own words -- ROCE was not an
16 appropriate measure. I think that is a fair summary,
17 would you agree, of what the CMA was saying at that
18 time?

19 A. That is what the CMA said at that time. I am not party
20 to the analysis that they did to make that
21 determination. What I have done in the third report is
22 to consider whether what actually the CMA says in this
23 paragraph is true.

24 Q. Right, and so do you now disagree with paragraph 5.92 of
25 the CMA's statement of objections?

1 A. But I did not agree or disagree with that paragraph.

2 Q. I am asking you now: do you now disagree with it?

3 A. Yes, I disagree with it because I think that for Flynn
4 its capital can actually be determined, and I have made
5 clear in the first report, I think it was under --
6 either under cross-examination or it was a question from
7 the Tribunal where I made clear that if the intangible
8 assets can be determined or be shown to actually not
9 exist, that they do not need to be included, I explain
10 that the ROCE can be applied to asset-light businesses.

11 There is no -- the problem with an asset-light
12 business is the fear there may be assets that are
13 missing from the analysis, but if you conduct your
14 analysis and find there is no evidence of those
15 additional assets, plus other cross-checks, then the
16 methodology is reasonable.

17 Q. I put it to you that the CMA must have had an
18 intelligible reason for linking the people-intensive
19 nature of Flynn's business to the fact that ROCE was an
20 inappropriate metric. The reason was that the
21 people-intensive side of the business cannot reliably be
22 quantified, meaning that Flynn's returns might look very
23 high based only on the minimal capital assets that it
24 employs, and I put it to you that is the only sensible
25 interpretation of this paragraph.

1 A. That is what they believed at the time without
2 performing a full investigation on to the ROCE method,
3 but I am not aware of what analysis they did, I was not
4 instructed to look at it at the time, and, therefore,
5 I cannot really add any more. All I can now do is that
6 I understand they have applied the return on capital
7 employed, I have gone through their assessment of
8 tangible/intangible assets, I have gone through the
9 analysis as to whether the customer relationships -- the
10 labour part of the business is capital-intensive, and it
11 is not. And when we come to the costs stack information
12 that has been handed up as an exhibit, I can show the
13 Tribunal that the labour is only 3% of total costs; that
14 is not a labour-intensive business.

15 Q. Well, I hear what you say. I am putting it to you that
16 there was no other reason that the CMA could have had
17 for raising the fact that Flynn's business was
18 people-intensive. At that time, that was what the CMA
19 thought was important.

20 A. It is a factual matter. I cannot second-guess what was
21 on the CMA's mind at the time.

22 Q. Thank you. Just to bring us back to this appeal, there
23 is actually an analogy here with the President's Vanilla
24 Coffee Shop, it seems to us.

25 If you recall the spreadsheet that the Tribunal was

1 using does not attribute a capital value to the skills
2 of the family owners of the coffee shop. So they pay
3 their staff \$100,000 per year in the example and they
4 pay themselves, I think we are told, sporadically, but
5 there is obviously some volume in the family's skills
6 and expertise that have made their coffee shop the
7 success that it is, and that does not get captured in
8 the Tribunal's figures.

9 A. Well, if you were going to do a cost plus for a business
10 that had labour that was not actually being rewarded,
11 the standard way to adjust the cost plus would be to
12 determine a market wage rate for those people and
13 include it in the costs. That is the point that I made
14 earlier, the need to move away from accounting costs to
15 economic costs, and anyway in that business -- and
16 I think during the hot-tub I think we had an exchange
17 with respect to what happens if you have high labour
18 intensity, and I said in those circumstances if you did
19 have high labour intensity, then you would need to think
20 carefully about how you develop a return on capital
21 approach to make sure that there is not an intangible
22 asset associated with that labour cost, a material one
23 that you ought to take into account.

24 So, yes, you have to think about labour, you have to
25 think about capital intensity, but you also have to

1 think about whether it is a day-to-day operation or
2 whether there is something that makes you more
3 profitable.

4 Q. Thank you. So you are referring -- your view is that
5 usually at least in your view, that can be captured as
6 part of the costs by way of staff salaries, but I do
7 suggest that if that is the case, if that is a complete
8 answer, that would have been a solution at the time of
9 the CMA's Original Decision as well.

10 A. Again, I mean, it would have been, but I do not know the
11 work that the CMA did in reaching its opinion. It may
12 well be, and now I am just guessing, that they
13 thought: this is an asset-light business, I think that
14 it is more reasonable to do a return on sales, without
15 evaluating whether they could actually perform the
16 return on capital employed approach, but I do not know,
17 I am only speculating.

18 Q. Well, let us go to your reports, then. We have already
19 agreed that your instruction was to provide an
20 independent assessment of the CMA's Original Decision --

21 A. Return on sales.

22 Q. Of the CMA's Original Decision which at that time was
23 taking return on sales as their primary measure.

24 A. Correct.

25 Q. If we could turn, please, to {XE1/13/40}, so this is in

1 your first report, and if we could go to paragraph 4.11,
2 please, where you said at that time:

3 "The ROS methodology is often advocated for
4 companies that have low capital intensity."

5 The reason you were saying that at the time is, as
6 we have just seen and you have been explaining, the CMA
7 had found at that time that Flynn did have low capital
8 intensity, so you were explaining why the CMA was right
9 to find that militated in favour of a ROS rather than
10 the ROCE approach, and what you say in your report here
11 is that ROS is often advocated for companies that have
12 low capital intensities.

13 So can I ask: who were you referring to as doing the
14 advocating there? Did you mean academic papers or in
15 some sort of regulatory setting or something else?

16 A. I think I also explained in my cross-examination at the
17 time that the ROS methodology was, you know, generally
18 under consideration for asset-light companies. The
19 reason that that came about was during the CMA's review
20 of energy markets, and there was a question there,
21 because they are light businesses, where the return on
22 capital approach could be used, or whether it was more
23 reasonable to have regard to a return on sales, but
24 there was very particular issues with respect to the
25 energy market review on the return on capital employed,

1 we were working for the energy industry. Because the
2 one thing that it excluded was a very large contingent
3 liability which is something also I mentioned during the
4 teach-in or the hot-tub.

5 In effect, the energy companies have to take a bet
6 as to which way energy prices are going when they
7 capture new customers, and that bet can turn out to be
8 wrong and it can lead to a very large liability; that
9 liability could crystallise.

10 So we went through a process of determining the
11 value of that contingent liability using the same type
12 of tools that you would use in financial businesses
13 using bar 1 and bar 2 to determine the value of
14 contingent liabilities, and we advocated that if you
15 were going to add -- if you were going to do a return on
16 capital employed approach for these asset-light
17 businesses, you had to take into account a very real
18 risk that these businesses could go out of money if
19 there was a difference in the level of energy prices.

20 My understanding is that the CMA ultimately adopted
21 that approach.

22 Q. I see, so the "we" was you and your colleagues who were
23 doing work at that time in the energy sector which was
24 then adopted by the CMA?

25 A. I think that if you --

1 Q. This is just background. I do not want to give this
2 undue importance, but --

3 A. If you read any article, it will always say: if it is an
4 asset-light company, maybe the return on capital
5 employed approach is not appropriate, maybe a ROS
6 methodology is better if you can find sufficiently
7 comparable, but there is two "mays" in that. The
8 question is if you can determine any missing assets, if
9 you can control for those missing assets using
10 sensitivity analysis, then there is no reason that you
11 cannot use a return on capital employed approach which
12 is the approach that was used in both *Liothyronine* and
13 *Hydro* which are also asset-light businesses.

14 Q. Mr Harman, let us see if this makes you happier. Let us
15 look at {XE1/13/48}, paragraph 4.26 of your first
16 report, and this is where you come to your back-up ROCE.
17 You say you that the CMA's ROS benchmark "can be tested
18 using the ROCE framework" because it "provides an
19 indication of the minimum return investors would require
20 on invested capital".

21 So you were not putting forward ROCE as an actual
22 benchmark for a reasonable rate of return at this stage,
23 but you were saying it can be used to test the
24 reasonableness of the CMA's 6% ROS benchmark. That is
25 correct, is it not?

1 A. Yes, because the CMA had not done a full assessment of
2 both the tangible/intangible assets of the business, one
3 could not use it for anything other than a cross-check
4 at the time --

5 Q. Thank you.

6 A. -- and the reason that we say it is the minimum return
7 there is because it was Flynn who said: we need to have
8 high prices to cover our cost of working capital and to
9 explore the potential for a new API.

10 So when I refer to minimum return here, it says,
11 okay, these are the assets or capital that you are
12 saying needs a return on, so that certainly is going to
13 provide the minimum. There could be capital that has
14 not been calculated which I refer to in this report as
15 notional capital. That might be missing from the
16 analysis that has not been performed by the CMA or by
17 myself.

18 So for me this was just a cross-check saying: this
19 is the capital that I observe, if I use this approach
20 and it comes up with a return on sales that is above 6%
21 that would be very problematic, but it did not come up
22 with that, and that is the only way it was being used at
23 the time because nobody had done a full assessment of
24 any excluded assets.

25 Q. Okay. So still just sticking with your first report for

1 a moment, so this is relating to the Original Decision,
2 if we can look at paragraphs 4.27 to 4.29, so this is
3 still on page {XE1/13/48} and going over to page
4 {XE1/13/49}, please.

5 This is your attempt at the time to calculate
6 Flynn's capital base. At 4.27 you refer to Flynn's need
7 to recover the cost of working capital.

8 A. Yes.

9 Q. Then I think we can take this quite quickly, then at
10 4.28 -- this is important, you say Flynn only paid £1
11 for the marketing authorisation, so in other words it
12 did not make a big capital investment in the product,
13 and that you are:

14 "... not aware of any investments in tangible assets
15 that Flynn has undertaken to distribute phenytoin."

16 A. Correct.

17 Q. Then:

18 "Flynn's investments relate primarily to its
19 investment in working capital, including stocks of the
20 product, and the balance of debtors and creditors
21 (ie this is the level of investment that Flynn requires
22 a minimum return on)."

23 A. Yes.

24 Q. So what you were saying here in a nutshell was that
25 Flynn's activities in relation to phenytoin did not

1 involve any major capital investment?

2 A. Yes.

3 Q. That Flynn's only relevant capital is stock and debtors,
4 ie its working capital?

5 A. Yes.

6 Q. And that, therefore, it is asset-light. So you knew all
7 of that at the time of your original report.

8 A. But I have not -- as I said, at this stage, I am able to
9 observe what has been invested, so it is factual that
10 Flynn paid an amount for the market authorisation, it is
11 factual that it has a level of working capital. I asked
12 the CMA to calculate the level of working capital, so it
13 was not my calculation. What I have not done at this
14 stage is have any regard to intangible assets, and that
15 is why I refer to it as a minimum return.

16 Q. If we just for completeness look on page {XE1/13/38}, it
17 is actually a footnote. I am sorry, I have a missing
18 reference here. I am wrong. It is page {XE1/13/48}.
19 It is on this same page just looking at footnote 132
20 here so this is the footnote on these points.

21 So you refer there to Flynn's financial statements
22 for the relevant period?

23 A. Yes.

24 Q. We can just -- it is just a factual point: we can see
25 from that that you had access to these when you were

1 calculating Flynn's capital base during the first
2 appeal?

3 A. As I said, what I was relying on is information that was
4 contained in the financial accounts without having
5 a more deeper consideration of intangible assets which
6 was not included in the financial accounts.

7 Q. Well, Flynn's financial statements do contain
8 a statement of its tangible and intangible assets.

9 A. Those intangible assets relate to three licences that do
10 not pertain to phenytoin capsules.

11 Q. Right, presumably you took all of the tangible and
12 intangible assets into account when reaching the view
13 that the CMA had been correct to use ROS rather than
14 ROCE as a metric for Flynn. That is the point,
15 relatively narrow point, I am putting to you at the
16 moment?

17 A. I am saying that I had regard to the information that
18 was in the statutory accounts. Not all of the working
19 capital information was in the statutory accounts
20 because that records actual values, but there was other
21 evidence to say that they required higher buffer stocks,
22 for example, in the factual record.

23 In any case, what I am saying here is that this was
24 always a minimum calculation, it was always a floor;
25 I was not trying to produce what I thought was a full

- 1 return on capital employed approach.
- 2 Q. Okay. If we can go on to {XE1/13/50} of this, your same
3 first report, at paragraph 4.30, you apply a WACC figure
4 of 8.2% to 12% to Flynn's capital employed.
- 5 A. Yes.
- 6 Q. Then over on the next page {XE1/13/51} at 4.32 you
7 conclude that the cross-check supports the CMA's 6% ROS
8 benchmark because that benchmark is almost three times
9 higher than what Flynn would need to cover its cost of
10 capital?
- 11 A. Yes, I say that it corroborates the CMA's conclusion.
- 12 Q. Yes, and all of this was subject to the caveat that, as
13 the CMA had said in its statement of objections, and its
14 Decision, it did not consider ROCE to be the appropriate
15 metric for identifying Flynn's plus at that stage?
- 16 A. At the time, that was its conclusion. As I said, this
17 provided a minimum cross-check to make sure that the ROS
18 was sensible.
- 19 Q. What happened was that CRA and Dr De Coninck then
20 criticised your ROCE cross-check in a way which is
21 actually very familiar from this appeal, so I am afraid
22 we are into groundhog territory here.
- 23 We will come back, if we may, to the substantive
24 criticisms but for now I just want to look at how you
25 responded in your second report, Harman 2, and that is

1 at {XE1/14/38}.

2 At paragraph 4.28 you say -- maybe go to 4.29. You
3 say:

4 "I agree that there are some difficulties associated
5 with a ROCE-based approach for asset light businesses."

6 Then in the footnote, footnote 122:

7 "For asset-light businesses, one concern is that
8 total capital might be understated due to failure to
9 take into account intangible assets, which are not
10 capitalised within the financial accounts."

11 A. I think that is consistent with what I have just said.

12 Q. Yes. So the intangible assets that you were referring
13 to here at this stage must be the people-intensive
14 activities carried out by Flynn that the CMA had
15 originally identified in its statement of objections.

16 A. This is a general comment saying that for asset-light
17 businesses it may miss intangible assets. That is all
18 that it is saying.

19 Q. Well, yes, I see that, but I have shown you that you had
20 access to the financial statements, they gave you
21 information about some intangible assets. I have shown
22 what you the CMA said in its original statement of
23 objections, and I am putting to you that the only
24 sensible understanding of what at that time was being
25 looked at by way of unknown intangible assets were the

- 1 people-intensive activities carried out by Flynn.
- 2 A. I think that there is a question as to whether there is
3 an intangible with respect to labour. That was not
4 addressed in my analysis. It is something that has been
5 considered in the Remittal Decision.
- 6 Q. What I am putting to you -- this, as I said, is akin to
7 the skill and effort in the mom-and-pop Vanilla Coffee
8 Shop, it is what is driving the business, but it is an
9 invisible -- it is, if you like, invisible on the
10 balance sheet. That is what the CMA was concerned about
11 at the time.
- 12 A. They would have been concerned about to the extent that
13 the labour force allowed the business to earn higher
14 returns that was not captured in wage costs, then that
15 could be a potential missing intangible. That would
16 have been their concern at the time without
17 investigating that further.
- 18 Q. I am grateful. Just while we are here, can we pick up
19 paragraphs -- I think it is over on the next page, page
20 {XE1/14/39}, paragraphs 4.30 and 4.32 of your second
21 report. You really go out of your way here to say that
22 given the unreliability of ROCE for an asset-light
23 business such as Flynn, the only purpose of your ROCE
24 analysis was to ensure that the CMA's ROS benchmark was
25 not set at a level that was obviously too low, and that

1 was the point that you were --

2 A. I do not accept your interpretation that the return on
3 capital employed approach cannot be used. What I am
4 saying here is that having only identified working
5 capital, then it can only be used as a cross-check to
6 make sure that it is not set, obviously set, too low.
7 Again, I have not, at this stage, calculated or
8 considered any missing intangible assets. So that is
9 why it is a minimum.

10 Q. Then if you go on to paragraph 4.32, please.

11 A. Yes.

12 Q. The point is that you are not suggesting there that
13 a high ROCE in itself indicated excessive profitability.

14 A. A high return on capital employed, when an asset base is
15 low, has to be considered with other evidence.

16 Q. Thank you. So let us move on now, if we may, to what
17 you say in these proceedings. If we could go to
18 {XE1/15/34}, please, this is in your third report, at
19 paragraph 4.2.3, and you acknowledge here that the CMA
20 has switched horses from ROS to ROCE, and you say:

21 "The CMA changed its methodology following its
22 review of the evidence provided by Flynn and its experts
23 before the [Competition Appeal Tribunal] and the
24 Court of Appeal as well as Flynn's representations on
25 the CMA's statement of objections and the data provided

1 by Flynn as part of the CMA's Original Decision."

2 A. I see that.

3 Q. So you are saying that the CMA has changed its position
4 as a result of new evidence that has come to light,
5 meaning that -- and again, I am quoting here --
6 difficulties previously perceived in measuring Flynn's
7 capital base are no longer well founded.

8 A. I am not sure that I say that it is new information. In
9 that list there is obviously new information that has
10 happened after the CAT's findings. So there is a degree
11 of new information, and there is a degree of existing
12 information.

13 Clearly what the CMA did was focus on that
14 information, both new and old, and is as is sensible
15 I suspect following the appeal court that it had to
16 rethink things through, and it concluded based on that
17 analysis that you could perform a ROCE approach, but,
18 again, you would have to ask the CMA as to what the
19 dividing line between the first Decision and the second
20 Decision as to what it was unable to do the first time
21 round and what it could do the second time around.

22 Q. Well, let us look at what the CMA -- they have
23 identified the new evidence that they believe has come
24 to light on this point. If we could go to {XA1/1/160},
25 please, this is paragraph 5.59 of the Decision.

1 So this is the part of the Decision where the CMA is
2 explaining the new evidence which it says justifies its
3 change of position, and you can see first it refers at
4 5.59.1 to the fact that Flynn had not invested heavily
5 in relation to phenytoin during the relevant period.

6 Now, just pausing there, that cannot come as
7 a revelation to you since the first appeal, can it?
8 I mean, if Flynn had invested heavily in relation to
9 phenytoin, those investments would show up on its
10 accounts which you relied on, as we saw, as part of your
11 first original work.

12 A. I mean, that would be correct in terms of tangible
13 assets, but --

14 Q. I am just talking about specifically this point, the
15 investments.

16 A. -- but they could have invested in intangible assets,
17 but they did not meet the rules of IAS38 which is the
18 conditions on when you can capitalise intangibles, and
19 if that was the case, then it would not be included in
20 the statutory accounts.

21 Q. Are you really saying you did not know at the time of
22 the first appeal that --

23 A. I cannot say what the CMA knew and what it did not know.
24 As I said --

25 Q. What did you know? You were giving evidence as an

1 independent expert, with respect.

2 A. I have said before that I was not instructed to
3 determine whether the CMA was right to not use the
4 return on capital employed. I have said that I have
5 used it as a cross-check.

6 Q. I am not asking you about that, Mr Harman.

7 A. But I think that it is -- you know, I have been aware
8 throughout the whole process that there is limited
9 investment in phenytoin capsules. As to when the CMA
10 recognised that, I cannot say.

11 Q. But you have been aware throughout that there was
12 limited investment, I am grateful.

13 Then 5.59.2, the CMA says it has emerged that Flynn
14 had not innovated in relation to the relevant products.

15 Now, if Flynn had spent money innovating in relation
16 to phenytoin that would also be reflected in its
17 accounts, would it not?

18 A. I mean, it would definitely either be included in costs
19 in the P&L, if it met the right accounting requirements,
20 potentially it could be capitalised.

21 Q. You did not say anywhere in your previous reports that
22 you were concerned there had been some innovation by
23 Flynn that was unaccounted for, so at the time of the
24 original appeal, what innovation did you think might
25 have taken place?

1 A. I mean, at the time of the first report my
2 understanding -- and it is in my reports -- is that
3 there was limited investment. There was no innovation.
4 There was zero sales and promotion costs. So I think
5 that is common cause. What I did not know with respect
6 to other aspects of intangibles is to the extent there
7 was a justification for including them.

8 All of these things I have said in all of my reports
9 suggests that all else being equal, phenytoin capsules
10 is a low risk business requiring low returns on its
11 business.

12 These are the standard inputs into that
13 consideration.

14 Q. Well, if we could just look briefly, please, at the
15 Original Decision at {XA2/1/7}. This is the CMA's
16 Original Decision at paragraph 1.16 -- this is part of
17 1.16 at the top of the page. You can look at the
18 beginning of the paragraph if you need to, but I do not
19 think we need it.

20 It is just the CMA's case against Flynn at the time
21 of its Original Decision was that "the product has not
22 been subject to any recent innovation". You see that?

23 A. Yes, I mean, that is consistent with what I have just
24 said my understanding is.

25 Q. Yes, and if we could maybe split the screen at this

1 point and put that up against {XA1/1/160} which is
2 paragraph 5.59 of the Remittal Decision that we were
3 just looking at, the CMA now says that new evidence has
4 emerged to the effect that Flynn had not innovated in
5 relation to the relevant products, and I put it to you
6 that it is bordering on disingenuous to suggest that
7 this is a revelation since the previous appeal.

8 A. At the first stage it was obviously something that they
9 considered to be true. What this is saying is that the
10 CMA adduced more evidence and confirmed that there was
11 very little fixed capital employed.

12 I cannot say any more than that.

13 Q. Well, it is not what it says, but moving on to 5.59.3 of
14 the Decision that we were just looking at, please,
15 {XA1/1/160}, that refers to Flynn's confirmation that it
16 had incurred "zero promotion costs during the Relevant
17 Period". That is what you were just mentioning.

18 A. Yes.

19 Q. If we could turn up {XE1/7/12}, please, if we can just
20 have that page, we do not need the others, thank you.

21 This is Dr De Coninck's second report, and if we
22 look at paragraph 32, it was Dr De Coninck's report
23 provided alongside Flynn's first appeal, so it pre-dated
24 all of your own reports, and he refers there to Flynn's
25 products which have:

1 "... zero sales & promotion and amortisation costs
2 (similar to Phenytoin)..."

3 So you knew by the time of your first report that
4 phenytoin had no sales and promotion costs. Again, this
5 is not new.

6 A. No, I knew that to be the case.

7 Q. So can you say hand on heart as an expert that any of
8 these three points that the CMA are now referring to,
9 whether any of them came as a revelation to you between
10 the first and second appeal?

11 A. It did not come as a revelation to me.

12 Q. I am grateful. What I am putting to you is that there
13 has been no truly new evidence between the first and
14 second appeal. Rather what has happened is that the CMA
15 has cast around to try to justify its change of position
16 and that you, as an independent expert, as you have
17 candidly accepted, cannot really say that anything new
18 has emerged?

19 A. Well, in relation to those first three points, I mean,
20 I do not know why the CMA changed its mind. My review
21 has to be, having changed its mind, has it come up with
22 a reasonable conclusion but I agree that those three
23 factors were known to me; I do not know to what extent
24 the CMA based on new evidence placed more weight on
25 them. I cannot answer that question.

1 Q. Thank you. Moving on, I want to come now to your
2 attempt to capture the value of what you have called
3 Flynn's human capital which you will recall was the
4 CMA's previous reason for deprecating ROCE as a measure.

5 So you deal with this in your third report, if we
6 could have {XE1/15/40}, please, and I want to look at
7 paragraph 4.5.4 where you say:

8 "... the costs of Flynn's human capital were
9 reflected in salaries and other employment costs, which
10 the CMA included in its Cost Plus."

11 So we have already touched on this, but I am coming
12 to it properly now: you are counting Flynn's people
13 skills as a cost rather than an asset. That is correct,
14 is it not?

15 A. Yes, I mean, you can do one of two things: you can
16 either treat them -- well, I am not saying you can treat
17 them as an asset. They are being treated in line with
18 the accounting policies as costs reflecting their value
19 in a competitive marketplace.

20 What you cannot say, observing a total amount of
21 labour costs, is to suggest all of that is some
22 intangible. Generally an intangible means I have done
23 something, some part of my team has done something that
24 is valuable that allows us to sell more into the future.

25 So if you were going to consider capitalising, you

1 would need to think about the costs that have gone into
2 that that generates future revenues. That could be some
3 kind of training programmes, internal training, internal
4 processes and activities of that ilk. If you found
5 evidence of that nature, then it would be potentially
6 possible to capitalise that as an asset. You would have
7 to take that cost out of the profit and loss account
8 because it has now been captured as an asset, and you
9 would then amortise that value over the life of that
10 intangible asset.

11 Q. Well, Mr Harman, sorry to interrupt, I am actually on
12 a slightly different point at the moment. What I want
13 to put to you and explore is that if that was a good
14 solution, if treating all of this human capital as cost
15 rather than asset was a good solution, it was available
16 to you and the CMA during the first appeal, was it not?
17 You already had Flynn's salary and employment costs.
18 That is not new evidence.

19 A. We certainly had the employment costs. I cannot
20 remember in the first Decision as to the level of
21 evidence that a proportion of that expenditure related
22 to the generation of an intangible asset. As the CMA
23 says in its Remittal Decision, the costs that were put
24 forward seem like day-to-day activities which would not
25 normally be expressed as intangible assets.

1 Q. Well, I put it to you that Dr De Coninck is correct that
2 the value of a people-intensive business such as Flynn's
3 cannot be captured simply by looking at staff wages.

4 Just for the note -- I do not think we need to turn
5 this up -- that is in Dr De Coninck's seventh report at
6 paragraph 19 which is {XE1/12/9}.

7 So the cost of Flynn's workers is captured by
8 salaries, etc, but not their value. That is the point.

9 A. I think -- I mean, two things. One, I disagree that you
10 would categorise this as a labour-intensive business.
11 Labour costs account for 3% of total costs. When
12 phenytoin capsules came in, it already had a demand
13 which was certain. They did not have to do any
14 promotion, they did not have to do any marketing, and,
15 therefore, the value associated with labour for the
16 distribution of phenytoin capsules seems fairly low
17 given that the market already existed.

18 So for me this is not a business with phenytoin
19 capsules that seems to be requiring very high returns
20 because it is labour-intensive when it is not.

21 THE PRESIDENT: Well, just pausing there, you were asked
22 whether the value of a people-intensive business such as
23 Flynn's cannot be captured simply by looking at staff
24 wages, and what you are saying is actually looking
25 simply at number of people, it is not people-intensive.

1 A. Correct.

2 THE PRESIDENT: Can you quantify, if it is a relevant
3 measure, the qualitative value that a small number of
4 people in the business might bring? In other words, to
5 what extent is simply staff wages insufficient to
6 capture what these people bring to the business, and is
7 that something that you regard as within your
8 qualifications as an expert economist, not as an expert
9 in the pharmaceutical business?

10 A. I think that is fair in terms of I am not an industry
11 expert and so I am not going to value what that is, if
12 there is a value associated with that, but I think that
13 it is important to understand that, you are right, there
14 could be small numbers of people doing highly valuable
15 things, and what would I say might that be? Well, if
16 you were in the patenting sector, if you come up with
17 a new drug, one person, you know, a person who is very
18 intelligent comes up with something that is going to
19 make the business a lot of money, then that is quite
20 clearly the type of added value that would be important
21 to the business, but if it is the supply of something
22 that already has a demand, then it is not obvious to me
23 that the value over and above wage costs and value over
24 and above the cost of capital that you allowed them
25 would be material from an economic perspective, and

1 I think the CMA was unable from its interactions with
2 Flynn to put a material value to those activities.

3 THE PRESIDENT: Just to be clear, then, this is something
4 where you are following the CMA's lead, you are not
5 bringing your own independent judgment to bear, because
6 it is outside your expertise?

7 A. Yes, I think that is fair. What I am relying on there
8 is an accounting expertise that would say: if value was
9 being generated by labour, then that would be something
10 that could be capitalised on the balance sheet.

11 THE PRESIDENT: Yes, but the "if" is unanswered by you?

12 A. Correct.

13 THE PRESIDENT: I am grateful.

14 MS STRATFORD: I am very grateful.

15 I will just round this off by reminding you, and
16 respectfully the Tribunal, that the CMA did find in its
17 Original Decision -- and this is one of the reasons why
18 I took you to it -- that ROCE should not be applied to
19 Flynn because it was a people-intensive business. So
20 that language that I use, "people-intensive" did come
21 from the CMA.

22 Moving on, the long and short of your position is
23 that Flynn's only capital assets are its stock and its
24 net debtors; that is right, is it not?

25 A. That is the observable level, but then I do various

1 sensitivities to capture the value -- potential value of
2 missing intangibles, and at the most extreme I perform
3 the excessive pricing calculations assuming capital that
4 is three times the level of their actual capital
5 employed.

6 I also do a calculation where I take all of Flynn's
7 capital and allocate it all to phenytoin capsules to
8 understand what impact that has. So even when I start
9 to take more extreme values of capital employed, which
10 could capture any missing intangibles, then one finds
11 the result relatively insensitive to increases in
12 capital employed.

13 Q. Well, Mr Harman, I was going to come to this at the end,
14 but if it is not -- at the end of this topic, if I can
15 call it that. Since you have jumped ahead, you say that
16 you multiply -- you call it a cross-check and you
17 multiply what you say is Flynn's only capital employed,
18 ie its working capital, by 1.5, 2 and 3. That is, just
19 for your note, that is at paragraph 4.5.14 of your third
20 report.

21 But if we are right that ROCE is fundamentally the
22 wrong approach because it misses out the key thing that
23 is driving Flynn's business, if you just assume that for
24 a moment, then it is no answer to arbitrarily double or
25 triple or whatever you want to -- whatever metric you

1 want to apply, multiple you want to apply, the
2 understated amount of working capital employed as
3 a cross-check, is it? It is just putting a finger in
4 the air.

5 A. No, I do not think so. I mean, what we are trying to do
6 is assess whether the level of capital employed, if you
7 multiplied it by three, for example, seems generous to
8 the overall calculation, given the size of labour costs.

9 Now, there is another cross-check that one could do.

10 If the value --

11 Q. Is this one you did, Mr Harman? Sorry to interrupt. Is
12 this a cross-check you did do or it is one you could do?

13 A. Well, I mean, it is what -- I mean, I am trying to --
14 based on the financial accounts, what we can observe is
15 that prior to phenytoin capsules coming, Flynn was
16 loss-making, and it had all of its people in the
17 business adding all this value, but it was loss-making.
18 Phenytoin capsules comes along and then suddenly Flynn
19 is highly profitable, but there has been no change in
20 underlying costs.

21 My assumption is that if there were intangible
22 assets associated with the other products, then we
23 should be able to see high value for those other
24 products, yet, despite that, across the whole of the
25 relevant period, the profitability of other products on

1 average was low and the profitability of phenytoin
2 capsules was high, and it was high because the price
3 went up exceedingly high and demand did not change.

4 Q. We are going to come to look in detail at Flynn's other
5 products so it may be frustrating for you, but you are
6 jumping around quite a bit, and I think it is helpful to
7 take these things logically, please.

8 A. But that is a cross-check that tells you something about
9 the value, that change in profitability, about the value
10 that this capital-intensive business was generating
11 prior to phenytoin capsules and --

12 Q. I hear your case theory, if I can call it that, we will
13 come back to that.

14 What I am on at the moment is that Flynn's only
15 capital assets really, we have agreed, were its stock
16 and net debtors, and I want to just look, if we may,
17 please, in Mr Williams' fifth report, this is {XE2/5/5}.
18 This is at paragraph 14 of his report, and you will be
19 familiar with this table, and in fact, Mr Williams
20 showed it to the Tribunal as part of his teach-in.

21 So Mr Williams is making the simple point here that
22 where a company's only capital consists of working
23 capital, its permitted return and therefore price varies
24 wildly with how quickly it pays its creditors and how
25 quickly its debtors pay their bills.

1 Now, the basic logic of this calculation I do not
2 think you would disagree with as an exercise, as
3 a theoretical exercise, and it chimes with a point that
4 the President has been putting to the experts at various
5 points which is that where you have an asset-light
6 business, the permitted price based on a return on
7 capital approach varies wildly with subjective and
8 irrelevant factors such as, for example, the ones that
9 are identified in this table.

10 A. No, I mean I disagree because what the CMA has actually
11 looked at is actual working capital balances, so it is
12 not devoid of the real world. It has taken an average
13 over time to make sure there is no fluctuations. It has
14 not looked at the actual level, it allowed a much higher
15 allowance for capital employed.

16 Businesses tend to choose their working capital
17 carefully, there is an efficient level. If it was
18 a negative balance and there was no other assets, that
19 would lead to questions of technical insolvency. So if
20 you have working capital in your business and you allow
21 for some notional capital, you are providing the company
22 what it actually needs on its investments, I mean, so
23 the example here is a hypothetical one, and of course,
24 you can come up with any answer that is hypothetical,
25 I could come up with hypothetical return on sales

1 examples that do not make much sense, but we are
2 actually dealing with Flynn's actual costs which is what
3 I understand the first limb of *United Brands* to be
4 considering, actual costs, not hypothetical working
5 capital.

6 Q. Just in case I mis-spoke a moment ago, just for the
7 Tribunal, I did not intend to suggest that the President
8 had suggested the factors were irrelevant, and I am
9 sorry if I said the wrong thing there, but certainly
10 subjectivity is -- I think we would contend that some of
11 them are irrelevant. I did not want to in any way be
12 inaccurate.

13 Sorry, Mr Harman, coming back to you, your position,
14 therefore, you are saying it is not hypothetical, we
15 want to be in the real world, but I understand where
16 this takes us is that a company must not only do a ROCE
17 analysis but must adjust its actual capital costs to
18 what it considers to be a competitive level of costs.
19 Is that right?

20 A. I think that is generally the basis of a cost plus, that
21 you are trying to look at a level of efficient costs
22 that would take place under workable competition.

23 If you were inefficient you would want to take that
24 into account and if you were very efficient then you may
25 say: well, that is an additional return that you should

1 be allowed to have, and you can modify the cost plus for
2 that.

3 What I am saying here when you are working with
4 capital employed, I think that you do have to give
5 a margin, you know, for error, and, therefore, allowing
6 increasing levels of capital employed over actual levels
7 is being conservative and it is reasonable to be
8 conservative, and I think that the various cross-checks
9 that the CMA has done are reasonable in that regard.

10 Then the second thing that one has to take into
11 account is obviously the absolute returns, so one does
12 not just look at the return on capital employed results.

13 Q. Do not worry, we will spend plenty of time on that. But
14 you are saying, therefore, that to calculate a fair
15 price a company has to not only do a ROCE analysis,
16 which Mr Williams has told the Tribunal most
17 pharmaceutical executives, with respect, would not have
18 a clue what you are talking about, but you do not only
19 do a ROCE analysis, you also have to adjust your actual
20 capital costs to reflect what is a hypothetical
21 competitive level of costs?

22 A. I am saying that in a case where you are dominant and
23 you want to consider your position, then one might have
24 to have regard to these situations.

25 Q. Okay.

1 A. As I have said, it is completely consistent with the
2 analysis that is done in *Lio* and *Hydro*.

3 Q. Let us go back if we may to the key passage at the
4 original statement of objections. This is {XA2/2/253},
5 please, and paragraph 5.92.

6 The point I am putting to you now is really the
7 point that the CMA started with that Flynn "employs
8 minimal capital assets" meaning that ROCE was "not
9 appropriate for assessing what a reasonable rate of
10 return would be for Flynn", and I am putting to you that
11 the CMA was right for the reasons that it gave at the
12 outset of the investigation.

13 A. All I can say is that that is the CMA's thinking at the
14 time. In the new analysis that it has done, it has
15 assessed whether it accepts that customer relations and
16 a people business is something it should give an
17 allowance for and for the reasons set out in the
18 Remittal Decision it decides not. So that is a change
19 in the position.

20 Q. Thank you. I want to move on from the debate about
21 whether ROCE is the correct metric and look now at the
22 actual ROCE rate that you have attributed to Flynn, so
23 I want to, if we may, discuss this using a simplified
24 example, and I do appreciate that the real world may be
25 more complicated, but bear with me and let us just take

1 this hypothesis.

2 THE PRESIDENT: Just to interrupt, Ms Stratford, I wonder if
3 we could go back to page 90 on the transcript.

4 MS STRATFORD: Sorry, I do apologise.

5 THE PRESIDENT: No, not at all. It is because you are
6 moving on and I had a question which I have -- so if we
7 could put on the -- yes, thank you.

8 So we can see that you are being asked about how
9 your ROCE analysis is done by Ms Stratford just now, and
10 the question being put is to what extent you do not do
11 a ROCE analysis per se but you adjust it to reflect
12 a hypothetical competitive level of costs. Is that what
13 you see your role as doing, that you do not just assess
14 ROCE as it is in the case before you but that you adjust
15 it in order to reflect how things should be?

16 A. I think that is -- generally with these types of
17 analyses you are trying to work out what costs may arise
18 in a competitive marketplace, and it may be that as
19 a firm you have a special advantage.

20 So, for example, in a case that I worked on in
21 South Africa in the chemicals industry, Sasol -- and
22 this is in the public domain so I can talk about it --
23 because of its fuel process which is a coal to fuel
24 process, it is a bit unusual, it has byproducts that it
25 is difficult for it to recycle back into the generation

1 of fuel. So it then sells that product downstream to
2 the chemical company at a very low price representing
3 its fuel alternative value, ie what it could do with
4 that asset alternatively, but that is something that is
5 bespoke to Sasol and its downstream organisation.

6 If there was a competitor in the marketplace it
7 would be a normal oil process, and the normal oil
8 process would spit out a byproduct that was actually
9 very valuable, so the transfer price under that
10 situation would be much higher.

11 So in that case, there was a debate as to should you
12 take into account the observed low transfer price
13 because it was a special advantage of the company due to
14 its fuel processes, or should you have regard to
15 a higher price that would develop under conditions of
16 normal and sufficiently effective competition, and if
17 the answer to that question is "yes", then you would say
18 we need to increase the costs stack to give rise to that
19 efficiency, and I think that that is -- I am not going
20 to interpret the *Hydro* judgment, but that seems like
21 a case 1 type of issue that if you were efficient you
22 should be allowed a higher return and one of the ways
23 that you can reflect that higher efficiency, that
24 special advantage in your costs stack is by adjusting
25 your efficient cost upwards to what you would expect in

1 a normal marketplace.

2 THE PRESIDENT: So the answer is, yes, you do adjust?

3 A. Yes, I think you should.

4 Now, there is a question that you do not see as
5 often, but I think that is equally applicable: what
6 happens if you are inefficient, you are a dominant
7 undertaking.

8 THE PRESIDENT: Well, that is my next question. Assume
9 a dominant undertaking and assume that its costs are, as
10 you say, inefficient.

11 A. Yes.

12 THE PRESIDENT: And let us suppose that on that assumption
13 the gap between costs and price would not be excessive.
14 So what you do is you look away from the actual costs
15 and you say: well, if this undertaking was properly
16 efficient, the costs would be lower --

17 A. Yes.

18 THE PRESIDENT: -- and the gap between price and cost would
19 be excessive?

20 A. Yes, so the economic literature would say that if you
21 were very inefficient then that could mask
22 excessiveness, and you should adjust. Now, the logic
23 I think probably goes all the way back to monopoly
24 theory: one of the problems with monopolies, because
25 they do not have to try so hard because there are no

1 competitive pressures, you can be inefficient --

2 THE PRESIDENT: I know that the theory -- I am sorry to

3 interrupt, but I know that the theory is that one of the

4 reasons one has competition is because monopolies trend

5 to inefficiency because they can make their profits

6 without having to worry about efficiency. We do not

7 need to have that debate. I am just interested in your

8 approach, and what I think you are saying -- but correct

9 me if I am wrong -- is that your ROCE analysis is to

10 that extent a counterfactual analysis and that you are

11 looking at the actuality but you are then adjusting it

12 both in regard to the undertaking under consideration

13 and as regards any comparators to try to harmonise them.

14 A. Correct. You are trying to come up with a cost plus

15 that you believe would reflect outcomes, or an outcome

16 under conditions of workable competition. So, yes,

17 I mean, I agree, I think that you should, but I have

18 seen two different ways: one way is to include it, but

19 the other way is to not include it, and then when

20 interpreting the size of the excess, to have in the back

21 of one's mind either you are efficient or you are

22 inefficient, but there are techniques that allow you to

23 quantify in cost terms the size of the inefficiency and

24 if you can, I would say you should include it both for

25 efficiency and inefficiency.

1 THE PRESIDENT: But you recall in the Vanilla Coffee Shop
2 example, the mom-and-pop shop, in that example left out
3 of account was the value of the premises.

4 A. Yes.

5 THE PRESIDENT: You said then -- and I infer you will be
6 saying now -- that the costs stack of the Vanilla Coffee
7 Shop should be adjusted to reflect a cost line
8 representing the premises insofar as they can be
9 allocated to the lines of coffee sold.

10 A. Yes, so, you know, you might have a situation in London
11 that someone opened their mom-and-pop store 200 years
12 ago, it is sitting on The Strand, it is an expensive
13 piece of real estate and the question there is going to
14 be, well, what price would emerge under competition if
15 somebody came next door and would have to pay the price
16 of real estate today. Through history, you have ended
17 up with a special advantage that means that you are more
18 competitive than others.

19 THE PRESIDENT: Well, that is assuming your price is lowered
20 to reflect the fact that you consider your costs to be
21 less.

22 A. But I think the general valuation -- not valuation,
23 but --

24 THE PRESIDENT: I am not interested in valuation, I am
25 interested in cost and price.

1 A. I think the competitive outcome in that situation, if
2 there were other coffee shops in the vicinity acting
3 under normal and sufficiently effective competition,
4 they would observe the prices and they would increase
5 their price to a level that allowed them a higher
6 return. They are able to earn that return because they
7 have a special advantage.

8 THE PRESIDENT: But what happens if in our coffee shop
9 example the mom-and-pop shop is undercutting, in other
10 words, they are taking the view that they are very
11 lucky, they have inherited their premises, they are not
12 regarding it as a cost because they have simply
13 inherited it, and they are charging 50p less for their
14 espresso compared to their rivals because they can.

15 What are we to make of that price? Do you adjust
16 the price upwards when you are thinking about the
17 business of the mom-and-pop shop? Do you convert them
18 into a loss-making enterprise by saying: well, the costs
19 stack is inaccurate because a cost line has been
20 omitted? What do you do?

21 A. But in this situation they are not dominant so you would
22 not be doing this calculation anyway. They would be
23 free to charge what they like.

24 THE PRESIDENT: Mr Harman, that may very well be true, and
25 we will come to that when we write our judgment.

1 A. Yes.

2 THE PRESIDENT: What I am interested in is the
3 methodological underpinnings of your method. What you
4 are saying is that you conduct an adjustment when you
5 are doing a ROCE analysis?

6 A. Yes.

7 THE PRESIDENT: You are doing an adjustment to cost to shift
8 it into line with what costs should be.

9 A. Yes.

10 THE PRESIDENT: Now, if you say that that is an exercise
11 that only pertains when you are considering a dominant
12 undertaking alleged to have abused its position then
13 I think we need to know that because you are presenting
14 your ROCE WACC as something which is a general thing
15 that is market-wide understood and is, as it were, the
16 gold standard for how one does it.

17 Now, if it is actually a gold standard that is being
18 atypically used when one is considering a dominant
19 undertaking said to be abusing its position then that is
20 a significant qualification on your approach.

21 So I am not going to accept the answer that
22 mom-and-pop shops are not dominant. What I want to know
23 is the process by which you go about standardising --
24 and if you do not like that word do say so --
25 standardising cost base versus price.

1 A. So reflecting on that. So the example where somebody
2 chooses not to be as profitable based on what they could
3 charge is not generally consistent with economic theory
4 and outcomes. People in general tend to
5 profit-maximise. There may be rare instances where
6 companies do not, but there would be an expectation that
7 mom and pop would want to earn a return that reflects
8 a competitive outcome.

9 So in the case of the mom and pop setting a price
10 that was low, if they were found to be dominant and you
11 observed their actual cost base you might go: you are
12 dominant. Even though you have lowered your price, your
13 costs are -- you know, you are not charging for your
14 labour, you have no rental costs, you have no capital
15 invested in the business.

16 Then you would get the wrong answer because in
17 reality the cost that they actually face -- and it is an
18 opportunity cost in part, because they are sitting on
19 a piece of real estate that somebody would pay more for
20 than what they are using it for. So this is where the
21 opportunity cost: what could I do in the alternative
22 with this asset? I could sell it to a competitor. How
23 much is the competitor willing to pay me? That gives
24 you a benchmark for what type of return they would
25 expect to earn.

1 So I think in the real world people will observe
2 what other companies prices are, they will make pricing
3 decisions based on their own circumstances, but if you
4 then want to test whether any one of those prices is
5 excessive, you would need to adjust their cost,
6 otherwise you would end up with the wrong result.

7 So I think efficiency does matter.

8 THE PRESIDENT: If I may, I will press you on that.

9 The thing is let us take it that mom and pop do want
10 to earn as much as they can out of their business, they
11 are not in it for altruistic purposes, but they have
12 subjectively decided they do not want to sell their
13 business, they quite like being in the business of
14 selling coffee, it is the only thing they are good at,
15 and they want to carry on in business.

16 So they decide that they are not going to sell
17 their, let us say, theoretically very valuable premises,
18 but they are going to provide the best value, that is to
19 say good quality but cheaper than their rivals, coffee
20 that they can, and so they say: well, we are not selling
21 up, we know that our premises are worth a great deal of
22 money but we have inherited it from our parents and our
23 grandparents and it is just not a cost line, it is like
24 your coal mine, that has a value if you were to sell of
25 a large amount of money but is not valued in that way by

1 the business because they are not paying any rent and
2 they are not including it in their calculations of cost
3 versus price.

4 So they are banking that cost saving, and they are
5 pricing accordingly, and they are therefore selling, let
6 us say, because the demand for coffee is elastic, they
7 are therefore selling more coffee, and those happy
8 members of the public who get into the coffee shop get
9 a good deal because their espresso is 50p less.

10 So why is this not the way to view the economic
11 world? Why are you saying that there is something wrong
12 with their understanding of cost and their pricing
13 approach as a result of cost, accepting as I do that if
14 they were to sell it, you would obviously say there was
15 an asset worth a great deal of money, but they are not
16 selling, they are staying in business?

17 A. Yes. Well, I think you may find a small number of
18 exceptions in the world where people are altruistic and
19 do not set out to profit-maximise. I would say that
20 earning a return in this world is fairly difficult.
21 You know, everybody has a pension adviser that says they
22 are going to beat the market and invariably the returns
23 are equal to the marketplace, so deriving value is
24 difficult and people will look to the market to
25 understand what return they are earning, in the real

1 world, there may be exceptions to that.

2 If a business decides not to profit-maximise, which
3 is obviously not the case that we are looking at here in
4 terms of excessive pricing, they are free to lower their
5 price, they are free to earn a lower return, but I do
6 not think that is helpful, necessarily, in understanding
7 something around excessive pricing.

8 I have done lots of work where companies are very
9 interested in the value of their underlying assets and
10 seek to earn returns that are commensurate with that
11 underlying value, and I am finding it difficult to think
12 in terms of big corporate, which are owned by
13 shareholders, who are profit-maximising by nature,
14 wanting to maximise returns.

15 So there may be a distinction between a mom-and-pop
16 that does not have external financing, but I would
17 expect there is a lot of mom-and-pops that do not have
18 external financing that would seek to profit-maximise.

19 THE PRESIDENT: So your only answer to treating mom-and-pop
20 differently is that they are altruistic?

21 A. Well, I do not understand what the -- I mean, either
22 they are altruistic or they are profit-maximising.

23 THE PRESIDENT: Well, let us assume they are
24 profit-maximising.

25 A. Okay.

1 THE PRESIDENT: They are just lucky because they have
2 parents who have willed them their property.

3 A. Then the question is, and it is a normal economic
4 outcome, they can price at a discount to the prices they
5 observe in the marketplace, and they can profit-maximise
6 subject to constraints. So obviously if you price too
7 low and there is too much demand you are going to have
8 a queue down the road in this example.

9 THE PRESIDENT: Yes, I mean our mom and pop are not
10 altruistic, they are, let us hypothetically say,
11 grasping, they want to get as much as they can out of
12 their business, and let us say that their price at 50p
13 lower than the price of others in the market is
14 a profit-maximising price. In other words, if they
15 increase their price, then demand is sufficiently
16 elastic that it would move away because the quality of
17 the coffee ain't that good.

18 So they are pricing sensibly given that the market
19 is, in this hypothesis, price-sensitive.

20 A. Yes.

21 THE PRESIDENT: What they are doing is they are riding their
22 luck, their good fortune that they have inherited the
23 premises, and therefore do not have to pay anything to
24 do exactly that.

25 Now, why is that altruistic and why is it an

1 exceptional case to the general rule which is that you
2 have to, according to you, look at the manner in which
3 you, looking at the assets, would price those assets in
4 order to maximise your profit which includes the selling
5 of them, which people may not want to do?

6 A. So the answer is this: they can determine where the
7 profit-maximising price is based on their own cost
8 structure, they can do that, they are welcome to do
9 that. The point coming back -- there are many different
10 ways to think about pricing, you can choose to do that,
11 but when it then comes to determining whether that was
12 an excessive price, it is reasonable to understand the
13 true underlying cost of that business, otherwise you
14 would get examples of companies that have enjoyed low
15 costs from many years ago from the investments they made
16 then that are not reflective of conditions of normal and
17 sufficiently effective competition today.

18 So there is a difference, I think, between how you
19 choose to price and how you should choose to think about
20 excessive pricing, recognising that including those cost
21 efficiencies from before is beneficial to the company
22 under investigation.

23 THE PRESIDENT: Thank you very much.

24 I am very sorry, Ms Stratford. I have taken up too
25 much of your time.

1 MS STRATFORD: Thank you, sir. I can see the time.

2 THE PRESIDENT: Do you want to finish your line or are you
3 moving on to a new topic?

4 MS STRATFORD: I think it is probably not fair on everyone,
5 including the shorthand writer. Maybe I just should
6 explain, I was about to come to this mysterious large
7 document, and so maybe just in case you were puzzled,
8 I am about to come to this, so I had hoped to cover it
9 before lunch, but I will explain that now.

10 It is just a version, a revised version of the
11 document that Mr Bailey took Dr De Coninck to, so I will
12 come to that immediately after the short adjournment if
13 I may.

14 THE PRESIDENT: No, that would be very helpful,
15 Ms Stratford.

16 No pressure at all because you are proceeding with
17 Mr Harman at a nicely brisk rate of knots, but how are
18 you doing on time?

19 MS STRATFORD: I would say I am doing decently, not
20 brilliantly, but decently, and I am mindful we have
21 a bit of leeway into Wednesday morning if we need it.
22 I stress I hope we will not, but --

23 THE PRESIDENT: That is absolutely fine. I suspect we will
24 need Wednesday given the Tribunal's likelihood of having
25 questions.

1 Mr Bailey, you are taking a sweeper role in this
2 case, is that right?

3 MR BREALEY: Yes, I am a sweeper, yes. At the moment on the
4 bench.

5 THE PRESIDENT: I meant in the footballing sense, not in any
6 other sense.

7 MS STRATFORD: I am sorry, I should have said, Mr Brealey
8 and I have discussed that, and of course he will
9 indicate if he has some questions, but we are not
10 envisaging that will take -- he said he is not
11 envisaging that would take much time.

12 THE PRESIDENT: That is no surprise given the cases you are
13 each having to deal with. Well, thank you very much.
14 We will resume at 2.00.

15 (1.08 pm)

16 (The short adjournment)

17 (2.00 pm)

18 (Proceedings delayed)

19 (2.05 pm)

20 THE PRESIDENT: Good afternoon, Mr Harman.

21 Ms Stratford.

22 MS STRATFORD: Before lunch I was just moving on from the
23 debate about whether ROCE is the right metric. I am
24 coming now to look at the ROCE rate that you have
25 attributed to Flynn. If you recall, I was saying I was

1 going to use this simplified example.

2 Let us imagine a company such as Flynn gets all of
3 its capital from bank loans rather than through equity,
4 and the bank charges a simple interest rate of 10%
5 per annum. It is going to be really a very simple
6 example, I promise, so I doubt you need to make notes,
7 but in this very simple example, the company's weighted
8 average cost of capital, ie its WACC, is 10%; correct?

9 A. Yes.

10 Q. Your theory in a nutshell is that the company's
11 reasonable rate of return is the return which it needs
12 to service that capital, ie 10%?

13 A. It is not my theory, it is mainstream corporate finance
14 theory.

15 Q. Okay, including your theory for this case, the theory
16 you have advanced in this case. So if we imagine that
17 a company needs capital of £1 million per year to supply
18 a product and borrows that amount from the bank, it
19 would need to earn a return of £100,000 in order to
20 service that capital, and that is your reasonable rate
21 of return for the company, ie that is the plus in its
22 cost plus.

23 A. Yes.

24 Q. Thank you. So this is where we come to the spreadsheet
25 that I have been trailing.

1 THE PRESIDENT: Ms Stratford, just so that I understand your
2 example, capital of £1 million per year is defined how?
3 What is your meaning or understanding of capital? It
4 excludes labour costs, does it?

5 MS STRATFORD: I am not sure it matters for purposes of this
6 example.

7 THE PRESIDENT: Okay, right.

8 MS STRATFORD: All I was envisaging, well, subject to what
9 Mr Pascoe is about to tell me, I was envisaging all of
10 it is capital needs.

11 THE PRESIDENT: Well, do not answer on the hoof, I think it
12 may matter for me, so it would be useful to know what in
13 this example you are defining capital as.

14 MS STRATFORD: And specifically your question is about
15 labour costs and the value --

16 THE PRESIDENT: I mean, start with the definition and then
17 we can work out from there what is included and what is
18 excluded.

19 MS STRATFORD: As usual, Mr Pascoe has made a very good
20 point. The reason I am looking at this at the moment --
21 and this is what we are about to come to in the
22 spreadsheet -- obviously these are the CMA's -- this is
23 on the CMA's assumed version of the world. So the
24 capital we are looking at here on this spreadsheet is
25 working capital. I do not know if that is a sufficient

1 answer for present purposes.

2 THE PRESIDENT: Well, working capital is the money required
3 to enable an established business to carry on trading.

4 MS STRATFORD: Yes.

5 THE PRESIDENT: Would that be a definition that you are
6 happy with?

7 MS STRATFORD: Yes, I think so, yes.

8 I am coming to this spreadsheet and we can see there
9 at, for example, line 60, capital costs.

10 So all we have done, just to be clear, this is the
11 same spreadsheet as I mentioned that the CMA submitted
12 to the Tribunal originally before the trial and then
13 Mr Bailey took Dr De Coninck through it to some extent,
14 and the only additional information that we have now
15 inserted into this is what is highlighted in yellow, and
16 essentially what we have done is to add in the CMA's
17 calculation of Flynn's capital costs and its reasonable
18 rate of return and in practice for Flynn, as I was
19 exploring before the short adjournment, working capital
20 or the capital that the CMA has been prepared to take
21 into account is its stock and net debtors. That is what
22 it is comprised of here.

23 So for example in line 60, 59, 60, where it says
24 capital costs:

25 "CMA's calculation of Flynn's capital costs."

1 Then there are two little stars and that refers you
2 down to the source, various working spreadsheets and
3 certainly if necessary we can delve into those, but
4 I think the answer I have just given may be sufficient
5 for present purposes.

6 So, Mr Harman, I do not think you will dispute any
7 of these figures since they are taken from the CMA's own
8 spreadsheet. Can we at least just agree to work with
9 them for now?

10 A. Yes.

11 Q. Thank you. Again, I do not think this will be
12 controversial, but you can see that the CMA's cost plus
13 figure -- so that is around row 75 -- do you see that?

14 A. Yes.

15 Q. The lowest of the yellow highlighted rows, that is
16 identical to its total cost figure at row 66.

17 A. Yes.

18 Q. So this is pretty basic, you might well say to me. All
19 this is showing in spreadsheet form is the point you
20 make in your report that your method is designed to
21 ensure that Flynn's cost plus is adequate to cover what
22 you sometimes refer to as its economic costs?

23 A. It is sufficient to reward them for their invested
24 capital at a market rate of return adjusted for risk.

25 Q. Let us come back to that.

1 The fundamentals of this analysis, that a company's
2 return on capital should equal its cost of capital, are
3 basically the same as the ROCE analysis that you applied
4 as a cross-check in the last appeal.

5 That is right, is it not? So in the first appeal
6 you were using it as a cross-check. As we discussed
7 this morning on the basis of the information you had
8 then, it has become now the primary benchmark.

9 A. I used it in the first report as a cross-check. At the
10 time it was unclear whether there was additional assets
11 over and above working capital. So initially it was
12 a cross-check absent doing further analysis on the level
13 of capital employed. In this case, the CMA has
14 investigated the likely value of intangibles and other
15 notional capital and believes that for phenytoin
16 capsules, that value is likely to be immaterial.

17 So on that basis, it is a return based on their
18 working capital, save to say that there were a number of
19 cross-checks that are then done, one of them being to
20 triple the implied level of capital. The outcome of
21 that is that the results are not sensitive such that you
22 could increase the capital employed even further without
23 leading to a different answer.

24 Q. Yes, well we dealt with that already this morning, but
25 maybe let us look at what you said in your second

1 report, if we can, {XE1/14/42}.

2 This was in your second report for the first appeal
3 at paragraph 4.38, and you said there in the middle of
4 that paragraph:

5 "Put simply, a firm should only invest if an
6 opportunity receives a return above its minimum cost of
7 capital. Finance theory [and I stress] normally sets
8 [the] minimum at the weighted average cost of
9 capital ..."

10 So in short, your previous ROCE analysis was based
11 on finance theory which you say dictates that
12 a company's return on capital should over time converge
13 with its cost of capital, over time.

14 A. Well, I would say that it is premised on finance theory,
15 it is mainstream economic theory. It is used by
16 competition analysts, regulators, valuation experts. It
17 is what the return is required on the marketplace. That
18 is why it was used in *Lio, Hydro: Aspen* also says this
19 is the return that companies expect over time, it is the
20 same thing that is said by the UFT, the OECD.

21 The term "minimum" here reflects that if I have an
22 investment decision I am not going to accept something
23 that is lower than the average return adjusted for risk,
24 that is where minimum comes in, but the reality is,
25 having made the investment across all forms of

1 competition in the marketplace, the average is still the
2 weighted average cost of capital. That is the outcome.

3 It is then possible for companies to earn more or
4 less than that in ex post terms, that could be for
5 temporal reasons, it could be for greater efficiency, it
6 could be for differentiation, for example, but over the
7 long term, the majority of economic models, be it
8 perfect competition, monopolistic competition which is
9 a fusion between monopoly and perfect competition, many
10 buyers, but there is differentiation, Bertand
11 competition which is duopoly. The theory says that over
12 the long term, in all of those models, one would expect
13 a company to earn a reasonable rate of return that is
14 given by the outcome of mainstream corporate finance
15 theory, which is based on real market returns.

16 Q. Let us look at what the Tribunal made of your ROCE
17 analysis last time. So if we could go -- this is in the
18 original judgment, and we have already looked at this,
19 but just to go back to it at {XN1/2/105}.

20 We looked this morning at these paragraphs, but
21 I just want to remind you of the key passages. Some of
22 them relate to the CMA's ROS benchmark as we saw, but as
23 we will see, they are relevant because the same
24 criticisms are repeated in relation to your ROCE
25 analysis.

1 So starting at 318, the Tribunal says it found the
2 CMA's approach to the reasonable rate of return
3 unconvincing because it -- I am quoting:

4 "... it is clear that the CMA's approach owes more
5 to a theoretical concept of idealised or near perfect
6 competition, than to the real world (where normal,
7 effective competition is the most that should be
8 expected). It has on the whole avoided making
9 comparisons with other products or companies ..."

10 So the Tribunal's first criticism is that your and
11 the CMA's analysis was theoretical rather than
12 empirical. Is that a fair reading of this paragraph?

13 A. It is a fair reading of the paragraph, but, as I have
14 just explained, the outcome of the ROCE model is not one
15 of perfect competition, it spans many forms of
16 competition, and, as I said, this was a concept that was
17 accepted in *Lio* and in *Hydro*.

18 So at the time it was clearly the Tribunal's view,
19 but I --

20 Q. Are you saying it is wrong in paragraph 318?

21 A. I am saying that the outcome of a weighted average cost
22 of capital is not to model perfect competition, and that
23 is something that I said during cross-examination during
24 the first Decision.

25 THE PRESIDENT: Well, Mr Harman, I think the criticism is

1 a little broader in 318. What it is saying is that your
2 analysis is just too theoretical.

3 Now, it may be that it is too theoretical because
4 they have wrongly said it is based on idealised or near
5 perfect competition, you would not accept that.

6 A. Correct.

7 THE PRESIDENT: But would you say that the Tribunal has it
8 wrong in a more fundamental way in that it is not
9 a theoretical concept at all?

10 A. Well, I mean, pretty much everything in economics has
11 some theory behind it, as does accounting. I mean,
12 things have theory behind it. The thing that I am
13 drawing the distinction between, is it theorised ie in
14 the sense it has no application and nobody believes it,
15 because there are lots of theories out there that,
16 you know, people do not use, or is it something that is
17 the mainstream and is actually reflecting what is
18 happening in the real world and hence what market actors
19 are doing in the real world, and I think that the
20 weighted average cost of capital, whilst it has a theory
21 that sits behind it, it is based on empirical analysis
22 and it is used extremely widely in the marketplace.

23 THE PRESIDENT: Fair enough. I think then you are
24 disagreeing, but let me explain why I say that. It is
25 clear that the CMA's approach owes more to a theoretical

1 concept and that it is in contradistinction to the real
2 world, so they are saying theoretical on one side, real
3 world on the other, this is theoretical, and we do not
4 like it.

5 Do you agree or do you disagree?

6 A. I do not want to read into actually what they meant, but
7 I will take your word that that is a possibility.

8 THE PRESIDENT: Well, let us say that that is what I think
9 they meant.

10 A. Yes, okay, then that is perhaps what they thought. All
11 I am saying is that when you get to *Lio* and to *Hydro*,
12 they recognise that the concept is meaningful, and it is
13 certainly meaningful in *Lio*, it says, in the context of
14 thinking about pricing in generics.

15 So I fully accept that that was what the tribunal
16 said at an earlier date. The tribunal has clearly said
17 something that is different at a later date, and that is
18 also echoed in the *Aspen* judgment as well.

19 MS STRATFORD: Thank you.

20 If we could move on to paragraph 320, again, we
21 looked at this earlier, but the tribunal says:

22 "Mr Harman accepted in cross-examination that this
23 exercise went no further than identifying the
24 theoretical, from a finance theory perspective, economic
25 profit, namely the return above which a company would

1 enter [the] market and below which it would consider
2 exit, without recognising any gap between the two."

3 That needs to be read with paragraph 322 for present
4 purposes, which specifically addresses your ROCE
5 analysis, and the tribunal explains there that you
6 viewed this as an informative cross-check giving an
7 indication of the minimum return investors would require
8 on invested capital, and then again moving on to 323 the
9 tribunal explains what your ROCE analysis involved.

10 THE PRESIDENT: Are we able to move the page, sorry?

11 MS STRATFORD: Sorry. Can you go over the page, please
12 {XN1/2/106}. Thank you.

13 323, that is where the tribunal -- again, you read
14 this this morning, I am happy to give you more time if
15 you want it.

16 A. No, no, that is fine.

17 Q. The tribunal says:

18 "We do not think this additional work carried out by
19 Mr Harman added greatly to the overall picture. Finding
20 a minimum return on capital for investors was merely
21 another manifestation of using a Cost Plus approach to
22 calculate the excess, and was subject to the same basic
23 error as with finding a reasonable return on sales (of
24 not focusing, as a start point, on the prices that would
25 have pertained in circumstances of normal and

1 sufficiently effective competition)."

2 So the tribunal made the same criticism of you, of
3 your -- sorry, not of you, but of your ROCE analysis, as
4 it did of your ROS analysis, that it was based on theory
5 rather than actual data from the market, and that it
6 focused on idealised rather than normal competition.

7 Now, as I understand it, you have not sought to
8 change your approach in response to these criticisms,
9 and we touched on that a little bit this morning, so
10 your approach is still based at its origin on finance
11 theory?

12 A. Yes, I mean, to give some context to this, we must
13 recall at the time when I was writing this in terms of
14 the return on capital employed, it was a cross-check
15 because we did not know if there was sufficient
16 allowance for intangibles, so that is why I was
17 referring to it as minimum.

18 I do understand that the appeal court suggested that
19 cost plus was an informative benchmark. This was, as
20 I understand it -- and again, I am not a legal expert so
21 I do not want to trespass into the legal
22 interpretation -- that this was a finding that one
23 should not use cost plus as a benchmark but one should
24 look at prices, which is what I have said, when I have
25 used the return on capital employed approach, again, it

1 is an instruction to review the CMA's analysis which is
2 consistent with the outcomes in *Liothyronine* and
3 *Hydrocortisone*.

4 Q. Well, I do not think it is going to be fruitful if we
5 start debating the law, and I do not want to do that.
6 At 323, the tribunal was saying:

7 "Finding a minimum return on capital for investors
8 was merely another manifestation of using a Cost Plus
9 approach to calculate the excess, and was subject to the
10 same basic error ..."

11 Now, as I say, I do not think it is useful if we
12 start debating the law. There was a question about the
13 hypothetical benchmark price that went to the
14 Court of Appeal, but what the Tribunal was addressing
15 here was your evidence on a hypothetical benchmark
16 margin, not price, and I think we all agree that
17 a benchmark margin is needed because it is the plus in
18 the cost plus analysis?

19 A. Correct.

20 Q. I think we also just agreed that the benchmark margin
21 should be aimed at normal rather than perfect
22 competition?

23 A. But I have just said that the outcome of the capital
24 asset pricing model is not perfect competition; it is
25 all forms of competition in the marketplace.

1 Q. Thank you. So as you say in your third report,
2 actually, I can show you the passage if you want, you
3 say the calculation of the reasonable return is based on
4 economic finance and valuation theory.

5 Do you want to look at it?

6 A. It comes from corporate finance and that corporate
7 finance theory is pervasive across so many things that
8 we do in business, in economics, in regulatory affairs,
9 in the setting of transfer prices, thinking about patent
10 prices and so on.

11 It started with a theory to say -- started by Miller
12 and Modigliani, amongst others, to say: how do we think
13 about returns in the real world? Obviously there was
14 some highly theoretical models at the beginning. They
15 have been refined over time. Extensions to those models
16 have been formulated, they have been disproved, and the
17 one enduring corporate finance theory that is applied in
18 practice is the weighted average cost of capital.

19 Q. I am just putting the point that at its root -- I think
20 we are agreeing on this -- your approach is still based
21 on finance theory. So you have not said in your
22 report: I have seen the tribunal's criticism that my
23 previous benchmark was based on theory rather than real
24 world evidence, I and the CMA have gone away, obtained
25 new real world evidence about actual returns earned on

1 the market and here is my new approach.

2 So there is no new -- again, it is a point that we
3 were discussing earlier, but there is no new evidence on
4 what returns pharmaceutical companies actually make in
5 the real world.

6 A. Well, that is not strictly true. I mean, firstly --

7 Q. Can you show us in your report?

8 A. Yes, well, firstly to address the first point, I clearly
9 state in -- clearly address in my third report that cost
10 plus does not equate to outcomes under perfect
11 competition, so that point has been addressed.

12 Q. That was not what I was putting to you, with respect,
13 but, yes, fine. Carry on.

14 A. The second point is additional analysis has been done
15 because I have done a bottom-up calculation of the
16 weighted average cost of capital, cross-checked that
17 with other costs of capital that are used in the real
18 world as calculated by KPMG, as used by Jefferies who
19 was performing an analysis of Flynn and they are, they
20 claim, the world leading investment bank in
21 pharmaceuticals.

22 So a lot of work has been done on the cost of
23 capital and sensitivities around it, and the CMA did
24 a significant amount of work considering whether there
25 were intangible values that should be included, and then

1 thinking through a number of cross-checks to ensure that
2 the answers were correct. So additional analysis has
3 been done.

4 Q. I did not say no additional analysis had been done.
5 I am coming on, right now, to all of that, because you
6 say at various points in your report that your analysis
7 is intended to reflect actual returns earned in the
8 industry.

9 A. That is true.

10 Q. So I want to deal with that and look at what you are
11 actually referring to. So could we start by looking at
12 the parts of your report that make this point and start
13 at {XE1/15/13} at paragraph 2.2.14.

14 You are responding here to the criticism that your
15 ROCE theory is based on perfect competition --

16 A. Correct.

17 Q. -- as you just said, and you deny that, and you say:

18 "Rather, as implemented by the CMA, the cost of
19 capital reflects average total market returns [I stress
20 that word] (adjusted for risk)..."

21 A. Adjusted for the risk of pharmaceutical companies.

22 Q. So on one reading you are saying that average market
23 returns are actually equal to companies' costs of
24 capital. That would be an empirical statement, would it
25 not?

1 A. That is an empirical statement.

2 Q. Thank you. Then if we can look at page {XE1/15/30} of
3 this same tab, 3.4.17, halfway down here, halfway
4 through that, you say:
5 " ... as implemented by the CMA, the cost of capital
6 reflects average total returns earned across
7 markets ..."

8 Again, that is presented as an empirical statement,
9 is it not?

10 A. Correct.

11 Q. Thank you. Now, I just want to be very clear what has
12 and has not been the subject of empirical investigation
13 by you and by the CMA.

14 A. Okay.

15 Q. You and the CMA have done some empirical investigation
16 into the cost of capital in the industry, have you not?

17 A. Yes.

18 Q. So if we can look at that, it is in your third report
19 again at page {XE1/15/69} of the same tab,
20 paragraph 5.5.2, and I put down a marker, I am not
21 accepting that this is good empirical investigation,
22 just that these do at least purport to be figures drawn
23 from the real world.

24 THE PRESIDENT: Ms Stratford, just to be clear, we have
25 heard a number of times that Mr Harman is saying that in

1 some cases he is taking the work that has been done by
2 the CMA and is adopting it but not necessarily doing his
3 own work either to validate it or to redo it.

4 I wonder whether we ought to be clear whether you
5 are in fact saying that this is empirical investigation
6 by the CMA and by Mr Harman or whether it is work done
7 by the CMA which Mr Harman is, as it were, looking at
8 and applying his own judgment as a reviewing expert to
9 these matters?

10 MS STRATFORD: We are in a slightly unusual situation here
11 because obviously Mr Harman has been retained from the
12 outset of the first appeal, so it is a relatively
13 unusual situation. He was already on board.

14 THE PRESIDENT: I accept that remission makes this a more
15 difficult thing, but looking simply at 5.5.2 -- this is
16 your third report on screen now -- you are saying the
17 CMA had regard to the following benchmarks, and then
18 they are there set out.

19 I mean, are you standing, as it were, four square
20 with the CMA on this, or are you saying: well, I see
21 what the CMA have had regard to, and I will look at that
22 and I will use those findings or those assessments as
23 part of my work in order to say that the workings of the
24 CMA in the second Decision meet with my agreement in
25 terms of a defensible outcome?

1 A. So obviously I have had regard in 5.5.2 to the work that
2 the CMA has done, and I have obviously gone back to the
3 sources, I have familiarised myself with that, seen the
4 context in which they are being applied, and then over
5 and above that I have done two forms of analysis, or at
6 least two forms of analysis. One is that I have
7 calculated the bottom-up weighted average cost of
8 capital, I also did that in *Liothyronine*. Then
9 secondly, as another indicator of how pharmaceutical
10 companies think about their rates of return, is that in
11 their financial accounts they have to think on an annual
12 basis whether they need to impair the value of their
13 investments, ie the value of those investments has
14 fallen, so I have actually had a look at what
15 accountants use as the rate of return for performing
16 that analysis.

17 So I have done two additional pieces, and then
18 I have compared that analysis to the CMA's in concluding
19 whether I think that the weighted average cost of
20 capital is a reasonable basis.

21 THE PRESIDENT: Looking at (III) where it says:

22 "The CMA reviewed the WACC of various pharmaceutical
23 companies, which according to publicly available data
24 sits within a range of 8% to 12%..."

25 With an average of 10.

1 Now, did you redo the exercise so that you could see
2 what publicly available data there was and whether it
3 did indeed sit within a range of 8% to 12%, or did you
4 actually do the work for the CMA at the time --

5 A. No.

6 THE PRESIDENT: -- or have you simply looked at what they
7 have done and said: well, this seems reasonable to me?

8 A. So I did not redo each of these pieces of analyses, so
9 I did not go back and say had KPMG done the analysis
10 right, but I take some comfort that if KPMG had done the
11 analysis and then there is other sources and they are
12 all in the same ballpark, then I take some comfort from
13 that, and then I do my own analysis to confirm the CMA's
14 conclusions.

15 THE PRESIDENT: You see, Mr Harman, the reason why I am
16 pressing you on this is because at some point we are
17 going to have to work out exactly what you are and what
18 you are not saying, and I do not want to be -- when that
19 time comes -- reading into these things more than you
20 are in fact saying.

21 A. Yes.

22 THE PRESIDENT: That is why I am picking up Ms Stratford on
23 her tying you and the CMA into these things.

24 A. Yes.

25 THE PRESIDENT: I am very happy to proceed on whichever

1 basis you prefer, namely that you are hand in glove with
2 the CMA on this, that you absolutely will go to the wall
3 on these points because they are your opinion as well as
4 the CMA's findings, or that you are taking the CMA's
5 findings and looking at them and seeing whether they do
6 not disclose, you know, a point that you disagree with?

7 A. Yes, I think that it is mostly the latter, apart from
8 where I have done an independent piece of analysis to
9 cross-check the CMA's overall contentions.

10 THE PRESIDENT: Well, thank you. That is very helpful,
11 Mr Harman. I am very grateful.

12 MS STRATFORD: Thank you.

13 What I was particularly focusing on here and wanting
14 to show is the extent of the empirical investigation
15 into the cost of capital in the industry that the CMA --
16 let us for the moment, with respect, leave you out of
17 it, but let us just say that the CMA has done, and to be
18 complete on that could we just look at {XA1/1/186} in
19 the Remittal Decision. This is something Mr Holmes
20 referred to in his opening submissions. It is
21 footnote 839 on that page which refers to publicly
22 available cost of capital rates for a range of large
23 firms like AstraZeneca and GSK.

24 So these are all WACC rates, are they not?

25 A. Yes.

- 1 Q. Thank you. They relate to the seller's cost of capital?
- 2 A. They relate to the weighted average cost of capital on
3 a pre-tax basis.
- 4 Q. Yes. So going back to my simplified example, these
5 rates are the equivalent to the 10% interest rate that
6 the bank charges to the company?
- 7 A. Yes, but the difference being that the majority of these
8 are more equity invested than debt invested, so these
9 results are showing you more towards the cost of equity,
10 external investors' investments into the company.
- 11 Q. You are focusing particularly on the footnote because
12 that is what I have just showed you.
- 13 A. Yes.
- 14 Q. But we are also looking at what the CMA actually said in
15 the other passage of its -- sorry, what you said in your
16 report, referring to what the CMA had said in its
17 Decision.
- 18 A. I think (inaudible).
- 19 Q. Yes. The point I want to put to you is that none of
20 these figures represent the actual returns earned on
21 capital by a company selling medicines. It is the price
22 of capital charged, not the return on capital.
- 23 A. This is the long-term expected return required by these
24 companies. It is true that they could earn less, they
25 could earn more, but on average, this is their expected

- 1 rate of return.
- 2 Q. So it is what is required by either the bank or, in your
3 equity example, by the investors of the company?
- 4 A. Effectively by the owners of the business, yes. Return
5 that owners require from providing capital for
6 a business to run.
- 7 Q. My point is that you have not identified any empirical
8 evidence that any pharmaceutical companies' returns
9 actually or normally are equal to their cost of capital
10 to these returns?
- 11 A. I think that the --
- 12 Q. You have a theory it should be so, and it should over
13 time be so, but that is not with respect the same as
14 saying that it is so.
- 15 A. In the world in which I operate, it is generally assumed
16 that that is the average return that companies will
17 earn. Companies may wish to earn more, but on average
18 they do not.
- 19 Q. That is you as a valuation expert, that is your
20 experience?
- 21 A. Be it valuation expert, economist.
- 22 Q. Okay, let us move on to the other criticism levelled
23 against you by the Tribunal which is that your analysis
24 is aimed at identifying the minimum return for a company
25 and, therefore, is based on what it called idealised

1 competition.

2 Maybe just before I ask my questions on this point,
3 do you actually dispute that your analysis is aimed at
4 identifying the minimum possible return for a company?

5 A. No, I think that it is identifying an average that you
6 would expect under conditions of normal and sufficiently
7 effective competition because the cost of capital looks
8 at all returns in the marketplace. Now, there is no
9 perfect competition in the marketplace, so it is not
10 going to actually measure the return under perfect
11 competition, and if you actually look at the theory
12 behind perfect competition, it does not explain what the
13 return is there.

14 So what I am positing is that the return that we
15 observe from the capital asset pricing model reflects
16 outcomes on average in competitive markets.

17 Q. Okay, can we look, then, please, at again your third
18 report {XE1/15/22} and I want to look at
19 paragraphs 3.2.1 and 3.2.2, please.

20 You say there that:

21 "To meet profit expectations, a firm must generate
22 sufficient income to cover economic costs."

23 A. Sorry, my page has not moved on.

24 Q. Oh, I am sorry. {XE1/15/22}. Do you see there 3.2.1?

25 "To meet profit expectations, a firm must generate

1 sufficient income to cover economic costs."

2 You go on to say that includes a return of the
3 capital invested in the business and a return on the
4 capital invested, and then if I am not going too fast at
5 3.2.2 you say:

6 "The CMA's Cost Plus is consistent with the
7 definition of economic cost above."

8 So again, returning to my simple example, you are
9 saying that in order to meet its economic costs,
10 a business not only needs to be earning enough to repay
11 the principal loan, the loan that in this example we
12 imagine is borrowed from the bank, but also to pay the
13 10% interest rate charged by the bank?

14 A. Yes.

15 Q. A company could not be expected to sell a product at
16 a price that was lower than that needed to cover its
17 economic costs?

18 A. Would you say that again?

19 Q. Sorry, a company cannot be expected to sell a product at
20 a price that is lower than its economic costs, otherwise
21 that would involve operating at a loss.

22 A. Well, that is what firms hope to earn. As the
23 distribution of returns in the market is going to have
24 some returns that are lower than the average and some
25 that are higher than the average then it follows that

1 some firms, many firms, will earn returns below their
2 expected cost of capital.

3 Now, over time, if they have a shareholder, they may
4 choose not to pay them dividends, and that may give them
5 some time to recover their economic profitability, but
6 in the long term if they are unable to meet shareholder
7 demands, then that will lead to financial difficulties
8 for the company.

9 Q. So I think this is right, that the implication of what
10 you are saying is that the CMA's plus is intended to
11 calculate the return rate at which a company breaks
12 even?

13 A. I think break even is the wrong term. I think that the
14 cost of capital gives them their expected return, and it
15 is a return that they would, in real markets, be happy
16 to earn because on average that is what they earn. Of
17 course -- and that is for the purpose of the excess
18 limb. Under the second limb you can ask the question is
19 it reasonable for the firm to earn more? So we are not
20 saying that the excess limb is --

21 Q. I am focusing on the excess limb at the moment.

22 A. At the excess limb we are saying that provides
23 a reasonable -- a potential reasonable benchmark for
24 competition because it is across all forms of
25 competition, so it is a good starting point to

1 understanding the returns because that is what on
2 average firms actually earn adjusted for risk.

3 Q. Could we go on, please, to -- still in this tab in your
4 third report, page {XE1/15/24}, please. I want to look
5 at 3.2.11, and you say here that in your view:

6 "The Excessive Limb considers the difference between
7 a firm's revenues and economic cost."

8 Read the rest of the paragraph if you want, but you
9 then express your theory as a formula: revenues less
10 economic cost is greater than zero. You say in the next
11 paragraph that:

12 "This analysis allows the authority to calculate the
13 level of pure excess profits ..."

14 So the plus in the CMA's cost plus is not a plus at
15 all, is it? It is a device for measuring the firm's
16 costs, what you refer to as economic costs. So in my
17 simple example the company is paying its 10% interest
18 rate to the bank but keeping nothing for itself, and
19 indeed, that is exactly what we saw on the spreadsheet
20 that we looked at just after lunch, that those two
21 figures are identical, there is nothing else.

22 A. No, the economic cost is giving you a benchmark for the
23 prices that you have to charge to be able to earn
24 a sufficient profit to be able to repay the capital that
25 has been provided by lenders to the business. The

1 business itself can retain money, but ultimately has to
2 pay that back to the shareholder at some point in time.
3 The business itself is not earning a profit that it
4 ultimately gets to keep for itself, it has to pay that
5 money back to the owners of the business.

6 So I explain in my third report, and it is a point
7 that the tribunal considered on *Liothyronine*, that the
8 plus is properly provided by the cost of capital because
9 it provides a benchmark for the profits that you would
10 expect under normal and sufficiently effective
11 competition on average. You may be able to earn more,
12 but then you would have to think about the reasons why
13 you were earning more than that in the context of
14 a competitive market.

15 Q. That is why, if we could go back to page {XE1/15/11} of
16 this tab at paragraph 2.2.4 of your report you refer to
17 cost plus as a filtering mechanism that might provide an
18 early indication that prices are "unlikely to be
19 abusive", or "might [quote] indicate the prices are
20 excessive."

21 The reason I suggest you are expressing yourself in
22 qualified terms is because the fact that a company is
23 earning more than its costs does not in itself suggest
24 that it is guilty of abusive conduct?

25 A. Well, I mean, I am quite clear in the reports that in

1 competitive markets, firms may be able to earn returns
2 above the benchmark if there is objective justifications
3 for that, which is considered at the second limb.

4 Q. But the benchmark is a cost benchmark, it is economic
5 costs.

6 A. Economic cost, I mean, because it has the word "cost" in
7 it does not mean that it is a cost in the way in which
8 you are putting forward. It is a cost to the business
9 in the sense that it has to be paid to owners, but it is
10 also -- it tells you something about the profits you
11 have to earn to be able to pay that return to the owners
12 of the business.

13 Q. Or to the bank as interest?

14 A. To the owners of the business.

15 Q. Well, can we go now, please, back to the transcript,
16 Day 8 of the transcript starting at page 20, line 24
17 {Day8LH1/20:24}. You seem to be saying there that if
18 a company's average prices are above cost, then "it
19 would say there is an excess". So it seems that your
20 evidence really is that an excess arises, and this is
21 different from what you have been saying today, but it
22 is probably important to be clear about this. There you
23 seem to be saying an excess is proven as soon as
24 a company prices above costs, and it is then for the
25 undertaking to justify charging higher prices, and that

1 is the important point.

2 A. No, I guess it depends on -- it is -- it can be
3 confusing, I think, to regard the difference between
4 cost plus and price as the excess when you are thinking
5 about setting -- determining excessive prices. It is
6 quite clear what I am saying is that if there is a gap
7 then that becomes a point when you would then think
8 about whether prices have an objective justification.
9 I am not saying that £1 above the cost plus is abusive.
10 All I am merely saying is that there is an excess that
11 needs to be accounted for, and there may be justifiable
12 reasons for that or there may not.

13 THE PRESIDENT: So are you saying that an excess does not
14 equate to excessive in the *United Brands* sense?

15 A. It does not equate to being an abuse of dominance and
16 unfair.

17 THE PRESIDENT: Right, so it is excessive?

18 A. It turns out to be an excessive price, but I guess we
19 are quibbling on the terminology of what the excess is.
20 I am not saying that as soon as you are above cost plus
21 that it is an abuse.

22 THE PRESIDENT: Right, look, there is going to be a problem
23 here about what the law actually is, and you must not
24 get into that, but let us, given Ms Stratford is happy
25 with this, part it in the way in the following way.

1 We have a two-stage test under *United Brands*, and
2 I am sure we will be arguing about exactly what that
3 means in due course. Stage one is: is the price above
4 cost excessive.

5 A. Yes.

6 THE PRESIDENT: The second stage is assuming, or given that
7 it is excessive, is it unfair.

8 A. Yes.

9 THE PRESIDENT: And if those two criteria are met, then,
10 bingo, we have an infringement of competition law.

11 A. Correct.

12 THE PRESIDENT: Right.

13 A. I think yes, I am on the same --

14 THE PRESIDENT: We are on the same page?

15 A. We are, sir.

16 THE PRESIDENT: Excellent.

17 Now, as I understand it, you are speaking less to
18 unfair and more to excessive.

19 A. I am not talking about unfair at all.

20 THE PRESIDENT: Excellent, so we can --

21 A. Only when we were traversing in the hot-tub I may have
22 provided my views on it.

23 THE PRESIDENT: You certainly helped there, but for purposes
24 of today, if Ms Stratford asks you about unfair you are
25 not really very interested in responding --

1 A. That is correct.

2 THE PRESIDENT: -- and we will see where we go.

3 So are you defining excessive as something that is
4 simply above your cost plus, in other words, where the
5 gap between cost and price is greater than cost plus
6 that you have a big tick in the excessive box, or is it
7 more nuanced than that?

8 A. I think that it could be more nuanced.

9 THE PRESIDENT: Right.

10 A. I mean, if you were 1% over, you might say no.

11 THE PRESIDENT: So materially in excess?

12 A. I think materially is an important point, save here that
13 because of the very high input price it makes the excess
14 look less, and I think one has to have that in mind when
15 determining the level of excess.

16 THE PRESIDENT: Well, materially covers, as we all know,
17 a number of evils, but for purposes of Ms Stratford's
18 cross-examination, are you happy to say that anything
19 materially above cost plus is excessive?

20 A. Yes.

21 THE PRESIDENT: Thank you.

22 MS STRATFORD: Thank you.

23 Once you are in that territory, that danger zone --
24 I probably should not use that language, it is a bit
25 loaded, but the point is that the burden, in your view,

1 the burden shifts to the company to provide
2 a justification for its prices, and that is when we get
3 into the territory that you have not considered in
4 detail and is not your area of expertise for the purpose
5 of this appeal?

6 A. I do not know whose burden it is, but it is not mine.

7 Q. Okay. But I do put it to you that it is a rather
8 sweeping statement, not just for the pharmaceutical
9 industry but for all industries, that the moment you are
10 materially above your economic costs then excessive --
11 an abuse may be found depending on the unfairness
12 analysis?

13 A. I think at the end of the day that is a legal test.

14 Q. Okay. I am going to come now to *Liothyronine*. I think
15 you will probably be very happy about that, you have
16 mentioned it a few times. If we could go to
17 {XN2/28/52}, paragraph 144. As you have explained you
18 were the economic expert for the CMA in that case, were
19 you not?

20 A. Yes. Sorry, what is this? The judgment?

21 Q. This is the judgment in *Liothyronine*.

22 A. Okay.

23 Q. Again, as I think you have mentioned in passing already,
24 the CMA applied the same cost plus benchmark, ie a WACC
25 of 10% there, did it not?

- 1 A. As their base case, yes.
- 2 Q. Yes. At paragraph 144, we can see it recorded that you
3 agreed that "the economic logic underlying cost plus is
4 that the benchmark represents the prices at which
5 potential entrants would be indifferent between entering
6 the Liothyronine market or not doing so. [And then
7 this]. The benchmark calculates the point at which
8 entry would break even."
- 9 So you must agree that your ROCE benchmark, which is
10 the same analysis you put forward in Liothyronine, is
11 aimed at identifying the minimum return, in other words,
12 the return that a company must make to break even?
- 13 A. Well, to break even in --
- 14 Q. That is just the word it uses there.
- 15 A. Yes, but sufficient so that it earns a profit to the
16 providers of capital.
- 17 Q. Well, it pays back its interest in the simple bank
18 example or it provides --
- 19 A. It pays the owners their expected return. If they did
20 not earn -- if they did not expect to earn the return,
21 they would not make the investment, and on average that
22 is the return that they actually earn.
- 23 Q. Thank you. What I want to put to you is that is what
24 you were criticised for in the original CAT judgment,
25 and you have not done anything to rectify it. You can

- 1 now point to *Liothyronine*, perhaps --
- 2 A. Yes.
- 3 Q. -- and the debate you had there and I understand you to
4 be saying that matters have moved on, but you were
5 criticised, and part of what we have been exploring is
6 how you have responded to those criticisms or not
7 responded.
- 8 A. The cost plus approach, for which I was criticised, was
9 used in both *Liothyronine* and in *Hydrocortisone* and
10 referenced in *Aspen* as being a sensible approach for
11 determining a benchmark that would reflect conditions
12 under normal and sufficiently effective competition. So
13 my approach is mirroring the latest thinking on cost
14 plus.
- 15 Q. I think we will just agree to disagree on that. Just
16 a final question, if I may, on this. The tribunal also
17 criticised you, as you have seen, for basing your
18 analysis on idealised rather than normal competition.
19 The CMA's benchmark at that point, in the first
20 Decision, was a 6% ROS rate which you said in fact was
21 generous to Flynn. Your new benchmark of 10% ROCE can
22 be expressed mathematically as a ROS of just under 2%.
23 That is right, is it not?
- 24 A. Yes.
- 25 Q. Do you find it in any way counterintuitive that having

1 been criticised for basing your previous benchmark on
2 idealised competition, your revised rate of return has
3 decreased rather than increased?

4 A. No, I think idealised competition reflects -- again, my
5 interpretation of what idealised means is some
6 theoretical representation of a marketplace that it is
7 perfect competition, and I have explained that the
8 returns that have been determined by the CMA reflect
9 benchmarks in the real world and not idealised perfect
10 competition.

11 Q. Well, let us move on, then, to talk about the real
12 world. I am going to try one more time. Can you point
13 me to anywhere in your report where you or the CMA have
14 gone into the world and obtained empirical evidence
15 about the ROCE rate of return of a pharmaceutical
16 company?

17 A. Well, the WACC gives a --

18 Q. Not the WACC. Sorry, Mr Harman.

19 A. But the weighted average cost of capital is -- return on
20 capital employed is simply required return divided by
21 the asset base, therefore the WACC and the ROCE are
22 measuring the same things.

23 THE PRESIDENT: They are joined at the hip?

24 A. They are joined at the hip, and the way in which it is
25 estimated in the real world is by reference to market

1 returns.

2 MS STRATFORD: They should be joined at the hip in your
3 view?

4 A. They should be joined at the hip if the assets that are
5 contained in historical accounts are adjusted to reflect
6 assets in current value terms.

7 Without doing that analysis, you would find
8 differences because you are comparing revenues today or
9 profits today which are in nominal terms with asset
10 values in historical terms, and you will get high rates
11 of return that are reflecting changes in inflation over
12 time.

13 Q. As we saw when we looked at the relatively limited
14 amount of evidence and figures that were actually in the
15 Decision, including in that footnote, do you remember,
16 those are generalised figures for the most part, are
17 they not, looking across the industry?

18 A. Well, not all of them. The rate of return that is
19 expressed in the Jefferies report is the investment
20 bank's determination of a weighted average cost of
21 capital for Flynn.

22 Q. Let us look at that in a moment.

23 So let us just look at what happens if you do an
24 empirical investigation and go and look at what the ROCE
25 rates of pharmaceutical companies actually were, and

1 again, we looked at this very briefly this morning, you
2 may recall, in Mr Williams -- this is Williams 7 at
3 {XE2/7/12}, paragraph 42.

4 A. Yes.

5 Q. I can probably take this quite quickly because we
6 discussed it this morning, but I think it is probably
7 helpful to come to it again at this point in the
8 analysis.

9 These, as we see, are the ROCE rates for four out of
10 the five of Mr Williams' comparator companies, and just
11 taking these figures at face value for the moment, do
12 you agree that they suggest that your theory that
13 pharmaceutical companies should tend towards a 10% ROCE
14 might not reflect reality?

15 A. I am sorry, that is a -- you can ask me to assume
16 something, but it is not a sensible assumption,
17 because --

18 Q. Okay, you can say "no", that is fine.

19 A. -- because the accounts are reflecting the asset values
20 at the historical costs, and you have to think about
21 them in terms of replacement costs or their current
22 costs including inflation. If you do not adjust it for
23 inflation, all other things being equal, you will get
24 a high return on capital employed.

25 Q. Are you suggesting, for example, that Morningside pays

1 interest of 229% on its bank loans?

2 A. Well, no, because Mr --

3 Q. The obvious inference -- sorry to talk across you, but
4 the inference is that it is earning far in excess of its
5 cost of capital.

6 A. Well, firstly, it may be earning more than its cost of
7 capital because we have already said that firms can earn
8 more than their cost of capital if there are
9 justifications, putting to one side that I understand
10 that Morningside has been investigated for excessive
11 pricing.

12 The second point, and more important point, is that
13 if you do not adjust the asset values, the denominator
14 to their current cost, you will over-inflate the return
15 on capital employed. So you have to think about the
16 asset base to see whether they are properly constituted.

17 Q. These are the figures based on publicly available
18 accounts of the companies, and, as we discussed this
19 morning, you or the CMA could have done this exercise
20 for practically any pharmaceuticals company, could you
21 not?

22 A. No, it would be very difficult because you would have to
23 determine the value of the intangibles for each of these
24 companies, you would have to express that in current
25 cost terms, and you would have to unpick the assets,

1 inflate them to current cost terms, and I do not think
2 that it provides you anything above modern finance
3 theory that tells you the weighted average cost of
4 capital based on market returns.

5 Q. I take from that you do not think it would have been
6 useful to do that kind of check in order just to
7 sense-check whether your 10% ROCE debate rate was in the
8 right ballpark?

9 A. Well, I think if you had very detailed information you
10 could perform that type of analysis. What we know,
11 because we can look at Flynn's return on capital
12 employed in a little bit more detail, what we know there
13 is that Flynn -- Pfizer capsules had a return on capital
14 employed, actual return on capital employed of 278%, and
15 the average across all other products had a return on
16 capital employed of 22%.

17 Now, that is without considering the replacement
18 costs, assuming that replacement costs are higher, that
19 22% would be lower. But the cross-check that we can do
20 is by comparing phenytoin, 278% return on capital
21 employed to 22% for the other 13, that shows that
22 phenytoin capsules is an extreme outlier, and I think
23 I showed that in --

24 Q. So -- sorry, Mr Harman. I was going to say -- sorry,
25 I do not want to stop you, but I was going to say just

1 for the Tribunal those figures, certainly the 22%, are
2 not accepted, but I do not think it is going to be
3 productive, I do not think we need to debate that
4 between us now.

5 The point I am really putting to you is that even if
6 you did not think or do not think that the comparisons
7 or the ROCE calculations were perfect, some empirical
8 analysis is better than none. Do you accept that?

9 A. I agree that some empirical analysis, if you had the
10 information and you had it in -- and you understood
11 exactly what the data was, that would be helpful. I am
12 saying that Mr Williams' return on capital employed fall
13 short of providing a decent benchmark, a reasonable
14 benchmark, and, as I have just said, when you look at
15 Flynn's return on capital employed where the CMA had
16 more information, you can see the CMA -- the phenytoin
17 is an extreme outlier.

18 Now, you may say you disagree with some of the
19 formulations of the calculations, but the CMA put
20 forward what it was most reasonable and conservative in
21 allowing an asset base based on gross book values.

22 If we quibble as to the calculations, all of the
23 calculations in the return on capital employed change.
24 So the return on capital employed for phenytoin would
25 increase from 278, and, yes, the other products would

1 increase from 22%, but the relative difference between
2 the two would still be extremely different.

3 Q. I hear what you say. Let us not -- it is possibly not
4 very helpful for anyone including the Tribunal if we
5 jump around and we are going to come back to some
6 extent, time permitting, to questions of gross book
7 value and so on, but I wanted for fairness to
8 acknowledge -- this is Williams 7 at paragraph 44 --
9 that one of Mr Williams' five companies does have a ROCE
10 rate of 10%.

11 A. Yes.

12 Q. Mr Williams explains that that is a capital heavy
13 company because it had or has £279 million of intangible
14 assets on its balance sheet resulting from acquisitions.
15 It is also a publicly listed company. Do you agree that
16 those are relevant factors to take into account when
17 thinking about whether that is a useful comparator for
18 Flynn's ROCE rate?

19 A. I think that it actually supports my position because --
20 and that is -- what is the company?

21 Q. Alliance.

22 A. Is it Alliance? Effectively Alliance has gone out and
23 purchased products, and in the purchasing of those
24 products, it is able to compare what it paid for those
25 assets compared to its underlying asset base, and that

1 provides a market determination of the value of
2 goodwill.

3 Now, that goes on to Alliance's balance sheet, it is
4 something like £250 million.

5 Q. £279 million.

6 A. £279 million. That reflects to a certain degree the
7 value of goodwill. It could also suggest that they
8 overpaid for the assets, but that is the exact point
9 that, when you look at these other companies, because it
10 has not purchased other products, you do not have this
11 kind of external valuation of intangible assets, and so
12 you would have to go through a process of trying to
13 value those internal assets, if you wanted to do
14 a sensible return on capital employed calculation.

15 Q. Flynn does not have anything equivalent in terms of
16 a large amount of --

17 A. It has intangibles on the balance sheet which do not
18 pertain to phenytoin capsules. When you allocate those
19 to the other products, it gives rise to a return on
20 capital employed of about 22%, but some of that asset
21 value has been depreciated, some of it is old and needs
22 to be re-expressed into current cost terms.

23 Q. As you know, Dr De Coninck has calculated the ROCE rates
24 for Flynn's other products, and he finds that the vast
25 majority of them are flagged as excessive using your 10%

1 benchmark, and this is now coming on to some of the
2 territory you were just traversing.

3 Now, there is a lot of accounting detail in the
4 debate between you and Dr De Coninck, but what I am
5 going to try and do is cut through that by looking at
6 Dr De Coninck's chart. So this is {XE1/12/16}. It is
7 figure 1 of Dr De Coninck's seventh report, and in this
8 graph, Dr De Coninck plots the ROCE rates of Flynn's
9 other products on both accounting bases which have been
10 one of the subjects of your discussion. So he has
11 included both net book value and gross book value, and
12 taking this graph at face value, it shows a very wide
13 range of ROCE rates across different products, does it
14 not?

15 Just to orient ourselves, anything above the dotted
16 line at the top showing a ROCE of 200%, anything above
17 that line is higher than 200% but may be far above it,
18 it has just been done to make the graph more readable.

19 What I am really putting is if we applied your one
20 size fits all theory, that a pharmaceutical company's
21 return should, absent special justifications, equal an
22 industry-wide 10% cost of capital, most of Flynn's
23 prices are excessive, and it then bears the burden of
24 justifying why that is.

25 A. No, I mean, I disagree. I have explained in my third

1 report, and maybe it would be helpful if I can bring up
2 a different analysis of this just to make my point.

3 Q. I was going to come to that. Do you mind just -- well,
4 we can come to it immediately if you want. I think you
5 may find some of what you want at 4.8.14 at page 55.

6 A. If we go to page 55 first, yes.

7 Q. It is {XE1/15/55}. I am sorry, let me just see if this
8 helps, if I may. What I was going to say is that I do
9 not understand you to disagree with the calculations
10 behind Dr De Coninck's graph per se. You do not say he
11 has the maths wrong, but you say it fails to control for
12 the fact that different products have different volumes
13 and different absolute returns.

14 A. In part. I cannot remember if that diagram also
15 includes all of the licences. I think they might be
16 excluded.

17 Q. Yes, I think it does, I think this one does, because the
18 crosses on -- we are looking --

19 A. But this table here that we have is including the
20 licences, and it includes the value of assets at gross
21 book value. So what you can see is that whilst some
22 products have high returns, they are nothing in
23 comparison to phenytoin capsules.

24 The other problem that you have is that some
25 products have more licensing -- sorry, licensing,

1 promotion and marketing, so you might expect them to
2 have higher returns for that additional effort. You can
3 see here Circadin is a patented drug and so you would
4 expect it to have high returns, but you also have
5 a whole number of products which are extremely low
6 volumes. Given that they are extremely low volumes you
7 would expect them, all else being equal, to have high
8 returns on capital employed.

9 Now, the CMA does not say anywhere that having
10 a high return on capital employed by itself is
11 indicative of being excessive, and if we could turn one
12 page {XE1/15/56}, we can demonstrate this, to page 56,
13 and this chart shows the absolute returns earned by
14 phenytoin versus all other products.

15 The only other product that has relatively high
16 returns is, again, Circadin, the patented drug. So when
17 you do an ROCE analysis you must link it with an
18 understanding of: is a high return also leading to high
19 absolute profits, and here what we see is that both
20 phenytoin has the highest return on capital employed and
21 it also has the highest absolute profit.

22 Q. Mr Harman, thank you. I hope the Tribunal found that
23 useful. You have had an unusual amount of time in this
24 case to present your views, so if I could now ask my
25 questions.

1 A. Of course.

2 Q. Thank you. If we could go back, please, to

3 Dr De Coninck's figure 1 at {XE1/12/16}, the point

4 I wanted to put to you is that no one looking at this

5 graph would conclude that it provides empirical support

6 for your theory that ROCE rates in the pharmaceuticals

7 industry are 10%. So the 10% you can see is the red

8 line down at the bottom, and we can also see the level

9 of support for an industry-wide 10% ROCE rate is not

10 affected by whether you use net book value or gross book

11 value, is it, which is one of the variables that you

12 mentioned. Either way, there is a big -- all I am

13 saying is there is a big range of return rates for

14 individual products?

15 A. I think two things. One of the things that

16 Dr De Coninck has not done here is to re-express the

17 asset base in current cost terms. You have to be able

18 to match the return, which is in nominal terms, in money

19 of today, with the assets in their value today,

20 otherwise you will get high returns, especially when you

21 are dealing with products where there is very few

22 products, and so this analysis does not tell you what

23 rate of return you want because it is incomplete. What

24 this analysis seeks to do is show that you phenytoin is

25 different from all of the other businesses -- products.

1 THE PRESIDENT: To just ask about the adjustment, the date
2 range here is 2013 to 2017. Are you saying that all
3 prices should be expressed on the basis of 2017 prices
4 or 2013 prices or one year in between?

5 A. What I am saying is that the asset values, which is the
6 denominator, may have been purchased ten years ago.

7 THE PRESIDENT: I see.

8 A. Therefore they will not be indicative of values today,
9 because values go up over time.

10 THE PRESIDENT: So in order to determine whether a price is
11 or may be excessive, you have to assess the present
12 value of the assets of the entire undertaking, or just
13 the asset base of the --

14 A. The product.

15 THE PRESIDENT: Of the product, okay.

16 A. Yes, and we can do that with phenytoin capsules because
17 it is just working capital. That is the only invested
18 capital they have, and so that is in current value
19 terms.

20 MS STRATFORD: Thank you.

21 I had understood, but maybe my comprehension is
22 incomplete -- in fact that is no doubt very true -- that
23 the gross book value/net book value debate between
24 yourself and Dr De Coninck was at least part of the
25 answer to the point you have just been making about the

1 age of an asset. Is that not correct? The point about
2 this chart is it shows you both gross book value and net
3 book value figures.

4 A. The gross book value assumes that there has been no
5 depreciation, but it does not restate the gross book
6 value into current cost terms, so it does not adjust for
7 inflation. That is not included in the calculation.

8 Q. I see, so it is just inflation that would additionally
9 need to be --

10 A. It formed part of the assets, but the other thing the
11 analysis does not look at is what the current value of
12 intangibles are, what is the replacement cost of those
13 intangible assets. It has just taken the assets off the
14 balance sheet without expressing them into a replacement
15 cost format.

16 THE PRESIDENT: Just -- I should know this, but the
17 marketing authorisation for phenytoin was acquired by
18 Flynn for a nominal consideration of £1.

19 A. Correct.

20 THE PRESIDENT: Have you increased that value to reflect its
21 true value, whatever that might be, or have you taken £1
22 as being appropriate?

23 A. The CMA considered Flynn's actual investment in that
24 because, as I understand it, the value of any marketing
25 authorisation is captured to a degree in the price that

1 Pfizer charges Flynn, but it is a good question. If you
2 were to consider the -- for example, in Liothyronine
3 what the -- and this was regarded as a hard to
4 manufacture drug, there were two benchmarks, and the
5 value of those benchmarks that the CMA relied on was
6 between £450,000 and £1 million as being the replacement
7 cost for those products.

8 If you were to include that value for Flynn, it
9 would fall way below the sensitivity analysis that the
10 CMA did which increased the value of capital up to
11 £11 million compared to its working capital of 3.5. So
12 even if you were to increase the capital for that value,
13 stripping out any value that was in the input price, it
14 would not have an impact on the assessment.

15 THE PRESIDENT: Well, that is a helpful conclusory
16 statement. I am a little bit more interested in the
17 process by which one gets to it. We will obviously be
18 looking at Liothyronine with some care, but again,
19 I would rather stick to the facts of this case and your
20 view of those.

21 If we are to say that we need to look at the value,
22 for purposes of our WACC calculation, of the marketing
23 authorisation, we can of course just accept it as a £1
24 payment, and that is the asset value, but I think what
25 you are saying is that because Flynn was agreeing to pay

1 the sums that it was agreeing to pay for phenytoin
2 capsules to Pfizer, which was let us say high, put it
3 that way, no more, that payment in some way needs to be
4 reflected into the marketing authorisation value that
5 Pfizer was giving to Flynn, or is the --

6 A. Yes.

7 THE PRESIDENT: Is there an equation in terms of what is
8 being bought and sold the marketing authorisation for £1
9 and the payment to Pfizer of the considerable sums of
10 money that were paid in order to obtain the capsules of
11 sodium phenytoin?

12 A. Yes, I mean, I am sure there is a factual question as to
13 where it is in the matrix. What I would say is, based
14 on this diagram, this cost diagram, what we know is the
15 variable costs of Pfizer, which is about row 12, was
16 almost £5 million, that is its variable costs, but it
17 sold that volume to Flynn, in line maybe 15, for
18 £70 million per annum. So there is a mark-up between
19 Pfizer's costs of £5 million to £70 million on an annual
20 basis.

21 If the value of the marketing authorisation was
22 £1 million based on *Liothyronine* it could be higher --

23 THE PRESIDENT: How do we know?

24 A. So I understand --

25 THE PRESIDENT: I am not very interested in *Liothyronine*,

1 because those are decisions based upon facts which are
2 simply not before us now, and whilst we will read it
3 with great care, at the end of the day, the evidence
4 before the tribunal in that case was the evidence before
5 the tribunal in that case, and we are hearing evidence
6 in this case. So how does one get -- I mean, you
7 plucked a million out of the air for the marketing
8 authorisation. Why do you say a million in this case?

9 A. Well, because obviously we saw -- well, I think there is
10 one other fact that I am aware of, is that NRIM's entry
11 into the marketplace, I think that there was a level of
12 investment associated with getting the marketing
13 authorisation which I think was around a million, but
14 somebody can correct me.

15 THE PRESIDENT: Right.

16 A. But what I am saying is that given the difference
17 between £70 million and £5 million, the value of the
18 marketing authorisation would have to be hundreds of
19 millions to be able to justify that difference, because
20 the value of the marketing authorisation, right, is
21 a level of investment upfront, and what is included in
22 the costs stack for *Liothyronine* is the weighted average
23 cost of capital's value on that £1 million. So it is
24 £100,000 is what was included in *Liothyronine*'s costs
25 stack, but the difference here is something like

1 £65 million. So the marketing authorisation could never
2 sensibly account for that difference.

3 MS STRATFORD: Just to be clear, Mr Harman, for the record,
4 perhaps you mis-spoke, but these figures are for the
5 total of the relevant period. You said it was per year,
6 but this is for the whole period.

7 A. So then I would be comparing at a million, £400,000 to
8 £70 million.

9 THE PRESIDENT: You see, Mr Harman, it may very well be that
10 you are right that the mismatch between what is paid and
11 what was cost is so vast that any adjustment to
12 a component in the costs stack will make no difference,
13 and it may be that the answer is as simple as that, but
14 suppose we actually want to stress test the costs stack
15 of the CMA that we have here, and we want to insert our
16 own values to see what outcome there is. It may be
17 there is a hiding to nothing and it is absolutely clear
18 that there is an excess, but we want to do the job
19 ourselves.

20 A. Yes.

21 THE PRESIDENT: How do we go about ascertaining whether
22 the £1 that was paid for the marketing authorisation is
23 right or wrong, and, if it is wrong, how do we go about,
24 as a non-expert tribunal in this area, how do we go
25 about attributing a proper value to this asset? It

1 seems that there is a miscorrelation at the moment
2 between £1 paid and the value that Flynn derive from the
3 marketing authorisation that enabled it to sell sodium
4 phenytoin into the market ending in pharmacies' shelves.
5 So a certain margin was made which makes £1 for the
6 marketing authorisation jolly good value, and one infers
7 from the money that was paid by Flynn to Pfizer that
8 actually £1 is not the whole story, there is more to it,
9 but help us on how we adjust, if we need to at all,
10 the £1, save by saying it does not matter what adjusting
11 you make, it is still excessive. It may well be the
12 answer, but I would like to see the process of reasoning
13 between £1 and whatever it is.

14 A. Yes. So how can you do that? There are a number of
15 potential ways.

16 I think in *Liothyronine* there was a number of more
17 general estimates for valuing -- for the value of
18 marketing authorisations, so it is not just bespoke to
19 that particular molecule, but I will stand corrected,
20 but I seem to recall there was a lot of evidence and
21 that may give you an indication of the likely value as
22 a possible starting value. As I said, I think there is
23 some evidence on the costs that NRIM incurred in
24 entering the marketplace that can also give a starting
25 point if one wanted to include the value of marketing

1 rights in it, in the calculation.

2 I think that you can stress test the calculations by
3 asking the question: how much capital would you need to
4 add before you would change your consideration of
5 whether there was an excess, and you would have to bring
6 those two pieces of evidence together to be able to --
7 you know, to make a calculation, but, as I said, as
8 I understand the value of that market authorisation is
9 in the supply price between Pfizer and Flynn, so to the
10 extent that you were going to adjust Flynn you would
11 also have to adjust the Pfizer price to strip it out,
12 which would have the consequence of lowering the input
13 cost which would then seem to flow through to make Flynn
14 look like it is a higher return because the denominator
15 has fallen.

16 So there would be those two adjustments that would
17 need to be done.

18 THE PRESIDENT: You are assuming -- and it may be right --
19 a pound for pound correlation between the value to be
20 attributed to the marketing authorisation and the price
21 paid by Flynn to Pfizer. So add a pound on to the
22 marketing authorisation, take a pound away from that
23 which is paid by Pfizer, by Flynn to Pfizer.

24 A. I think that that could be a reasonable assumption to
25 make, because either you would sell the marketing

1 authorisation and choose not to charge for it.

2 I guess you could come up -- I do not quite know,
3 you know, kind of the technicality of is it held by one
4 or could it be held jointly half and half in some way in
5 which you could share the price of the marketing
6 authorisation, but if you were to think about it on
7 a stand-alone basis, the company, then --

8 THE PRESIDENT: What about, for instance, the use of the
9 marketing authorisation to sell sodium phenytoin
10 capsules outside the period here under consideration?
11 I mean, if one assumes that the marketing authorisation
12 is one that continues beyond the period that we are here
13 saying is under investigation, beyond the relevant
14 period, then is there not a value which would make us
15 move away from the pound for pound assessment because
16 you would have to look at revenues that might be
17 derivable by reference to the sale of sodium phenytoin
18 by Pfizer, and of course, the payment by Flynn to Pfizer
19 which are not reflected in these figures here?

20 A. I think the recovery of any market authorisation is
21 likely to incur over the period under which you expect
22 the sale of those drugs to last. So if you thought that
23 phenytoin had another 20 years, then you would amortise
24 the level of the market authorisation on some basis to
25 each period, is the standard way.

1 In *Liothyronine*, if I recall what the CMA did, it
2 assumed no amortisation, it assumed that the market
3 authorisation would last for a long period of time, so
4 there was no amortisation expense in the year, but the
5 return that you got on the marketing authorisation in
6 each year was higher because it is not depreciating, but
7 you would have to consider what the length of the period
8 is.

9 THE PRESIDENT: But, to be clear, you and the CMA have been
10 happy to take the £1 for the marketing authorisation
11 because you considered that the input price paid by
12 Flynn to Pfizer is enough to, as it were, compensate for
13 any undervalue in the marketing authorisation price?

14 A. Yes, and it was not something that was brought up by the
15 experts on the other side as something that was not
16 included in the analysis.

17 PROFESSOR WATERSON: It would also be the case, would it
18 not, that if the company was vertically integrated then
19 that would be a reasonable reason for making the £1
20 to £1 or £1 million to £1 million or whatever?

21 A. Yes, I was going there and I could not quite think
22 through the conclusion, but, yes, I agree.

23 PROFESSOR WATERSON: Thank you.

24 MS STRATFORD: Sir, I can see the time. It has been a long
25 session already for the shorthand writer, so although

1 I have just got a few more questions under this topic,
2 but I think it might be appropriate to break now.

3 THE PRESIDENT: We will rise. How are you doing, Mr Harman?

4 A. Yes, I am good, thank you.

5 THE PRESIDENT: Good, excellent. Let me know if that
6 changes. We will rise, then, for ten minutes until
7 10-to.

8 (3.39 pm)

9 (A short break)

10 (3.53 pm)

11 THE PRESIDENT: Ms Stratford, before we continue, I do
12 apologise, but I wondered if we could revisit this
13 question of the -- I am not sure whether we are talking
14 about value cost or price of the marketing
15 authorisation.

16 MS STRATFORD: Of course.

17 THE PRESIDENT: Let us suppose we have a situation as it was
18 with Flynn having purchased a marketing authorisation
19 from Pfizer for £1, but there is obviously a correlation
20 between paying the capsule price to Pfizer but also
21 receiving money from the pharmacies or the wholesalers
22 as Flynn onells, and would you accept that all three of
23 these sets of figures, the £1 for marketing
24 authorisation, the -- let us say, £10 million that is
25 paid to Pfizer, I know it is wrong, but let us say

1 £10 million -- and the £10 million that Flynn received
2 from the pharmacies, that these are all in some way
3 linked.

4 A. Yes.

5 THE PRESIDENT: So if one is to work out how one assesses
6 the value of the marketing authorisation in Flynn's
7 books, one needs to have a coherent view of these three
8 values.

9 A. I think potentially the Pfizer and Flynn aspects are
10 more important.

11 THE PRESIDENT: Right. So you are looking -- so let us each
12 have a -- let us imagine a chain: Pfizer, Flynn,
13 pharmacies, and let us have different values in the
14 chain otherwise we will get confused. So let us say
15 Flynn are paying Pfizer £20 million for the capsules,
16 and they are receiving from the pharmacies £30 million
17 which is a net benefit of 10.

18 A. Yes.

19 THE PRESIDENT: Okay. Now, we have the pound floating
20 there, but let us not worry about the pound, it is
21 neither here nor there. Were Flynn to say: I want to
22 put on my books a line as to what the value of the
23 marketing authorisation is, say they want to sell their
24 entire business and there is an argument about what it
25 is worth, how does one go about assessing that? Surely

1 one needs to take into account all elements of the cost
2 chain. I mean, let me put it to you and you can then
3 disagree. If I were saying what is the value of the
4 marketing authorisation to Flynn and what should be paid
5 for it, I would say: well, I am having to pay Pfizer
6 £20 million, but I am receiving £30 million, it is worth
7 around £10 million to me because I have not only got the
8 sales that I am likely to receive in the period under
9 consideration, but if the marketing authorisation has an
10 unlimited duration I can keep on making this margin as
11 time goes on, and you, the purchaser of my business,
12 needs to have regard to that when you are valuing the
13 marketing authorisation, the one thing you can say is it
14 is not worth a pound; it is worth, I am suggesting, far
15 more than that.

16 A. Well, I think in this situation we have to go back to
17 the concept of what we would expect to happen under
18 normal and sufficiently effective competition, so I see
19 it through how the CMA approached it on *Liothyronine*.
20 It basically said the value would be the cost to replace
21 the asset because if a competitor was to come into the
22 market it would face that cost.

23 THE PRESIDENT: What are you talking about as the asset
24 here? The marketing authorisation?

25 A. The authorisation.

1 THE PRESIDENT: Right.

2 A. The value of the authorisation, how much would it have
3 cost you to obtain a market authorisation, how much
4 would it have cost you to develop the product rights.
5 So what we saw in *Liothyronine* is that there were two
6 entrants who managed to obtain the authorisation for
7 between half a million and £1 million.

8 THE PRESIDENT: Right, I see. So you are saying that
9 whatever the income stream into Flynn, whatever they
10 have to pay to Pfizer is entirely by the by, it does not
11 matter at all. What you ask yourself is what would it
12 cost Flynn to obtain a marketing authorisation for this
13 product?

14 A. For this product. That is how it was done in --

15 THE PRESIDENT: We have been down this road before. Maybe
16 it was, maybe it was not. We will look at it later.

17 A. Yes.

18 THE PRESIDENT: That is not what you said in relation to my
19 mom-and-pop case. What you said there was: no, we will
20 just work out what happens if they can sell the product
21 for more.

22 A. Well, that is the --

23 THE PRESIDENT: Now, is what you are assuming -- and if so
24 let us get it out into the open -- that I can obtain
25 a marketing authorisation for any drug for £1 million.

1 Is that the assumption that you are making?

2 A. Well, you know, factually there will be a cost for
3 obtaining a market authorisation for this particular
4 drug, but --

5 THE PRESIDENT: Yes, but, I mean, forgive me, but there is
6 a whole raft of other things that you need to do before
7 you even come close to getting a marketing
8 authorisation. You need to actually have an assured
9 source of supply so you need to set that up. Presumably
10 you cannot do that with Pfizer. These will all have
11 costs.

12 What I am trying to grapple with is why, when you
13 are saying: let us hypothesise Flynn is trying to sell
14 their business, they are saying we have this valuable
15 marketing authorisation, in negotiations saying it is
16 not worth a pound, it is worth far more than that
17 because look at the money we are making, and it would
18 seem to me rather odd for the value to be divorced or
19 the price that the third party payer is paying to be
20 divorced from the income stream that is being earned by
21 Flynn out of this ability to sell sodium phenytoin
22 capsules into the market.

23 A. The framework that I would consider is that -- and this
24 goes to the replacement cost theory basically -- that
25 you would not overpay for obtaining an authorisation if

1 it cost you less to develop that yourself.

2 Now, when you talked about being inconsistent with
3 the mom-and-pop, it is not because, in effect, what you
4 could sell your business for as a mom-and-pop is what it
5 would cost somebody to replace your offering.

6 THE PRESIDENT: Okay, so what would it cost Flynn to replace
7 the marketing authorisation? Do we have that figure?

8 A. All that I know is that NRIM put forward that in
9 developing its market authorisation it had cost around
10 £1 million. So there are some facts on what it cost,
11 but that is not in my evidence. But that is the
12 framework that you would think about outcomes in normal
13 and sufficiently economic -- efficient competition. It
14 is based on absent barriers to entry what would it cost
15 others to get into business for.

16 THE PRESIDENT: You will have to remind me -- and it may be
17 that others will rather than you because it is
18 a question of fact: NRIM are a precise equivalent of
19 Flynn, is that right, or are they manufacturing as well?

20 MS STRATFORD: They outsource the manufacture to --

21 THE PRESIDENT: Well --

22 MS STRATFORD: In that respect, they were in the same
23 position as Flynn.

24 THE PRESIDENT: Right. Because that matters to the answer
25 to this.

1 A. Well, I have just remembered one other salient thought
2 which may or may not help. Of course, the way in which
3 the CMA developed the return for Pfizer was not through
4 the primary use of return on capital employed, it
5 actually adopted a 10% return on sales figure by
6 comparison to other businesses. So my understanding is
7 to the extent that that return reflects returns from
8 businesses that had marketing authorisations, it is
9 included in the CMA's costs stack.

10 Now, if we had been doing the primary method looking
11 at Pfizer having the MA, then you would have probably
12 had to think about what the value is, but I think the
13 CMA did not do that because for Pfizer it used the
14 return on sales figure which bypasses you having to
15 think about what an asset value is for the market
16 authorisation, and I think Mr Williams' evidence was
17 that often that is a negotiation between the two parties
18 as to who is going to bear the cost. He said it is
19 often the case that the manufacturer will include within
20 their returns a return for having the market
21 authorisation.

22 I am sorry, I had forgotten that point.

23 THE PRESIDENT: Yes, you see, I fear I am at an anterior
24 stage where I am just trying to get a feel for how one
25 is attributing value to these items, and I must say what

1 I expected you to say in response to my example was: ah,
2 the prices charged by Flynn to the pharmacies, and
3 indeed the prices charged by Pfizer to Flynn, cannot be
4 relied upon because of the dominance and the allegation
5 established in the Decision of excessive and abusive
6 pricing. That is where I --

7 A. I would take it as a given any way in my response,
8 but --

9 THE PRESIDENT: Yes, but we cannot take it as a given
10 because it has been challenged, that is the point of the
11 appeal.

12 A. Yes, but --

13 THE PRESIDENT: How do we get a sense of value? What should
14 be included in the value that Flynn is if it tries to
15 sell itself to someone else of what is clearly a very
16 valuable item of property?

17 A. As I said, the standard theory is that you would do it
18 at its replacement cost, and I would say that that
19 replacement cost has been built in at the moment into
20 Pfizer's prices to Flynn because the benchmark return on
21 sales used was a 10% return on sales for Pfizer and not
22 a cost --

23 THE PRESIDENT: Yes, but when one is talking value to Flynn,
24 what it will sell to a third party, it is not going to
25 say: gee, I made a fantastic deal here, I bought this

1 marketing authorisation and I am not going to make any
2 money out of it whatsoever, it is therefore valueless.
3 They are not going to say that. What they are going to
4 be saying is: we are getting a £10 million margin on
5 this example, it is an extremely valuable marketing
6 authorisation. The idea that it was worth a pound is,
7 frankly, nonsense. It is worth an income stream of
8 £10 million, and my question to you is why is that not
9 the starting point for the analysis of what Flynn is
10 worth?

11 Now, I quite understand if you say the CMA have
12 found that the pricing at both levels is abusive and,
13 therefore, you need to tread with extraordinary caution
14 when you are using this, but leaving that on one side
15 why is not the starting point what the facts of the case
16 show the property is worth, because we know that these
17 monies are coming in and they are going out.

18 A. So the first thing that -- so two points, and I fear
19 I may be going -- the first point is I am going round in
20 circles. The value at the Flynn stage is what it would
21 cost to replace the market authorisation, but the second
22 point that I would make is that if Flynn -- and I do not
23 know this, and I guess this is a factual legal question,
24 but it is actually Pfizer who manufactures the drug. So
25 if Flynn was to sell, I am not sure what market

1 authorisation it is actually selling because it is
2 Pfizer that has the know-how and the ability to
3 manufacture the drug.

4 So one would have to look at the contract between
5 Pfizer and Flynn.

6 THE PRESIDENT: Entirely agreed, and that is vanishing down
7 a rabbit hole that I do not want to vanish down. I am
8 assuming that this is an assignable contract by Flynn to
9 a third party such that the whole thing translates into
10 a third party's hands and they simply step in right of
11 Flynn in order to make the same sort of money. So we
12 can assume that, it may be right, it may be wrong, I do
13 not know.

14 A. I do not know, it is a factual point, and maybe it is
15 assignable, but where does the value lie? Is it with
16 Pfizer or is it with Flynn? It may be with Pfizer, its
17 ability, so who gets to keep the profit?

18 THE PRESIDENT: There is clearly some value because Flynn
19 are paying large amounts of money, in this example
20 £20 million, to Pfizer.

21 A. Yes.

22 THE PRESIDENT: But Flynn are receiving from the pharmacies
23 £10 million which they are not accounting for to Pfizer,
24 and if one assumes a chain of entitlement whereby Flynn,
25 or its assignee, have the right to demand delivery of

1 product by Pfizer and the ability by virtue of the MA
2 also obtained from Pfizer to sell into the market at
3 this sort of margin, why is that not the starting point
4 for valuing what there is rather than going into the
5 uncertainties of whether one can obtain an alternative
6 source of supply from someone other than Pfizer with
7 a different marketing authorisation which that person
8 may or may not transfer to?

9 A. Because, as I said, from a profit-maximising perspective
10 of the business, it would not overpay for something that
11 it can generate cheaper itself.

12 THE PRESIDENT: So does it amount to this: you are -- and
13 I quite understand why you are -- you are presuming that
14 there is an overpayment at both levels of the chain,
15 understandably because that is what the CMA has found?

16 A. Yes.

17 THE PRESIDENT: So that is a necessary part of your
18 reasoning?

19 A. Well, that is a part of my reasoning, but I would also
20 say absent that reasoning, the value of the
21 authorisation to any one of those parties is the value
22 that it would cost to replicate it.

23 THE PRESIDENT: So if one removes the assumption and
24 says: let us wield a magic wand and both decisions of
25 the CMA are as nothing, we have not heard of it, we are

1 just looking at this chain, this hypothetical chain, and
2 one is endeavouring to work out what it is worth, would
3 a fair assumption be that the operators in the chain are
4 operating in a workably competitive market and that
5 these prices are a useful extrapolation for what the
6 marketing authorisation and the other intangible rights
7 in the contract between Flynn and Pfizer are worth?

8 A. So if they are not acting abusively?

9 THE PRESIDENT: I am assuming that we do not know and that
10 there is no finding by the CMA that we are simply
11 talking about a presumptively commercial transaction.

12 A. Yes. So if we do not know if they are abusive and you
13 want to determine what the value is at a point in time
14 when there is no competition, that may, from a temporal
15 perspective, allow you to earn a higher return, and that
16 may say something about the value of the rights that you
17 hold. But to the extent that competitors can enter the
18 market at the replacement cost, prices will soon fall
19 soon after down to that competitive level because they
20 will be able to make a margin based on the higher price
21 that is being charged.

22 THE PRESIDENT: Does your answer differ if, again,
23 hypothetically speaking, it takes three years to get
24 a marketing authorisation out of the Department of
25 Health?

1 A. So this now -- I think that if there were no barriers to
2 entry --

3 THE PRESIDENT: Well, I already presumed one.

4 A. If there are surmountable barriers to entry --

5 THE PRESIDENT: Okay.

6 A. -- if there are surmountable barriers to entry, so
7 competition can emerge.

8 THE PRESIDENT: Right.

9 A. If you have that market authorisation at the beginning,
10 there is a temporal advantage that you may be able to
11 price higher.

12 THE PRESIDENT: Right.

13 A. So I think that is similar to case 2 or elements of
14 case 2 in *Hydro*. I think it is a different situation if
15 there is insurmountable barriers because there it is
16 just the market power that allows you to charge at that
17 level because under hypothetical workable competition
18 you would not be able to price at that level.

19 THE PRESIDENT: Okay, so assume this: assume that you can
20 obtain alternative sodium phenytoin capsules but it will
21 take 18 months for the alternative supplier to gear up
22 to produce them. That is no barriers, that is just how
23 long it takes devoting all appropriate resource to it.

24 Filling in all the forms and getting a marketing
25 authorisation from the Department of Health takes you

1 a further 18 months. So you are on a three-year
2 basis -- you are three years away from an ability to
3 enter the market.

4 A. Yes.

5 THE PRESIDENT: To what extent does that make a difference
6 in terms of valuing the marketing authorisation that
7 Flynn has in its possession here and now?

8 A. I think there is different ways of attracting this --
9 answering this question. The first is that if there is
10 a -- it takes time to develop the licence, it would be
11 reasonable to include the return of that capital that is
12 not yet earning a return. So if you have invested
13 £1 million in the first year and your cost of funding
14 that is 10%, you would increase that into the valuation
15 of the product rights, that was something that was
16 accepted in *Liothyronine*, and so -- and what we actually
17 saw in *Liothyronine* was there was a number of companies
18 who were willing to go through the process of obtaining
19 rights that took a period of time, so it seems to me
20 reasonable to assume that companies, if they thought
21 they could enter the market, to take the time, incur the
22 cost of not operating, almost like a lost return on your
23 investment from not having obtained the authorisation,
24 and then obviously once your authorisation is granted,
25 you would then obviously seek to recover not only the

1 costs but the time value of money of that loss over
2 time, and the incumbent in the marketplace for that
3 duration would be able to enjoy its special advantage of
4 having its market rights first.

5 THE PRESIDENT: So in this case, if Flynn was selling its
6 business, the marketing authorisation, or rather the
7 three years' ability to trade with the profits it is
8 making, would be valued at something like -- well, if it
9 is, say, a £10 million margin per year, of the order of
10 £30 million, something like that, on my assumed facts?

11 A. So assuming here that no abuse, the price is not
12 abusive --

13 THE PRESIDENT: I am assuming no abuse and a three-year run
14 to getting the marketing authorisation with a reasonably
15 contestable, certainly not an anti-competitive market.
16 So I am Flynn, I am making £10 million a year.

17 A. Yes.

18 THE PRESIDENT: I am paying £20 million a year to Pfizer.
19 I have no reason to believe that that is going to
20 change.

21 A. Yes.

22 THE PRESIDENT: But I want out, I want to sell my business,
23 including this, and I am trying to get the best price.

24 A. Well --

25 THE PRESIDENT: So I can say to my purchaser you have got

1 a clear run for three years, I am getting £30 million.

2 A. Then you may, in that situation, be able to extract
3 value if the market was -- had surmountable barriers to
4 entry and I would say that effectively what you are
5 crystallising over that period of time is some special
6 advantage that you have, that you have obtained the
7 rights for £1.

8 THE PRESIDENT: Therefore for the purposes of assessing the
9 capital of our hypothetical Flynn -- I stress this is
10 all hypothetical -- the line you would enter for WACC
11 purposes would be a capital of around £30 million.
12 Would that be right?

13 A. Would you tell me how you got there?

14 THE PRESIDENT: Well, all I am saying is there is
15 a three-year clear run because it takes three years to
16 get a marketing authorisation. We are assuming
17 a competitive market with no dominance. I am trying to
18 work out what my marketing authorisation that enables me
19 as of now to sell into the market. I am making a gross
20 revenue of £30 million a year, but £20 million of that
21 goes to our hypothetical Pfizer, so I am making 10
22 a year. So over those three years, £30 million. If
23 I am trying to value my marketing authorisation as of
24 day one, is not the value something around £30 million?
25 You might have to discount commercial --

1 A. As a commercial transaction, that is probably what you
2 would be able to achieve.

3 THE PRESIDENT: Right, and as an element in assessing what
4 your capital is, what Flynn's capital is, does the same
5 answer pertain?

6 A. In Flynn's actual situation?

7 THE PRESIDENT: Well, no, in this hypothetical situation.

8 I am not talking the actual, I am talking
9 hypothetical. Why is not the capital figure to be
10 attributed to the marketing authorisation the same as
11 what you would sell it for as part of a sale of the
12 entire business?

13 A. In a competitive marketplace, that would be the value
14 of --

15 THE PRESIDENT: That would be the value?

16 A. That would be the value. The question in this case is
17 whether the £30 million reflects what would actually
18 occur in a competitive marketplace, right, because you
19 would get entry, there would be competition, and
20 everything else, but I agree with your premise.

21 THE PRESIDENT: Well, look, let us suppose, just to ensure
22 we have the other side of the case put, let us suppose
23 that in fact one can get a marketing authorisation
24 instantly, and one can obtain a source of supply to feed
25 that marketing authorisation instantly.

1 A. Yes.

2 THE PRESIDENT: And through nefarious purposes, our
3 hypothetical Flynn manages to add an unjustifiable
4 three-year delay: they bribe someone or they have some
5 way of stopping the marketing authorisation taking
6 effect such that they get through these nefarious means
7 the three-year window. Your value there would be
8 adjusted because of the anti-competitive conduct that is
9 taking place.

10 A. Yes.

11 THE PRESIDENT: So it does -- I do not want to say all turn,
12 but in large part turn on what assumptions you make
13 about what is going on in terms of anti-competitive
14 behaviour in the market?

15 A. Yes, but I also think that, you know, in the real world
16 there is, you know, lots of factors that are happening.
17 First of all, you do not have complete information, so
18 you do not know where your competitors are in the
19 development of their market authorisations, you do not
20 know how many will actually enter into the marketplace
21 and the timing of that entry, so the issue that you
22 would have when valuing Flynn in your hypothetical at 30
23 is that you do not know whether you are going to be able
24 to capture that 30 over a period of time.

25 THE PRESIDENT: Of course, there would be a negotiation or

1 an accountant would have to value the certainty of the
2 three-year window that I have been putting to you as
3 a certainty.

4 A. Correct.

5 THE PRESIDENT: I quite accept that if you think that it
6 might be done in two or it might be done in ten,
7 would you have to factor that in.

8 A. Correct.

9 THE PRESIDENT: Okay, thank you very much, Mr Harman. I am
10 sorry to have taken so much time.

11 Ms Stratford.

12 MS STRATFORD: Thank you, sir.

13 I think in light of those exchanges, contrary to
14 what I said just before the break, I can move on now.

15 Mr Harman, we have so far been discussing your ROCE
16 analysis which is based on finance theory, and I want to
17 move on to Flynn's empirical analysis.

18 As you know, there are two groups of comparators
19 that we rely on to inform the reasonable rate of return.

20 So first Flynn's other products --

21 A. Yes.

22 Q. -- and second other companies, and what I am going to do
23 is ask some overarching questions about comparators and
24 then deal with these two groups in turn, and we will see
25 how far in that we get this afternoon.

1 On comparators, can I just put some propositions to
2 you about comparators and see whether you agree with
3 them from an economic perspective.

4 The first, if we could get up {XN2/28/49}, this is
5 our old friend Liothyronine, and just to show you
6 paragraph 135, of course you were involved in this as we
7 have heard, and the Tribunal cited the Court of Appeal
8 in this case for the proposition that:

9 "... the counterfactuals of greatest practical value
10 are often those drawn from real life, as opposed to some
11 hypothetical model."

12 So my question is whether as an economist, in
13 general terms, you agree with that?

14 A. Are you referring to -- is this referring to prices or
15 margins, this paragraph?

16 Q. I think it is probably both, Lord Justice Green.

17 A. I mean, I certainly think that evidence of prices is
18 important, if they are sufficiently comparable and they
19 are at a stage of normal and sufficiently efficient
20 competition. I would agree that you would want to, when
21 looking at margins, look at the real world. As you know
22 my position is the cost of capital is in the real world.

23 If there was sufficient comparability you might have
24 regard or you could have regard to return on sales, but
25 only to the extent that they are sufficiently

1 comparable.

2 Q. Then moving on {XN2/29/164}, this is Hydrocortisone,
3 a similar point at paragraph 331(1) the Tribunal said:

4 "Comparators are of particular importance even where
5 they may not be clear or compelling ..."

6 Oh, has it not come up? I am sorry. Did I not give
7 the reference? I apologise. Tab 29, page 164, still in
8 XN2.

9 A. And which paragraph?

10 Q. Paragraph 331(1). So you can see there the Tribunal
11 said:

12 "Comparators are of particular importance, even
13 where they may not be clear or compelling. Comparators
14 can include: (i) comparators on different markets; (ii)
15 comparators on the same market at the same time; and
16 (iii) comparators separated by time. In all cases, the
17 critical question for the court is whether anything
18 probative can be derived from the comparator in
19 question."

20 Again, as an economist, do you agree?

21 A. Again, I would agree that, when thinking about prices,
22 the degree to which there are comparables in different
23 markets, etc, it would be a reasonable thing to do as
24 long as it is under conditions of workable competition
25 when it comes to margins. I would also agree, save for

1 the fact that they have to be sufficiently comparable.

2 A good example of that, if you were looking at
3 comparables in different markets, if they were in
4 geographically different market places, you would have
5 to take into account differences in underlying costs and
6 regulations and those types of things. So, yes, they
7 can be informative, but you have to consider whether
8 they are sufficiently comparable.

9 Q. What the Tribunal was saying in Hydrocortisone was the
10 question is whether anything probative can be derived
11 from the comparator in question. So it is not a binary
12 question, is it? You look to see what you can gain from
13 the comparators.

14 A. I mean, that is for the court to determine from a legal
15 perspective. From an economic perspective it has to be
16 sufficiently comparable or at least that you know what
17 those differences are and you can account for them for
18 that information to be of probative value.

19 THE PRESIDENT: But it is unlikely to be that comparable in
20 any case where dominance is in play because, by
21 definition, given the legal definition of how one gets
22 to the market, one does not have a substitute in the
23 market because, if one did, one would not be dominant.

24 So is it not the case that when one is looking at an
25 abuse of dominance case, the comparables are always

1 going to be further afield than one would like?
2 A. And I think the question is how far are they away? So
3 in this case, as I have explained before, there is
4 a unique unusual set of factors that all point in one
5 direction in terms of low investment, low risk, high
6 input costs, high volumes, etc, that would suggest all
7 other things being equal you would expect the return to
8 be low, and it is the fact that there is that
9 combination of unusual factors that complicates, in this
10 case, in particular the use of a return on sales
11 benchmark.

12 THE PRESIDENT: Thank you.

13 MS STRATFORD: So just completing my trilogy of cases, if
14 I may, we have already addressed -- we have already
15 looked at the Original Tribunal judgment on this point
16 where your analysis was criticised for being based on
17 theory rather than comparators, and I think earlier you
18 agreed with me that was a fair reading of the judgment.
19 I do not think we need to turn that up again.

20 A. I mean, that is what the judgment said. I do not agree
21 that the methodology is as described as has become
22 evident through *Lio* and *Hydro*.

23 Q. Let us move on, then, to Flynn's other products, and you
24 are familiar, I think, with our basic point that Flynn's
25 returns on phenytoin are in the same ballpark as its

1 returns on other products. So what I am going to do is
2 take the figures quickly and then move on to your
3 responses, if I may.

4 So we use different measures of profitability.
5 I think, therefore, it is just helpful to start with
6 those. If we could please have {XE1/10/20}, this is in
7 CRA's fifth report, Dr De Coninck's fifth report, at
8 paragraph 61, and three measures of profitability are
9 mentioned: gross margin, product contributions and
10 return on sales, ROS.

11 The difference between them is the type of costs
12 which are taken into account. So ROS takes account of
13 all of the costs involved in supplying the product,
14 including common costs.

15 Turning to gross margins, they include only cost of
16 goods sold or COGS, and therefore no common costs. That
17 is right, is it not?

18 A. It is.

19 Q. And product contribution sits, as I understand it,
20 somewhere in the middle of those two?

21 A. Yes.

22 Q. That is fair, thank you. So you agree with
23 Dr De Coninck's basic descriptions here?

24 A. I agree with the descriptions.

25 Q. Thank you.

1 Let us look at what the different measures show,
2 then, if we could go, please, to page {XE1/10/13}, so we
3 are still in the fifth report at page 13 and figure 1.

4 Just to stress, I am not asking you to comment on
5 the utility of the comparison at this stage. I just
6 want to check you do not take issue with the
7 calculations behind the graph, and the calculation has
8 been done, to be clear, on the CMA's preferred common
9 cost allocation methodology, ie by volume, has it not?

10 A. It has.

11 Q. Thank you. We see that from note 2 below the graph.

12 I think we can agree, I hope, that just taking these
13 calculations at face value -- and I stress that -- they
14 show phenytoin to be in the middle of the pack.

15 A. That is what this analysis shows. As you know, I think
16 that that is a misleading comparison.

17 Q. Absolutely, we are going to come on to all of your
18 concerns, I promise.

19 So if we could go, then, to the next page, figure 2,
20 this is page {XE1/10/14}, this is still return on sales
21 but low investment products, but what -- Dr De Coninck
22 replicated his analysis for products with no promotion
23 amortisation costs, ie no substantial investment behind
24 them, and the comparison shows more or less the same
25 thing. Agreed?

1 A. Yes.

2 Q. Then over to page {XE1/10/22}, please, this is figure 3
3 which looks at gross margin, and same question. At face
4 value, this shows phenytoin in the middle, indeed, near
5 the bottom of the pack, does it not?

6 A. Yes, on the gross margin analysis it looks like
7 phenytoin is towards the bottom.

8 Q. Thank you. Now, there is another measure, just for
9 completeness, which you will recall Dr De Coninck used
10 in his position paper inspired by the *Liothyronine*
11 judgment which is what he refers to as product
12 differentials. I do not know if you recollect that?

13 A. Yes.

14 Q. For the Tribunal, it may just be worth pointing out that
15 this is the analysis that Dr De Coninck was referring to
16 in his exchange with you, sir, when he asked whether it
17 was possible -- whether it was possible to do a straight
18 comparison between cost and price. In case it is
19 helpful, we have dug up the transcript reference, which
20 is {Day10LH1/152:17} and over to page {Day10LH1/153:}.

21 If we could just look at Dr De Coninck's chart it is
22 at {XE6/4/13}, so this is his product differentials
23 chart, and the note on this chart explains that it
24 includes all of the costs that would be included in
25 a ROS analysis, ie including common costs, plus the

1 CMA's reasonable rate of return, so in other words, the
2 10% ROCE.

3 So it adds together both Flynn's operating costs and
4 its capital costs for each product based on a 10% WACC
5 and then conducts a straight comparison between those
6 costs and the price, and again, just taking this chart
7 at face value, phenytoin is in the middle of the pack.

8 A. On a percentage basis, yes.

9 Q. Thank you. One of your big picture objections to these
10 comparisons is that they fail to take into account,
11 first, the volumes in which phenytoin was sold and,
12 second, the input price paid to Pfizer. That is
13 correct, is it not?

14 A. Well, I think those are two elements. The third is also
15 the absolute profits that are being made for each of
16 these products.

17 Q. Yes, I am going to come to absolute profit, I know
18 I keep saying that, it may now be tomorrow morning --
19 sorry, Wednesday morning, but just for the note, for
20 example, in your third report at paragraph 6.3.4
21 {XE1/15/77} is one of the places, or perhaps a main
22 place where you said that the margin was biased by high
23 input prices and high volumes?

24 A. Yes.

25 Q. We --

1 A. And just to, I mean, I guess crystallise that, what you
2 are actually seeing is a number of products that had
3 high margins but have very low volumes, so if you were
4 to take a weighted average of all of the other products
5 together and display it as an average as opposed to the
6 distribution, then you would find that the margin on
7 a return on sales basis for all other products is 12%,
8 but for phenytoin capsules it is 36%.

9 So whilst the distribution is what it is, when you
10 actually adjust for differences in volumes and costs,
11 then you see a very different picture.

12 Q. Okay, well, can we just take it in stages and start with
13 the input costs, please.

14 Could we please go to {XE1/7/18}? This is back to
15 Dr De Coninck's second report at paragraph 55.

16 What we are seeing here is that Dr De Coninck has
17 obtained the unit costs of all of Flynn's products
18 excepting one, I should say, Viperatab, which has a unit
19 cost of more than £900, so very high unit cost, that was
20 left out, and it is fair to say that phenytoin is at the
21 upper end of the range, but if we just look at unit
22 costs alone, it is not a clear outlier, is it?

23 A. It is a clear outlier when you do not control for
24 volumes. The other two products sell in significantly
25 lower volumes, so I think one of the two -- I cannot

1 remember which -- sells 167, and the other one is in the
2 very low thousands, versus phenytoin that is 700 and
3 something thousand. So you have to adjust for both
4 volume and for input cost.

5 Q. I understand that is your position, but, Mr Harman, if
6 you just will bear with me, I want to -- as I said,
7 I want to take it in stages and look, for the sake of
8 a clear analysis, first at the input costs.

9 So just looking alone at unit costs, my point is
10 that phenytoin is not a clear outlier, even when the
11 very extremely competitive Viperatab is not even shown
12 on this chart.

13 A. Again, when you address information like this, you have
14 to have more than one dimension in your head at the same
15 time.

16 Q. Okay.

17 A. If the question is if I only looked at this, is
18 phenytoin the highest, no, but do I think that that is
19 a reasonable assumption to make, and the answer would be
20 no.

21 Q. Okay, could we put this document up next to {XE6/4/13},
22 which is Dr De Coninck's differentials analysis that we
23 were just looking at, so in other words his straight
24 comparison between cost and price.

25 I think your hypothesis is that a higher unit cost

1 will generally require a lower level of percentage
2 return because it will produce a higher level of
3 absolute return?

4 A. Say that again.

5 Q. So higher unit cost generally will require a lower level
6 of percentage return because it will produce a higher
7 level of absolute return.

8 A. Sorry, I may well be flagging, so apologies for asking
9 the question a third time.

10 THE PRESIDENT: Not at all, Mr Harman, and if you feel you
11 would like us to draw stumps early then it would only be
12 fair to do so.

13 A. It is fine to go the course. It is just it is my focus
14 on the question slipped.

15 THE PRESIDENT: I quite understand that, Mr Harman.

16 MS STRATFORD: I actually --

17 MR HOLMES: Sorry, I do not mean to intervene. Of course
18 Mr Harman must say if he is ready, but I do apprehend
19 that we are now definitely going to go into Wednesday,
20 and it has been an extremely long day for this witness,
21 who I know is an experienced expert, but I would just
22 ask the Tribunal to consider that.

23 THE PRESIDENT: I have that well in mind, Mr Holmes, thank
24 you.

25 Do you want to reach a convenient moment,

1 Ms Stratford? We will try and finish materially before
2 5.00.

3 MS STRATFORD: Yes. Try and finish, I am sorry, sir?

4 THE PRESIDENT: Materially before 5.00.

5 MS STRATFORD: Of course, if I can maybe just finish this
6 point?

7 THE PRESIDENT: Yes, finish this point and we will draw
8 stumps.

9 MS STRATFORD: I actually do not think, Mr Harman, that this
10 is going to be difficult for you. I may be wrong, but
11 all I am putting is a very no doubt lay person's summary
12 of your hypothesis which I understand to be that higher
13 unit cost will generally require a lower level of
14 percentage return because it will produce a higher level
15 of absolute return.

16 A. No, not quite. My position is that, if you think about
17 your formula for return on sales, it is the level of
18 profit divided by revenues, and revenues is a function
19 of costs and volumes. So all other things being equal,
20 the higher the level of costs, the higher the level of
21 volumes, the lower the return on sales that you are
22 required on a fixed level of capital.

23 Q. I think that is actually what I was saying, no doubt, in
24 my lawyer's language. The point I want to put to you is
25 that, if we look at these figures here in

1 Dr De Coninck's differential analysis, it just does not
2 hold true empirically. I can see that you are trying to
3 go to a different document.

4 A. No, I am just trying to reconcile the calculations that
5 Dr De Coninck has done versus the calculations that
6 I present in my teach-in, because in the teach-in it is
7 very clear that the absolute returns of phenytoin are
8 significantly higher than all other products, and my
9 analysis also shows that the gross margin is also much
10 higher for products that both have high costs and high
11 volumes.

12 Q. At the moment I am just isolating -- I have been looking
13 at unit costs, and then I am looking at the product
14 differential analysis which is Dr De Coninck's
15 comparison between cost and price. So I appreciate it
16 is not the way you looked at it.

17 A. But you would have to compare the products that have the
18 same attributes in terms of volumes and costs. If you
19 are going to compare this to -- it would be like my
20 Sainsbury's versus the corner shop. Yes, Sainsbury's
21 will have a lower differential on the sale of milk
22 compared to the corner store because it has higher
23 volumes and is able to recover its fixed costs on a more
24 efficient basis.

25 So if you are low/low cost, my assumption is that

1 you can have a high differential. It is just a matter
2 of mathematics.

3 Q. Let me just put the point which I need to do at this
4 point. I appreciate you do not accept the basis of
5 either of these charts, but the point we are putting --
6 and I am sure you have this already -- is that the
7 figures just do not bear out your theory empirically, so
8 if we look, for example, at Thiopenthal, just to take an
9 example, it has a higher unit cost than phenytoin but
10 also a higher differential between cost and price.

11 A. But much lower volumes.

12 Q. If we look at Collaguard, it has a very high unit cost
13 but is loss-making.

14 A. Yes.

15 Q. Okay, let us look then at volumes now. I am happy to
16 leave that until Wednesday morning if you and the
17 President would like to do that, but I am immediately
18 coming on to volumes.

19 A. I am happy to do that. My analysis in my report
20 controls for volumes and costs at the same time, and it
21 makes clear that phenytoin --

22 THE PRESIDENT: We will come to that. I think it is
23 appropriate, Ms Stratford, if it is all right with you,
24 that we rise now, and, Mr Harman, you can emerge rested
25 on Wednesday morning. We are not sitting tomorrow. You

1 will bear in mind what I said about not speaking to
2 anyone about your evidence, thank you.

3 Do we need to sit at 10.00 rather than 10.30,
4 Ms Stratford?

5 MS STRATFORD: Yes, I think certainly 10.00, please.

6 THE PRESIDENT: I think earlier than that causes
7 difficulties.

8 MS STRATFORD: Of course if it does not cause others
9 difficulties. I am sorry, I had not remembered that in
10 the timetable we were 10.30.

11 THE PRESIDENT: It reverted, I think, to 10.30 because we
12 lost a day because of last Thursday and could not make
13 it up on the Friday, so we carved out an extra hour each
14 day by sitting 10.00 to 5.00.

15 That regime has now come to an end, but I think we
16 were going to keep it under review, and that review is
17 now, and it seems to us, if everyone else can bear it,
18 we will start at 10.00 and see how we go for the rest of
19 the week.

20 MS STRATFORD: I think that would be prudent. I am very
21 mindful, sir, that you and the Tribunal will want plenty
22 of time for questions at the end.

23 THE PRESIDENT: Well, indeed, I am very grateful for that,
24 but we do not want the important QALY evidence to be
25 itself squeezed, so we will do that and we will see how

1 we go on Wednesday.

2 Well, thank you all very much. We will resume on

3 Wednesday morning.

4 (4.49 pm)

5 (The hearing adjourned until 10.00 am on

6 Wednesday, 29 November 2023)

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