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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

A P P E A R A N C E S

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, 20 November 2023

(10.00 am)

THE PRESIDENT: Good morning. The hot-tub will continue,
but Professor Waterson will lead it.

Concurrent expert evidence of DR MAJUMDAR, DR DE CONINCK,
MR WILLIAMS, MS WEBSTER & MR HARMAN

PROFESSOR WATERSON: Right, so again, as with the previous
hot-tub, we are going to be talking not always directly
about this particular case but I will have a series of
questions which are associated with this case in some
way or another, but I do not want to -- they will not
all be directly on this case.

So to start off, then, let us consider a drug for
which, for a small number of patients, there is no
substitute. Assume further that the maximum annual
willingness to pay for such a drug by the health service
is £12,000 a year.

So what will the demand curve look like for that
drug? I will start with Mr Harman.

MR HARMAN: So if I can clarify, I guess, is this drug
essential?

PROFESSOR WATERSON: Yes.

MR HARMAN: It is essential, and there is no substitute?

Without further information I would say that it is
broadly inelastic.

1 PROFESSOR WATERSON: Yes, I think it will be broadly
2 inelastic, yes, but ...

3 MR HARMAN: So, yes, I mean, this would seem to me to be
4 a situation where there are no substitutes, there is no
5 prospect of competition emerging, assuming --

6 PROFESSOR WATERSON: Not at the moment, no.

7 MR HARMAN: No. Assuming that not only is it a maximum
8 willingness to pay, but actually, the ability to pay is
9 also there, then I would say that the demand curve is
10 inelastic.

11 PROFESSOR WATERSON: Sorry, I did not ...?

12 MR HARMAN: Is inelastic, vertical.

13 PROFESSOR WATERSON: Ms Webster?

14 MS WEBSTER: Yes, I would agree with that.

15 PROFESSOR WATERSON: Dr De Coninck?

16 DR DE CONINCK: Yes, I think if the idea that this drug is
17 really life-saving and essential, it will be bought at
18 this price, and the quantity will not vary, hence it is
19 inelastic, yes.

20 PROFESSOR WATERSON: Any dissent from... no?

21 DR MAJUMDAR: Not from me. Sir, can I just check, I think
22 you said £12,000 per year was the maximum willingness to
23 pay for the buyer, was that, just to check I --

24 PROFESSOR WATERSON: Yes, for the drug.

25 DR MAJUMDAR: For the drug?

1 PROFESSOR WATERSON: Yes.

2 DR MAJUMDAR: Thank you. So in that case, yes, I would
3 expect there to be a vertical demand curve as well in
4 that scenario.

5 PROFESSOR WATERSON: Right, yes, so we are all agreed on
6 that?

7 MR WILLIAMS: Can I just say there is a real world example
8 right now in the health service with a drug called
9 Orkambi and it is part of a triple therapy by Vertex,
10 you may have read about it, in cystic fibrosis, where
11 they are proposing to charge £160,000 per year, and the
12 NHS said we cannot afford it, so they are not expecting
13 to make any sales until that is resolved.

14 PROFESSOR WATERSON: Yes. I am coming on to that sort of
15 case, but at the moment we will stick with this example.

16 So then moving along the line again, Ms Webster,
17 what price will a profit-maximising monopolist charge
18 assuming no further regulation?

19 MS WEBSTER: I would expect the monopolist to charge the
20 maximum willingness to pay of 12,000.

21 PROFESSOR WATERSON: Thank you.

22 Dr De Coninck?

23 DR DE CONINCK: Not necessarily, but, you know, it could be
24 close to that, but I think if we look at real case
25 examples of the high prices to drugs, by drugs that are

1 patented and face competition, they of course are not
2 going to charge more than the maximum willingness to
3 pay, but they may, for some reason, still as
4 a monopolist decide to charge less, not because it would
5 affect the quantity when you have inelastic demand, but
6 because of other potential costs of charging high
7 prices.

8 I think that is one of the elements that was raised,
9 for example, for Sovaldi pricing by Gilead some years
10 ago, and the idea was: well, even a monopolist takes
11 into account constraints on its -- on how it is
12 perceived and its reputation, on a number of costs in
13 addition that may mean that, you know, the firm may
14 decide to price at a level that is under the absolute
15 willingness to pay, even if it does not have
16 competition.

17 PROFESSOR WATERSON: So in practice it might be less than
18 that, but if it is purely profit-maximising, you are
19 saying it will charge that?

20 DR DE CONINCK: Unless there are other costs that are posed
21 there.

22 PROFESSOR WATERSON: Yes, yes, yes. Yes.

23 So?

24 DR MAJUMDAR: Yes, so just again to be clear, I think you
25 mentioned that at this particular stage of the example

1 there is no regulation. If there were regulation, I can
2 imagine the scenario where a monopolist would not
3 necessarily price up to full maximum willingness to pay,
4 for example, because it was benchmarking against other
5 regulated prices. However, in this particular scenario,
6 I would expect the monopolist, assuming it knew, had the
7 full information and therefore knew maximum willingness
8 to pay I would expect its monopoly price to be the
9 maximum willingness to pay.

10 PROFESSOR WATERSON: Right, okay. Thank you. Good.

11 So now, just to keep most of the assumptions of the
12 example but now assume that each year some of -- a few
13 new patients are diagnosed, say 4% new patients are
14 diagnosed, and some of the patients die, not through
15 anything to do with this drug but simply they have come
16 to the end of their life for some other reason. So some
17 of them will be placed on this drug, and others on an
18 alternative drug with the choice being made randomly.
19 I am emphasising randomly here. Does this affect the
20 pricing decision?

21 Dr De Coninck?

22 DR DE CONINCK: Yes, so that means that the quantity of
23 patients that the drug would cover is not fixed, so you
24 have new patients which can either be given a drug or
25 not given a drug, and depending on the -- I mean, the

1 question is what do you mean exactly by randomly and how
2 they can be allocated.

3 PROFESSOR WATERSON: What I mean is that they are first
4 prescribed in hospital and some consultants prefer one
5 for their patients, others prefer another.

6 DR DE CONINCK: All right, so --

7 PROFESSOR WATERSON: But that is purely random.

8 DR DE CONINCK: Okay. If there is -- the question is, is
9 there an impact on the price that is chosen on those
10 patients, if I understand correctly what you are saying,
11 is now it is completely random, then there is no link
12 between the volume and the price which is different from
13 whether for these new patients the price that is chosen
14 could have an impact.

15 PROFESSOR WATERSON: Right. Yes, I am afraid that many of
16 the questions will not interest you, but that is fine.

17 MR WILLIAMS: They interest me, sir, but I will not waste
18 time answering them.

19 PROFESSOR WATERSON: No, no, fine.

20 DR MAJUMDAR: Yes, as Dr De Coninck says, I think we have
21 a situation here where, as you say, some patients are
22 dying, there are potentially other patients coming to
23 the market, but because they are allocated randomly,
24 volume is not sensitive to price and, therefore, you
25 would still price at the maximum willingness to pay as

1 a monopolist.

2 PROFESSOR WATERSON: Right, thanks.

3 Mr Harman?

4 MR HARMAN: Yes, I agree with what has been said, with one
5 addition.

6 To the extent that it is not random, to the extent
7 that there is a price consideration which is maybe where
8 you are going anyway --

9 PROFESSOR WATERSON: Yes, I will be going there, yes.

10 MR HARMAN: -- you know, it seems to me that you would not
11 change your price for the reasons given, and to the
12 extent that you thought there was an issue, then it may
13 be better to retain your prices anyway and only price to
14 the captive market, and lessen the level of competition
15 on the non-captive market, but I am probably getting
16 ahead of myself.

17 PROFESSOR WATERSON: That may be so, yes.

18 MS WEBSTER: I have nothing to add to what has been said in
19 relation to that question.

20 PROFESSOR WATERSON: Good. Okay, well we are proceeding
21 well.

22 Now, let us assume -- and again, these examples are
23 not meant to be accurate but they are simply examples to
24 gain a general understanding and so far I think people
25 have been pretty much aligned.

1 Let us now assume that all drugs are in a similar
2 situation, not just this drug, but all drugs in
3 a similar situation.

4 Now, if they were all -- and they also, let us
5 assume just to make it simple, they all have a -- the
6 cut-off, if you like, for drugs is £12,000 a year, so
7 the NHS will pay in principle up to £12,000 a year for
8 each of these drugs. However, if the NHS did pay up to
9 that price for all the drugs, then the drug's budget
10 would be completely broken. That is they would only be
11 able to fund 50% of that. So some extremely difficult
12 decisions about priorities would then need to be made.

13 So in what sense, if any, is the current price of
14 this drug, assuming it is priced at £12,000,
15 excessive -- (a) excessive and (b) unfair in itself?

16 Is that scenario clear to people?

17 Dr Majumdar?

18 DR MAJUMDAR: Thank you, sir. May I just check? I think
19 you are saying that there are many drugs, and on an
20 individual basis the Department of Health would be
21 willing to pay 12,000 for each individual drug, but if
22 it paid 12,000 for every single one of them it would in
23 essence double its budget.

24 PROFESSOR WATERSON: Yes.

25 DR MAJUMDAR: So then your question is does that make

1 a price of a -- a monopoly price of £12,000 for one
2 individual drug unfair.

3 PROFESSOR WATERSON: Yes, or -- well, first of all,
4 excessive and secondly, unfair.

5 DR MAJUMDAR: Okay, and when you say excessive you mean in
6 the sense of limb 1 excessive?

7 PROFESSOR WATERSON: Yes, exactly.

8 DR MAJUMDAR: I think it would depend what the cost of
9 producing that drug would be.

10 PROFESSOR WATERSON: Right.

11 DR MAJUMDAR: So we cannot answer that question at the
12 moment on the basis of the information. I think it
13 would also depend on the value that the drug delivers
14 because at the moment we understand that the price --
15 sorry, the willingness to pay is £12,000 for all drugs,
16 but it may be that some drugs actually deliver greater
17 value than others in which case, if this is
18 a particularly valuable drug, that £12,000 might be
19 entirely justified. So at this stage I am afraid
20 I cannot give you an answer to that question.

21 PROFESSOR WATERSON: No, that is fair enough. When you say
22 about the value of the drug, perhaps you could be a bit
23 more precise about what you mean there.

24 DR MAJUMDAR: About value of the drug? Okay, so we are
25 talking here about a pharmaceutical, and this

1 pharmaceutical will presumably, when taken by the
2 patient, deliver some benefit in terms of life
3 improvement, be that controlling a seizure or whatever
4 it is depending on the drug. That is something that is
5 valuable and it can be quantified in monetary terms.

6 PROFESSOR WATERSON: Quantified in monetary terms how?

7 DR MAJUMDAR: Well, one way of doing it would be to look at
8 QALYs, which is the way I understand that the -- that
9 NICE look at things, and I am not an expert in health
10 economics, so I could not --

11 PROFESSOR WATERSON: We are seeing some later in the
12 process.

13 DR MAJUMDAR: Right, so I could not comment in detail on
14 that, so I do not know precisely how they are
15 calculated, but that certainly would be one way of
16 assessing value of a particular drug.

17 PROFESSOR WATERSON: Okay, thanks.

18 So Dr Majumdar has mentioned the cost of the drug,
19 the value of the drug and possibly how one measures that
20 in terms of QALYs.

21 Looking at the same scenario, Mr Harman, how
22 would you answer?

23 MR HARMAN: I think that to assess the excess, as in limb 1,
24 then I think that it is necessary to be able to compare
25 that to a benchmark and a reasonable benchmark would be

1 cost plus, so I think that is very much the first step.
2 The question as to whether the price is then unfair,
3 you know, is then coming into the second limb.

4 I think what is important when thinking about the
5 second limb is to ask the question what price would you
6 expect to emerge under normal and sufficiently effective
7 competition, ie whether any differentiation that is
8 captured currently in the price of drug, if the market
9 was competitive, would be at that level, and to the
10 extent that there was competition and prices would fall,
11 then that may be an input into assessing whether the
12 12,000 is unfair once it has been assessed that there is
13 an excess.

14 PROFESSOR WATERSON: Thank you, good.

15 Ms Webster?

16 MS WEBSTER: Yes, I would agree with what has been said by
17 Mr Harman. It is important to have comparators in
18 relation to the excessive limb, and that is where cost
19 plus comes in, and then in relation to unfairness
20 looking at the degree to which -- looking at the price
21 that would result were there to have been sufficiently
22 effective competition and judging the price against that
23 benchmark price.

24 I think that would also enable Dr Majumdar's point
25 about value to be taken into account so one can imagine

1 that, say there is a certain amount of value that comes
2 from this drug, if competition is working sufficiently
3 effectively and patients have -- and the NHS has choice,
4 then that value will be revealed by the preferences that
5 the customer expresses over the different options for
6 that product under competitive conditions.

7 PROFESSOR WATERSON: Right, thank you.

8 Dr De Coninck?

9 DR DE CONINCK: I mean, here we really, I think, are
10 likely -- I mean, of course, we do not have the cost or
11 the cost plus information, but assuming we are more in
12 the unfairness part of the discussion, it seems that the
13 issue is that there is limited budget for the NHS, so
14 I think that if we want to know whether, for that
15 particular -- it has to be -- you know, if it is fixed
16 and it is shared in a way. I mean, it is a bit strange
17 to be in a situation where the willingness to pay is
18 independently -- when you take the sum of the
19 independent willingness to pay you have more than the
20 budget, so is that really the willingness to pay? But
21 I mean, in the end I think there are trade-offs that
22 have to be made if you have different drugs, so is it
23 fair, then you have a fixed budget, you see how much you
24 pay for that drug compared to other drugs, and you will
25 have to get a sense of the benefits of those different

1 drugs, I think, comparatively.

2 PROFESSOR WATERSON: Thank you.

3 Anyone else on this point?

4 DR MAJUMDAR: Just to say going back to value, I think we
5 need to -- I do not fully agree with what Ms Webster is
6 saying there. I think we need to -- value is separate
7 from competition. Value is essentially just the -- here
8 you can measure it in pecuniary terms. It is
9 essentially the value to the patient for sake of
10 argument for the improvement in the patient's life as
11 a result of taking the drug, and that in and of itself
12 is not something that is determined by competition, that
13 is just some external feature of how well and how
14 effective the drug is.

15 PROFESSOR WATERSON: Right, thanks.

16 Coming back to, then, Ms Webster, would you agree
17 with that?

18 MS WEBSTER: I take the point that there is a certain amount
19 of value, and then that is also reflected by the fact
20 that there is a high willingness to pay for this
21 product, and I suppose I come to, well, what is it
22 reasonable to pay for that value when one is trying to
23 work out whether prices are unfair or not, and the
24 benchmark I am using is to say I think that one would
25 reasonably expect to pay an amount for that value that

1 would arise through -- as the outcome of competition
2 working well, and if competition is working well, then
3 the prices that will be revealed will reflect the value
4 of the drug.

5 So I think it does not need to be separated in the
6 way that Dr Majumdar suggests.

7 PROFESSOR WATERSON: So I think there is a distinction in
8 what you mean by value from what Dr Majumdar means by
9 value. Dr Majumdar is focusing on something which
10 admittedly he does not know about -- I do not mean that
11 pejoratively, I am just saying that you put it down to
12 QALYs, but you are not an expert in that area, and that
13 is fair enough, you are not asked to be an expert in
14 that area, whereas you, I think, Ms Webster, are saying
15 its value is represented by, I guess, a workably
16 competitive situation, if we can define such, without at
17 the moment thinking about what is meant by workably
18 competitive.

19 MS WEBSTER: Yes.

20 PROFESSOR WATERSON: Perhaps something we discussed last
21 week anyway, so there is some divergence there between
22 you.

23 DR MAJUMDAR: Sorry, sir, can I just comment on that point?

24 If we move away from pharmaceuticals to any other
25 product where I can speak more -- perhaps a bit more

1 confidently about value. I mean, if we were just taking
2 a widget for sake of argument to pick a neutral product,
3 then essentially what we have is we have a concept of
4 value, a concept of maximum willingness to pay and we
5 have a concept of price, and the difference between the
6 two will be consumer surplus and essentially what I am
7 saying is that that maximum willingness to pay is not
8 determined by competition. Yes, a price may be
9 determined by competition, but I just want to sort of
10 make clear, if you like, this value is -- you know, it
11 is a separate demand side feature.

12 PROFESSOR WATERSON: Yes, so in the widget example you are
13 assuming some elasticity in demand, are you? That is
14 that some people are willing to pay a very high price.
15 As the price falls more people are willing to pay that
16 price?

17 DR MAJUMDAR: I mean not necessarily. It depends on the
18 nature of the widget. It could be -- it is possible you
19 have a downward sloping demand curve in that sense, it
20 could be a widget that for some reason there is one
21 buyer that has a sort of box-shape demand curve that is
22 vertical up to a maximum willingness to pay. That is
23 also possible.

24 PROFESSOR WATERSON: Right, okay, and there is that sole
25 buyer in that case?

1 DR MAJUMDAR: In principle, yes.

2 PROFESSOR WATERSON: Right, but in general, more generally,
3 I mean, moving away from the drugs example as you did,
4 more generally if people -- different people had
5 different willingnesses to pay then presumably the
6 demand curve would be somewhat elastic, and the
7 person -- there would only be one person who would be
8 willing to pay the very highest price?

9 DR MAJUMDAR: Yes, in general, if you like, your standard
10 textbook demand curve would be downward sloping as you
11 say, sir, with the highest point intersecting the price
12 axis and demand sloping downwards as willingness to pay
13 differs across customers, for example.

14 PROFESSOR WATERSON: Yes, right. So I think -- sorry, do
15 you want to come back, Ms Webster?

16 MS WEBSTER: If I may.

17 PROFESSOR WATERSON: Yes, certainly.

18 MS WEBSTER: So I agree with the way that Dr Majumdar has
19 characterised it. That is absolutely right, there is
20 a certain -- in the way that he has described it, there
21 will be a certain intrinsic value of the product to
22 consumers. In a competitive market, workably
23 competitive, the price will be at the sort of lower
24 level that Dr Majumdar indicated, and in effect, that
25 value is captured by consumer surplus in that situation.

1 In a situation where there is not the -- competition
2 is not working well and there is not the outside option,
3 what we are then saying is -- sorry, this is my
4 interpretation of what Dr Majumdar is saying -- is if
5 one wants to quantify the value, one does not need to be
6 tied to the price that customers could expect to pay for
7 that value, were competition working well. There is
8 some logic to saying that a price could be above that.
9 This seems to come back to the question of whether one
10 is looking at the distribution of producer and consumer
11 surplus and where to draw the line in terms of what is
12 appropriate, and I suppose in my sense because we are
13 looking at a test which is about the ability of the
14 company to have earned benefits that would not have been
15 available in a competitive market, that is what brings
16 me back to let us think about putting a price on value
17 which is the price that would be paid were competition
18 working well.

19 PROFESSOR WATERSON: Right, thank you.

20 DR MAJUMDAR: I think I am making a much more simple point
21 which is namely that consumer surplus is the difference
22 between willingness to pay and price, and the
23 willingness to pay is determined separately from
24 competition. I think the point is really quite as
25 simple as that.

1 PROFESSOR WATERSON: Okay, good.

2 DR DE CONINCK: I mentioned that last week too, but I think
3 the price that you would observe in a reasonably
4 competitive market is a lower bound on the value.
5 I mean, I think it is quite extreme to say that the
6 price that you would observe there would be the value,
7 I think, because there is a higher willingness to pay of
8 course may depend on the exact distribution of customers
9 and willingness to pay, but to say that the value is
10 just equal to the price and you consider that all the
11 consumer surplus that comes out of that is not part of
12 the value I think is quite extreme.

13 PROFESSOR WATERSON: On this point, I think Dr Majumdar has
14 drawn a very useful distinction which is that -- you can
15 say whether you have drawn this distinction or not --
16 which is a difference between the market for widgets
17 where different people have different willingnesses to
18 pay, and the market for this -- or let us call it market
19 for this pharmaceutical product where there is
20 essentially a single buyer and the decision for the
21 single buyer as to whether to buy this thing or not, and
22 that decision at the moment is not reflected in price.

23 Do you agree with that?

24 DR MAJUMDAR: Yes, I think if we are thinking about
25 capsules, drugs, then actually thinking about an

1 individual sophisticated single buyer like the
2 Department of Health does make sense, sir, yes.

3 PROFESSOR WATERSON: Anyone else? No?

4 MS WEBSTER: I suppose the question which I would have is
5 what is not clear to me is where it leads, in a sense.
6 One can observe that if there is a single buyer with
7 a very large willingness to pay then there is not a --
8 one cannot observe in that situation: this is the price
9 that would have existed in a competitive situation. We
10 are hypothesising a market where there is not
11 competition, if I have understood you correctly, and so
12 one therefore is searching for where a price should lie
13 that reflects the value.

14 So I think I come back to what I was saying
15 previously, is I think one needs to hypothesise
16 a situation where there would be more effective
17 competition and, therefore, what can we tell about the
18 level of value that people attach in the presence of
19 that competitive constraint, and that would be
20 informative then.

21 I do not disagree with Dr Majumdar that sort of
22 there would be considerably more value that is held by
23 the NHS and patients for this product, and that is
24 a sort of external view of value, and then the question
25 is sort of what is it reasonable to pay for that?

1 PROFESSOR WATERSON: Right, thank you. So yes, I think we
2 have established that the market, if we call it a market
3 for pharmaceuticals, is somewhat different from the
4 market more generally, or what we think of as a market
5 more generally.

6 Now, you may or may not have had in mind already my
7 next question, and you may have been speaking about the
8 situation as if we were talking about the next question,
9 but I will just raise it.

10 Remember previously all the companies were charging
11 this maximum willingness to pay price. Now let us
12 assume that the drug is unique in engaging in this
13 practice, in other words, other drugs the NHS would be
14 willing to pay up to £12,000, but for this drug it is
15 charging £12,000, other drugs are not.

16 Would that affect your answer to the previous
17 question? I have forgotten who is first here. It may
18 be Ms Webster.

19 MS WEBSTER: I am happy to go.

20 So I think that does not change my answer in the
21 sense that I would still want to do the two comparator
22 exercises that I spoke about previously, so for the drug
23 in question how does the price that it charged compare
24 to the cost that it incurs in bringing that product to
25 the NHS, and then secondly, how does that price compare

1 to the price that I would expect to result were there
2 competition over the supply of that product.

3 PROFESSOR WATERSON: Thank you.

4 Dr De Coninck?

5 DR DE CONINCK: I think if, I understand correctly the
6 setting and the assumptions now, my understanding is
7 that if there is something unique about the drug it does
8 matter. I mean, under this set-up, we have a fixed
9 budget, we have willingness to pay of 12,000, but
10 somehow there are trade-offs that have to be made, and
11 the NHS cannot pay the hypothesised willingness to pay
12 for all the products. So somehow one has to make
13 trade-offs, and if this is a drug that is practically
14 unique it strikes me as not -- at least it strikes me as
15 defensible to say that, you know, this drug should be in
16 the trade-off allowed to have -- to capture more of the
17 limited budget that is available.

18 PROFESSOR WATERSON: Right, thank you.

19 Dr Majumdar?

20 DR MAJUMDAR: Thank you, sir. I think that not really much
21 of my answer changes in the sense that I would still
22 want to understand the value, and it may be greater
23 given, for example, what Dr De Coninck says about
24 uniqueness and value. For sake of argument, if it was
25 valued at £30,000, then that would be a lot of consumer

1 surplus compared to the 12 that was being charged. So
2 I think in essence my answer stays the same: we would
3 need to understand the various parameters, one of which
4 would need to be the value of the product.

5 PROFESSOR WATERSON: In what sense might it be valued at
6 £30,000?

7 DR MAJUMDAR: I mean, again, I think this goes back to the
8 earlier discussion that we were having. I mean, if --
9 let us say there is an agreed way of valuing
10 a pharmaceutical and putting a monetary value on it.
11 Then that mechanism, be it a QALY or some other
12 mechanism employed, that would give you a -- in my
13 example, £30,000, in which case that would be material
14 compared to the 12,000 and would be a lot of consumer
15 surplus generated.

16 PROFESSOR WATERSON: Right, but then there may be other
17 drugs which are valued more highly which are charging
18 lower prices.

19 DR MAJUMDAR: There may be, but that would not
20 necessarily -- but it would still be the case that this
21 particular unique drug was generating a very large
22 amount of consumer surplus, and so the fact that another
23 drug was priced less than that and generating greater
24 value does not in and of itself mean that this
25 particular price of 12,000, bearing in mind the amount

1 of surplus it is generating, is an unfair price.

2 PROFESSOR WATERSON: Right.

3 Mr Harman?

4 MR HARMAN: I do not think that my answer changes
5 particularly given the assumptions that you have put
6 forward, but, you know, it occurs to me in this
7 budget-constrained example, and touching on value,
8 you know, I would suspect the -- and you will tell me if
9 I am wrong because it is your assumptions -- but the
10 overall budget for the NHS across all drugs tells you
11 something about the aggregate willingness to pay across
12 all drugs, which is quite important, right, because
13 obviously if they valued the drugs more than the budget,
14 then you might say can that be the case, because if you
15 truly valued them at these maximum willingnesses to pay
16 across everything then you would expect the budget to
17 increase to be able to pay for all of the drugs, but
18 because there is a constraint, obviously there is then
19 a difficult question for the NHS to say which of those
20 drugs does it actually value more.

21 That may take you back into a world, into the real
22 world, where you have things like the PPRS that says:
23 well, we are budget-constrained, and, therefore, across
24 all drugs, there is going to be certain limits on our
25 willingness to pay in aggregate. So it is an

1 interesting line of thinking, but I think that the
2 budget is also constraining overall willingness to pay,
3 and then there is a difficult question as to how you
4 then allocate that across all of the drugs, and at the
5 moment, the fact pattern is not sufficient for us to be
6 able to say how one would do that because difficult
7 choices would have to be made.

8 PROFESSOR WATERSON: Right, thank you.

9 Ms Webster?

10 MS WEBSTER: Nothing further to add.

11 PROFESSOR WATERSON: Dr De Coninck?

12 DR DE CONINCK: Okay, maybe I am advancing myself a little
13 bit here, but we are of course talking about what is
14 unfair and if you have a limited budget and you think:
15 oh, some drugs have captured a lot of that, others do
16 not, is that unfair, I think, you know, it is a fair
17 question, but there is also a question about why we are
18 looking at unfairness here and we are looking at it
19 because we are thinking about whether there is an abuse
20 of competition law, and a lot of the questions that we
21 are touching upon here to me seems that they are
22 a little bit related to whether -- you know, you have
23 difficult situations and you would want to bring in
24 regulation rather than is there really an abuse of
25 competition, at least when we are talking about

1 unfairness here, I think it is good to keep that in
2 mind.

3 PROFESSOR WATERSON: So are you saying there is a clash
4 between competition law and the way that drugs might be
5 allocated?

6 DR DE CONINCK: I think competition law cannot solve any
7 problem in the world and some are better addressed with
8 regulation.

9 PROFESSOR WATERSON: I hope we could all agree on that.

10 But on this issue of aggregate willingness to pay
11 which Mr Harman brought up, is that a reasonable view of
12 the world, that the government, not necessarily any
13 particular government, but the government in some sense
14 has made a decision about what the aggregate drugs bill
15 will be and that represents in some way an aggregate
16 willingness to pay for pharmaceutical products? Do you
17 agree with that, Dr De Coninck?

18 DR DE CONINCK: I mean, yes, there are indeed budgets that
19 affect the willingness to pay.

20 PROFESSOR WATERSON: Right, yes, certainly.

21 MR WILLIAMS: I think there is a difference between value
22 and affordability, and we have been talking a little bit
23 about affordability, what the government is prepared to
24 pay in aggregate.

25 Just to give you a little bit of comfort: the

1 government does have mechanisms to control the overall
2 size of the branded drugs budget, and even if individual
3 drugs exceed their budget, there is a clawback mechanism
4 from the industry as a whole, so actually, your company
5 that is making this 12,000 drug that would double the
6 budget is actually not what the Department of Health
7 ultimately will pay. It will recover the excess from
8 the industry as a whole.

9 PROFESSOR WATERSON: Right, in the case of a patented drug?

10 MR WILLIAMS: A branded drug.

11 PROFESSOR WATERSON: A branded drug?

12 MR WILLIAMS: Yes, not in the case of a generic. Equally
13 NHS England have something called their affordability
14 mechanism which is: we can afford this much, oh, you
15 have spent that much, you now need to give us a price
16 discount.

17 PROFESSOR WATERSON: Right, thank you, that is useful.

18 Dr Majumdar?

19 DR MAJUMDAR: I think there are two concepts. The first is
20 if we go back to this point about the Department of
21 Health being the sophisticated single purchaser that
22 purchases on behalf of patients, then, yes, if the
23 Department of Health is constrained by a certain amount
24 that the government has said is the maximum it can spend
25 then, yes, that by definition is its maximum willingness

1 to pay. However, there is a distinction between that
2 and the ultimate value that a patient may receive from
3 consuming a drug, and this is the problem, as I am sure
4 you know very well, with healthcare where you have
5 someone separate paying for the drug versus the person
6 that consumes it. So I just think it is helpful to put
7 those two different concepts out there.

8 PROFESSOR WATERSON: Right, thank you.

9 Anyone want to come back at all or have we exhausted
10 this topic?

11 MR HARMAN: I was just going to add that any demand curve
12 also reflects ability to pay at the end of the day, and
13 I think that is just consistent with the point that
14 I would make in terms of the aggregate budget being
15 informative. Yes, there is always going to be some
16 people who can pay more and are willing to pay more, but
17 in the real world people are unable to pay for things
18 that they demand and, therefore, they do not consume, if
19 they are budget-constrained, so that is obviously going
20 to be a relevant factor.

21 DR MAJUMDAR: Sorry, if I may, apologies for interrupting,
22 apologies. To go back to the point that I was making,
23 even if the Department of Health has a certain cap on
24 how much it can spend, it can still be the case that the
25 value generated to the patient is far in excess of the

1 amount that is spent. So that is just -- if I wasn't
2 clear first time around, just to make it clearer this
3 time around, sir.

4 PROFESSOR WATERSON: Okay.

5 MS WEBSTER: May I add my final thoughts?

6 PROFESSOR WATERSON: Yes.

7 MS WEBSTER: So your question, whether the aggregate
8 willingness to pay is of relevance for understanding
9 whether a price is abusive or not. I think I would
10 separate my answer into two.

11 I think there is what we can tell using economics as
12 our framework and those are the two tests, the
13 comparison against cost plus, the comparison against the
14 price that would result in a competitive market and
15 neither of those would necessarily be affected by the
16 aggregate willingness to pay.

17 Where I think there is that overall budget
18 constraint, then that might become of relevance to then
19 the policy considerations which is the extent to which
20 a price above either comparators or cost plus is one
21 that is going to be considered abusive or not.

22 PROFESSOR WATERSON: Right, so now so far we have had this
23 drug being the only drug that is in this particular
24 area, except for one question where we slightly deviated
25 from that, but now let us assume that the drug is

1 a generic, so it is prescribed generically, and after
2 some time maybe an alternative generic formulation
3 arrives in competition.

4 Now, if we think about the pricing of the other
5 generic, the alternative generic, the second into the
6 market, how would we expect that drug to price? I think
7 we are on to Dr De Coninck.

8 DR DE CONINCK: Well, you have a second competitor entering
9 on the market, so that competitor will obviously take
10 into account the price that is charged by the others in
11 the market because it is a market fact, but how will it,
12 you know, price compared to that one? I think we can
13 see a range of different outcomes in different markets,
14 so I do not think there is generally a rule that tells
15 you exactly, you know, how it will price, but certainly
16 you bring more competition to the market and that is
17 obviously a good thing for the market.

18 PROFESSOR WATERSON: Right, so will it price above, below,
19 equal?

20 DR DE CONINCK: You could have, in theory, everything that
21 is possible, right, depending on the assumptions that
22 you make on how comparable the drugs are, but if they
23 are exactly the same and perceived as such by consumers
24 you would clearly add additional price pressure to the
25 market by adding this second competitor in the market,

1 so below.

2 PROFESSOR WATERSON: So are you now saying that the second
3 one would price below the first one, because otherwise
4 it would not be applying price pressure to the market?

5 DR DE CONINCK: Well, I am not saying that is the only thing
6 you can observe, but I think that is typically what you
7 would expect, at least that this new entrant is going to
8 try to gain shares, and the best way to do that is to
9 price lower, yes.

10 PROFESSOR WATERSON: Right, thank you.

11 Yes, Mr Williams?

12 MR WILLIAMS: Between 10% and 15% below the first.

13 PROFESSOR WATERSON: Right, that is in practice what you say
14 happens?

15 MR WILLIAMS: In practice, yes.

16 PROFESSOR WATERSON: Thank you.

17 DR MAJUMDAR: I would expect the second generic to price
18 below the first generic. How far below I think is going
19 to depend on a variety of factors, so I could not give
20 you a further answer on that without knowing costs and
21 so on.

22 PROFESSOR WATERSON: Thank you.

23 Mr Harman?

24 MR HARMAN: Yes, I mean, I agree that I think the prices
25 would fall. The CMA makes reference in the Decision,

1 the remittal decision, a survey or report performed by
2 Oxera that shows that competition in the generic space,
3 obviously not always, but that there tends to be falling
4 prices over time. Those prices could be as -- they
5 could fall by up to 80% over a period. I think it very
6 much depends on the nature of competition entering into
7 the market, how many enter, the size of the market, the
8 costs of entry into the marketplace, will all have
9 impacts on that price profile, and then obviously at
10 some point in time you may then see entry and exit and
11 prices changing even around a competitive equilibrium.

12 But I would expect, if there was no differentiation
13 between these two drugs, there would be strong
14 competitive prices -- pressures to price towards, more
15 towards cost plus.

16 PROFESSOR WATERSON: Thanks.

17 Ms Webster?

18 MS WEBSTER: I would also expect the second generic entrant
19 to price at a discount in order to win sales. I think
20 that would be the first round, if you like, and then the
21 question to what then happens on pricing will be
22 determined by how the originator, the original generic
23 supplier, chooses to respond to that competitive
24 pressure. Does it cede market share or does it seek to
25 hold on to market share, and that will determine, then,

1 how prices then continue to develop in the market,
2 whether they somehow stabilise with a notion of the
3 market being shared in terms of quantity between them,
4 or whether actually there is continued price competition
5 that takes prices lower and lower.

6 As Mr Harman has mentioned, I think the Oxera study
7 has pointed to a situation where more suppliers in the
8 market would tend to -- sorry, the number of generic
9 entrants that come in would then tend to destabilise any
10 extent to which the market is shared and prices would
11 fall more quickly.

12 PROFESSOR WATERSON: Right, thank you. I will come back to
13 another aspect of this, but let us now assume that,
14 without discussing the mechanism for the moment, that
15 pharmacists are incentivised to substitute this
16 alternative because it is cheaper for them to buy.
17 However, patients and GPs are unhappy about this. What
18 is likely to happen in this situation? Does that
19 influence the situation at all?

20 Dr Majumdar?

21 DR MAJUMDAR: Just to check I am clear, so pharmacists are
22 incentivised to switch but patients and GPs prefer the
23 first generic?

24 PROFESSOR WATERSON: Yes.

25 DR MAJUMDAR: So this will depend then on the prescribing

1 patterns. If I understand correctly we are talking
2 about two generics which means that if a GP has no
3 choice but to have an open prescription, that, as
4 I understand the process, would mean a pharmacist could
5 choose whichever generic it wished to prescribe, and so
6 the pharmacist may, given it is incentivised to do so,
7 provide the cheaper one.

8 I am unaware the extent to which, in your example,
9 a GP or a patient is able to say, well, actually, no, it
10 is this particular generic that the patient wants to
11 prevent that happening. I am also unaware the extent to
12 which a patient can say to the pharmacist: I strongly
13 prefer this one, can you prescribe me that one? So
14 those are the possible outcomes.

15 PROFESSOR WATERSON: Right, thank you, that is useful.

16 Anyone want to come back on that?

17 Mr Harman?

18 MR HARMAN: I am not sure that I have something more to add
19 on the question, I think it very much depends on the
20 extent to which consumers and doctors are able to
21 influence the pharmacies. If the issue is around price,
22 as I understand it, then one might expect that there
23 would be a demand shift towards the pharmacy-preferred
24 generic which then may lead to a response from the
25 originator generic, and then you may have systems,

1 a dynamic system of where the pharmacy switches from one
2 generic to the next, if it is only on the basis of
3 price, that is their preference.

4 PROFESSOR WATERSON: Right.

5 Ms Webster?

6 MS WEBSTER: I think I would agree with the way in which
7 Dr Majumdar describes it. So the pharmacies have the
8 incentive to switch, as you describe, and then if
9 patients and GPs are unhappy with that, then that
10 depends on the framework within which they can exercise
11 that or make that preference known and then what
12 happens, but that is sort of outside of my area of
13 knowledge.

14 PROFESSOR WATERSON: Nothing to add? No.

15 In practice, there is another stage in this:
16 wholesalers who buy the drugs from the manufacturers and
17 sell to pharmacists. Will wholesalers -- or will adding
18 in that stage, if you like, into the framework, will
19 that change matters at all or not, would you say?

20 DR MAJUMDAR: So we are still in a world where the
21 pharmacists are incentivised to go for the cheaper
22 generic?

23 PROFESSOR WATERSON: Yes, I am exploring more why the
24 pharmacists are incentivised to go for the cheaper one,
25 yes.

1 DR MAJUMDAR: Well, if they are incentivised to go for the
2 cheaper ones presumably that is because they benefit
3 from the lower price. I do not know if there is
4 a reimbursement mechanism in your example as well, but
5 that might be one reason, for example, for a given
6 reimbursement, then the lower the price, the greater the
7 value -- the amount, left to the pharmacist, so your
8 question is does introducing wholesalers into that
9 equation matter. Well, they will need to recover their
10 costs and a reasonable margin, but beyond that, it is
11 not obvious that actually introducing that extra level
12 makes a lot of difference.

13 PROFESSOR WATERSON: Right, thank you.

14 Mr Harman?

15 MR HARMAN: I do not have anything to add.

16 PROFESSOR WATERSON: Ms Webster?

17 MS WEBSTER: I do not think it would make a difference.

18 PROFESSOR WATERSON: Dr De Coninck, no?

19 I think -- I do not know whether you would agree
20 with me, but let me explain how I see things happening.
21 That is that, in a sense, the wholesalers and the
22 pharmacists are playing a sort of game, if you like,
23 with the system. That is they spot a gap between the
24 drug tariff price and what they can buy the product for,
25 so then eventually the drug tariff price will fall, and

1 so there is then further pressure, presumably, on behalf
2 of the wholesalers to see whether someone is willing to
3 supply more cheaply than that, and so on.

4 Is that how you see the market? You were nodding,
5 Ms Webster, so ...

6 MS WEBSTER: In the way that I have understood the operation
7 of the drug tariff, I think that the description that
8 you provide makes sense to me.

9 PROFESSOR WATERSON: Right, thank you.

10 Anyone else?

11 Yes, certainly, Mr Williams?

12 MR WILLIAMS: Obviously there are three categories of the
13 drug tariff. Category C does not reflect underlying
14 average selling prices from wholesalers or from
15 manufacturers. Category A does reflect list prices of
16 the two major wholesalers, and two of the major generic
17 companies, and category M does reflect ASPs. So in
18 general you would expect that if ASPs in the market were
19 going down, you would expect category A and category M
20 prices in the drug tariff to go down as well.

21 PROFESSOR WATERSON: Right, okay. And category C, remind
22 me?

23 MR WILLIAMS: Category C is products where generics are
24 generally not available. Lots of branded generics might
25 be, but there may not be any pure generic generics in

1 category C.

2 PROFESSOR WATERSON: This is a somewhat subtle difference,
3 but --

4 MR WILLIAMS: It is and it makes it even more complicated
5 when a generic generic with a company name is still
6 a generic generic in the title.

7 PROFESSOR WATERSON: Thank you.

8 You may be able to help me understand this more.

9 There are these three categories, C, A and M. To what
10 extent would generics be in which one or other of them?

11 MR WILLIAMS: It is an interesting question and there is no
12 hard and fast rule. Let us deal with category C, that
13 is probably the easiest. That is where there probably
14 are not any generic generics.

15 PROFESSOR WATERSON: Right.

16 MR WILLIAMS: Branded generics, yes, originator brands, yes,
17 but no generic generics.

18 Category M has to meet certain criteria. They tend
19 to be what I would call the large prescription volume
20 generics. There are over 600 of those, sort of -- it is
21 typically commodity generics where most pharmacists will
22 be dispensing quite a lot of packs, and, therefore,
23 there is not just a volume criteria in terms of number
24 of prescriptions per year, but there is also an NHS
25 spend criteria, and you would then perhaps go into

1 Category M for that reason.

2 Category A is the rest, there will be generics
3 generally available, it does not mean from more than one
4 supplier, but there is no shortage of them, and they
5 have to be available from two -- the two major
6 wholesalers or one of the major wholesalers and two of
7 the generic companies, Teva and Actavis.

8 So there are broad definitions, but you can always
9 spot products that are in the wrong category and
10 say: why are they there? You can ask the Department of
11 Health and they will decline to tell you why they are
12 there other than they have their reasons.

13 PROFESSOR WATERSON: Right. So in the category M
14 essentially what you are saying is that wholesalers,
15 because there are at least two wholesalers, that the
16 wholesalers will provide competitive pressure on the
17 drugs manufacturers?

18 MR WILLIAMS: That is in relation to category A.

19 PROFESSOR WATERSON: Oh category A, sorry.

20 MR WILLIAMS: Yes, but equally in category M there
21 is pressure on wholesalers obviously because once you
22 have a fixed reimbursement price whether it is an A, C
23 or an M, the pharmacist is incentivised to buy at the
24 most economic price because the gap, little or big, the
25 pharmacist keeps, and clearly the wholesaler, many of

1 which are vertically integrated with pharmacies, has an
2 incentive to buy as cheaply as possible, because then he
3 can offer his pharmacy customers a good price which
4 enables them to make a profit. So there is definitely
5 downward pressure from pharmacy and from wholesaler on
6 manufacturer.

7 PROFESSOR WATERSON: Right, thanks very much. Anyone want
8 to come back on any of that?

9 No, that is very useful. Good.

10 Now, we are going to move to a different topic which
11 is my diagram, this one you will remember. {X0/16}.

12 This one is not meant to capture a pharmaceutical
13 market. This is because the demand curve which is the
14 outer curve clearly has a slope and so different people
15 are willing to pay different prices, and there are many
16 buyers by assumption represented on that demand curve.

17 Now, there are two vertical stages here: stage A
18 sells to stage B who sells to consumers. So if we think
19 about -- and just for simplicity, stage B does not face
20 any additional costs. We could put those in but it
21 would complicate the diagram unnecessarily. Stage B
22 does not face any additional costs, so stage B is simply
23 trying to make its profit as a monopolist from the gap
24 between the price that it buys and the price that it
25 charges in the market.

1 So stage B is whatever price stage A sets, stage B
2 will consider that to be its marginal cost, and,
3 therefore, since -- and then it will set marginal
4 revenue equal to that marginal cost, and, therefore, as
5 far as stage A, the upstream stage, is concerned, the
6 demand curve that faces it is the marginal revenue curve
7 of stage B because that answers the question at what
8 price, how much would you be willing to sell.

9 So stage A is also a monopolist, and so stage A sets
10 the curve marginal to that equal to its marginal cost,
11 and so the upshot is that the quantity that goes through
12 to the final market is what I have represented as q_B in
13 the figure. The final price is P_B . The downstream
14 monopolist, B, makes its profit from q_B times the gap
15 between P_B and P_A , and the upstream monopolist makes its
16 profit from the gap between P_A and C multiplied by q_B .
17 So that is a situation of two successive monopolies.

18 Now, thinking about this, the first question that
19 comes to mind is, is this situation optimal from these
20 firms' point of view. Where have we got to? I think it
21 is probably Dr Majumdar.

22 DR MAJUMDAR: Sir, from these firms' point of view, it is
23 not optimal. They would prefer to behave jointly
24 because that would lower -- that would lower the price
25 increase output and increase their joint profit.

1 PROFESSOR WATERSON: Right, thanks.

2 Are others agreed on that point?

3 DR DE CONINCK: Yes.

4 PROFESSOR WATERSON: Good. Okay, so how in practice would

5 they action that? I mean, let us assume that they are

6 not allowed, and have not been -- and are not going to

7 be accused of colluding. How would they action that in

8 practice?

9 DR MAJUMDAR: To me again?

10 PROFESSOR WATERSON: Yes.

11 DR MAJUMDAR: Okay. Well, they could do that in different

12 ways. They could have an agreement that a certain

13 amount would be supplied by A to B equal to qJ , for

14 example, that would be one way of doing it. They could

15 have a situation where A, the upstream firm, supplies at

16 marginal cost and then takes a fixed fee, so they can

17 have a two-part tariff. There are different ways the

18 economic literature deals with this. I mean, I would

19 emphasise I think you said right at the beginning of

20 this example this is very different from the capsules

21 case that we have before us.

22 PROFESSOR WATERSON: Yes.

23 DR MAJUMDAR: Yes.

24 PROFESSOR WATERSON: Can others think of ways in which this

25 might be actioned in practice?

1 MS WEBSTER: I am not sure whether this is ruled out by your
2 assumption they are not allowed to collude. If they
3 were to come together to be a vertically integrated
4 company then this issue would clearly go away, that
5 would be one way to action it.

6 PROFESSOR WATERSON: Yes, they could agree to merge?

7 MS WEBSTER: Exactly.

8 PROFESSOR WATERSON: Yes, and that would certainly be one
9 possibility.

10 Dr De Coninck, do you have any other suggestions of
11 how they might?

12 DR DE CONINCK: You could think of different ways to
13 structure the agreements that limit the price that
14 company A charges to company B, at least at the marginal
15 level.

16 PROFESSOR WATERSON: Right, okay. Actually, my favourite
17 example of this I should say is quite an old paper by
18 Paul Joskow, who as you know has worked a lot in the
19 electricity industry, and it is obviously an old paper
20 because he discusses mine mouth electricity plants and
21 the various ways in which those have dealt with this
22 problem, which is a problem for, I think you would
23 agree, for both firms, yes?

24 Dr De Coninck?

25 DR DE CONINCK: Sorry, I did not quite understand.

1 PROFESSOR WATERSON: This is a problem for both firms, the
2 fact that quantity is pushed back so much that they are
3 making less money than they could.

4 DR DE CONINCK: Absolutely.

5 PROFESSOR WATERSON: Good. We can see that in the diagram
6 because we can see that the upper box, PB minus PA times
7 q_B is smaller than the box PA down to C to the right or
8 page A down to C to the right of the gap between q_J and
9 q_B , and, therefore, there would be more total surplus
10 for them if they were able to make some arrangement.
11 Also, incidentally, consumers would be better off.
12 I think we can see from the diagram.

13 Now let us think about this in the context of the
14 demand curve that we were talking about for
15 a pharmaceutical product and think about whether -- so
16 remember that demand curve was vertical up to the point
17 of £12,000 in the example. So there is not an
18 elasticity in the demand curve, the final demand curve,
19 that we see here. How would that affect the analysis?

20 Mr Harman, I think we are probably back to.

21 MR HARMAN: Is the price still constrained at the
22 willingness to pay at --

23 PROFESSOR WATERSON: Yes.

24 MR HARMAN: I think that it is complex. I think that the
25 upstream company is potentially obviously incentivised

1 to maximise its profits first because there is no change
2 in demand in doing so, so long as it leaves the
3 wholesaler, the downstream company here sufficient
4 profits to remain in business. So my assumption is that
5 it increases potentially the market power of the first
6 company in the chain.

7 PROFESSOR WATERSON: Right, okay. Why the first company?
8 Why not the second company?

9 MR HARMAN: Well, assuming that -- well, I would say the
10 first because I am selling my product, I know that there
11 is inelastic demand and therefore a rational company
12 downstream from me, as long as it can make a profit,
13 should pay my higher input price so long as they are
14 then able to make a profit on their activities
15 themselves.

16 PROFESSOR WATERSON: Right, okay. So the transfer price, if
17 we can call it that, would be undetermined ex ante, is
18 that right?

19 MR HARMAN: I think at the margin what you might say is if
20 it was able to determine the costs, and obviously it
21 knows the demand curve, it can construct what it thinks
22 the price that the company is willing to pay, almost
23 like a retail minus type of situation where you know the
24 price is 12,000, you could estimate the costs of the
25 company using comparables, understanding what

1 a reasonable return is, in effect, developing a cost
2 plus for that entity, and then you could price up to
3 that point such that your input price plus that cost
4 plus is equal to the 12,000.

5 PROFESSOR WATERSON: Right, thanks. So supposing that that
6 firm, the downstream firm, is the only potential seller
7 of this product, you know, for some reason the upstream
8 firm is not able to sell it directly to the NHS, so it
9 has to sell it to that second firm. How would that
10 change matters if at all?

11 MR HARMAN: Well, I think that if you have a situation where
12 there is both buyer and seller power of negotiation will
13 come into it, and I think that on that basis the outcome
14 would not be at the highest transfer price, it would be
15 at some point below, but I think that it would depend on
16 the strength of the two companies.

17 PROFESSOR WATERSON: Right, thank you.

18 Ms Webster, you are nodding again?

19 MS WEBSTER: Yes, I would agree with the way that Mr Harman
20 has described it.

21 PROFESSOR WATERSON: Thank you. In both aspects, both in
22 the case where, by assumption, the downstream firm has
23 little market power and in the alternative case where
24 the downstream firm has some bargaining power?

25 MS WEBSTER: Yes, that is right. So where the downstream

1 market is competitive, then it would be necessary for
2 the upstream firm to leave sufficient margin that it
3 becomes attractive for the downstream operator to take
4 on the contract to do the downstream distribution.

5 PROFESSOR WATERSON: In the case where the downstream firm
6 is also the only seller?

7 MS WEBSTER: Then it would become a bilateral negotiation
8 where the outcome would be determined by the relative
9 bargaining strengths.

10 PROFESSOR WATERSON: Thank you.

11 Dr De Coninck?

12 DR DE CONINCK: Just trying to get back to the initial
13 question, the way I understood it, and maybe you can
14 help me on that, but I think you were wondering about
15 inelastic demand and how this affects this graph.
16 I think the fundamental inefficiency that comes from
17 double marginalisation is driven by the reduction in
18 output that it brings, and, therefore, if you have
19 demand that is inelastic and you do not observe this
20 reduction in output that would limit this -- you do not
21 have this output effect and efficiency that comes with
22 it.

23 PROFESSOR WATERSON: All right, thank you.

24 Dr Majumdar?

25 DR MAJUMDAR: Thank you. So, again, I think the original

1 question then is what happens to this type of scenario
2 in an NHS purchasing drugs world --

3 PROFESSOR WATERSON: Yes.

4 DR MAJUMDAR: -- with vertical demand. In that scenario we
5 firstly have no output restriction, so there is no
6 double marginalisation that occurs, the output is
7 determined by where demand is, so there is no output
8 reduction. In terms of where the final price is, that
9 will depend on factors like regulation. So to give
10 a real life example, double marginalisation predicts
11 that the price is not just at the monopoly price, but
12 actually it is above the monopoly price, so in capsules
13 I estimate the monopoly price to be about £46, and
14 Flynn's price was about £18, so we are not even at the
15 monopoly level there, there is a very, very large gap
16 between the monopoly price and the actual price.

17 What does that mean? It means that there are other
18 factors that may be going on in a market, in an NHS
19 market such as benchmarking and a decision to come in
20 with a price that is below willingness to pay because it
21 is benchmarked against, for example, another drug
22 tariff, tablets, for example.

23 So there are --

24 PROFESSOR WATERSON: I have not brought tablets into the
25 picture.

1 DR MAJUMDAR: Understood, but I am making the point that
2 there are -- because now we are talking about a world of
3 the NHS and vertical demand. There are other factors
4 that may come into play that determine where the final
5 choice is made by the downstream firm as to where the
6 price is set. That is the point that I am making.

7 PROFESSOR WATERSON: Right.

8 DR MAJUMDAR: I mean, in principle, another reason why one
9 moves away from this diagram is that this diagram
10 assumes that firms just set a single price, and what we
11 know in the pharmaceutical industry, or rather here in
12 terms of the -- well, yes, let us talk about pharma more
13 generally, is that distributors negotiate typically on
14 a customer by customer basis, and so that would -- so
15 you would not necessarily have a single price, but if
16 you have customer by customer negotiations that would be
17 another factor that would lead to greater output, for
18 example.

19 PROFESSOR WATERSON: You raise a point there that we have
20 been assuming, just for simplicity, that the NHS is
21 a single buyer, but in practice, it is not a single
22 buyer.

23 DR MAJUMDAR: I think it depends on whereabouts we are
24 talking in terms of the supply chain. So the NHS is
25 a single buyer when it comes to determining where the

1 drug tariff reimbursement price is, so that is key
2 point. Then what we say is above that, there is still
3 some surplus for the NHS. Below that, that is the
4 amount that is in play for pharmacies, for wholesalers,
5 for distributors, manufacturers. So below that drug
6 tariff level there is scope for these customer by
7 customer negotiations, indeed, those are precisely in my
8 opinion what led to the sharp price falls in tablets,
9 for example.

10 So, yes, there is scope for customer by customer
11 negotiation in these markets when we look at that level
12 of the supply chain, distributor to pharmacy.

13 PROFESSOR WATERSON: Thank you.

14 Just taking you further, I think Mr Harman pointed
15 out that if there is some bargaining power at both the
16 upstream and the downstream stage in this market, then
17 we cannot determine ex ante where the transfer price
18 would be, but it would reflect the relative bargaining
19 strengths of those two players.

20 DR MAJUMDAR: Here we are talking about the upstream
21 monopolist in your example and the downstream, so
22 supplier A and supplier B and how they, for a given
23 output determined by vertical demand, and for a given
24 surplus, ie the difference between the price and cost
25 multiplied by that demand, how they allocate that. Yes,

1 so I think what economics says is that where that
2 division ends up is going to -- in a bargaining model at
3 least -- depend on the relative bargaining strengths of
4 each firm.

5 PROFESSOR WATERSON: Right, thank you. Does anyone want to
6 come back on that point or have we exhausted that?

7 Now, I am going to make a further nuance on this
8 example. After five or ten minutes it will probably be
9 time to have a break but I am just wanting to carry on
10 with the example for the moment.

11 As far as the final seller is concerned, I have said
12 that it was also a monopolist. However, I am going to
13 change that assumption. I am going to say that
14 a partial substitute for the final product is available
15 from the same supplier, that is A in this example, from
16 the same supplier through a back door route to
17 pharmacies. What would you expect to happen in that
18 case? I think we are probably at Ms Webster.

19 MS WEBSTER: Okay, so to make sure I have understood the
20 set-up, we would have downstream firm B going to make
21 its sale to the pharmacy, and the pharmacy would know
22 that -- sorry, when B goes to the pharmacy, it is
23 selling upstream product A; when it gets to the
24 pharmacy, the pharmacy says: well actually I can get A
25 through another route. So, therefore, what B would then

1 be able to charge will be constrained by the price at
2 which the pharmacist can access A through this
3 alternative route.

4 So I would need to know sort of how effective that
5 alternative route is for A getting to the pharmacist and
6 the price at which A can get to the pharmacist, and then
7 that would determine what B would be able to charge.

8 PROFESSOR WATERSON: Thank you.

9 Dr De Coninck?

10 DR DE CONINCK: No, I agree with that.

11 PROFESSOR WATERSON: Dr Majumdar?

12 DR MAJUMDAR: Agree.

13 PROFESSOR WATERSON: Okay, so then what would you expect B
14 in this example, what would you expect B to do? It is
15 losing some of its market, it is being constrained on
16 price by this backdoor route. How might it react to
17 that?

18 Dr De Coninck?

19 DR DE CONINCK: I would expect it to reduce its price given
20 the competition that arises from this backdoor route.

21 PROFESSOR WATERSON: Yes, it would reduce its price.

22 Anything else do you think would happen?

23 DR DE CONINCK: Okay, so --

24 PROFESSOR WATERSON: It has previously agreed the price
25 with A.

1 DR DE CONINCK: Yes, indeed, so you mentioned that there is
2 this additional competition from A. Of course -- sorry,
3 coming from the backdoor route, so the original --
4 assuming the original agreement was made, you know, for
5 the input price without taking that into account,
6 I could assume there could be some attempt at
7 renegotiation for the input price that is charged.

8 PROFESSOR WATERSON: Dr Majumdar?

9 DR MAJUMDAR: Yes, I agree, B could either lower its price
10 and/or seek to negotiate a lower input price from its
11 upstream supplier.

12 PROFESSOR WATERSON: Mr Harman?

13 MR HARMAN: Yes, I agree. Just one caveat on that: I think
14 the ability of B to lower its price will obviously
15 depend on the price through the back door, right, so it
16 may actually find itself that lowering price it is
17 unable to recover its costs, forcing it, obviously, to
18 renegotiate. If it could not renegotiate, then my
19 assumption is that it would exit the market if it was
20 not earning its required return, subject to contract,
21 you know, requirements.

22 MS WEBSTER: Nothing to add.

23 PROFESSOR WATERSON: So people are agreed on this point.

24 Right, so I think at that stage, as I say, I think
25 we might take a break.

1 THE PRESIDENT: Very good. We will rise -- it is half
2 past -- we will rise for ten minutes and resume at
3 11.40.

4 (11.30 am)

5 (A short break)

6 (11.42 am)

7 PROFESSOR WATERSON: I am aware that we have not been
8 covering at all closely the topics to inform the hearing
9 of concurrent evidence that was sent to you, although in
10 fact we have covered some of them, but I am now going to
11 come back and ask about some of these topics that we
12 have not really touched upon, and of course except for
13 Dr Majumdar sort of slipping it in, if you like, we have
14 not covered tablets at all.

15 Maybe, Ms Webster, to come to one of those
16 questions, what does the £30 drug tariff price for
17 tablets that was in place between October 2008
18 and March 2016 tell you about excessiveness and/or
19 unfairness of Pfizer and Flynn's reselling prices?

20 MS WEBSTER: So perhaps if I start with my understanding of
21 how that price was derived -- if I might start with how
22 that price was arrived at, so my understanding is that
23 prior to the £30 drug tariff price being set, the
24 price -- the ASPs of tablets set by Teva had increased
25 to a level of £51.25, and that was in 2007, and the drug

1 tariff price associated with that ASP was in the region
2 of £114, and then Teva and the Department of Health met
3 to discuss a new level for the drug tariff price, and as
4 a result of that discussion I think over a period that
5 led to the drug tariff price of £30 being set.

6 So that drug tariff price reflected that discussion
7 between the monopoly supplier of tablets at that time,
8 which was Teva, and the Department of Health, which was
9 in effect a monopsony purchaser, and in my view there is
10 no expectation that that discussion and the price that
11 was arrived at would have necessarily been a price
12 reflective of a competitive price.

13 Because of that, my view is that the drug tariff
14 price does not help us with the question of locating
15 whether capsule prices would have allowed Pfizer and
16 Flynn to earn profits not available under conditions of
17 normal and sufficiently effective competition, and the
18 further thing to add is what we also know is that that
19 £30 drug tariff price was considerably in excess of the
20 actual tablet ASPs that were charged in the market by
21 the three suppliers of tablets during period 3 which
22 indicates to me that the £30 drug tariff price was quite
23 considerably above a level consistent with normal and
24 sufficiently effective competition.

25 I also take the view that the tablet ASPs are not

1 consistent with normal and sufficiently effective
2 competition, but the drug tariff price was further above
3 that.

4 PROFESSOR WATERSON: Thank you.

5 Dr De Coninck?

6 DR DE CONINCK: I think on the drug tariff price I have not
7 said much at all. What I understand is it has been
8 taken into account by Flynn factually as a reference
9 point, and I think that is -- you know, that is one
10 relevant factor considering when you are thinking about
11 a company trying to determine its price taking into
12 account that it does not necessarily at the time have
13 all the information that we now have by looking at
14 a number, you know, of measures, looking at other
15 measures that could be used to determine, you know, what
16 would be the perfect comparator.

17 From what I understand at the time this is one piece
18 of information that Flynn had and had used in its
19 process to determine the price, and in that sense
20 I would think it is a relevant piece of information, but
21 I am not sure I am the best placed to say too much on
22 the drug tariff price.

23 PROFESSOR WATERSON: Right. So you are saying that it was
24 Flynn who looked at this and thought there is
25 a possibility here, and not Pfizer?

1 DR DE CONINCK: I am not saying -- I do not want to make
2 comments about what Pfizer thought or did not think.
3 I think this was something that was known, you know,
4 including by Flynn and so was taken into account in the
5 Decision factually.

6 PROFESSOR WATERSON: Thank you.

7 Mr Williams, perhaps you could help me on two
8 puzzles that I see here.

9 MR WILLIAMS: Yes, sir. I will try.

10 PROFESSOR WATERSON: First of all -- which are practical
11 ones I would say. First of all, why the drug tariff
12 price prior to these discussions was as high as £114,
13 and secondly, how it settled at 30 and then remained at
14 30 for some time?

15 MR WILLIAMS: They are excellent questions.

16 Firstly, you may remember before the break I was
17 talking about the categories of the drug tariff, and for
18 reasons, frankly, in retrospect best known to
19 themselves, and I think admitted by the Department, it
20 probably was not the right place for tablets to be, but
21 that is as may be, they were in category M.

22 Now, Category M is for this large basket of generic,
23 600 or 700 generic drugs, and one of the purposes of
24 category M is to deliver profit to pharmacy.

25 Now, a pharmacy is allowed to make, in England,

1 a sum of £800 million per year of procurement profit, it
2 is called the pharmacy margin.

3 PROFESSOR WATERSON: Right, not just to one.

4 MR WILLIAMS: Yes, so it is across the whole of England.

5 That is earned by pharmacies by selling drugs, as we
6 were discussing before the break, where they are
7 incentivised to buy cheaply and sell at a fixed drug
8 tariff price.

9 Now, a large element of that pharmacy margin is made
10 on category M products where the Department often takes
11 ASPs and adds a margin to those ASPs, and that will be
12 an explanation about why the ASP -- I have not checked
13 the figures, but I am sure Ms Webster was correct,
14 the £51.25 suddenly manifests itself as £114 in the drug
15 tariff, because the delta was the margin that the
16 Department applied.

17 Now, there is no consistency of margin, some
18 products they add a lot of margin, some products they
19 add a little, but that hopefully answers the question
20 about why the drug tariff price of 114 compared to an
21 ASP. The next thing to say is about coming down to 30
22 and why it stuck at 30.

23 The first thing to say is that in my experience --
24 and of course, whilst it is wide, I have not looked at
25 every single drug over the course of the last

1 20 years -- I think this intervention the Department
2 made on tablets was really quite unique. I have only
3 ever seen them do it once before, and that was for
4 a branded drug that happened to have a list price in the
5 UK higher than America, which is a pretty perverse
6 outcome.

7 So I think this is firstly extremely unusual. They
8 did make it clear that they were intervening through the
9 informal process of: I am your only customer, I would
10 like to meet you to talk about price, rather than
11 through Scheme M. Now, Scheme M, which Teva was
12 a member of, did allow the Department to intervene. If
13 it thought normal market mechanisms were not working,
14 and I take that to mean competition was not working, we
15 can intervene to fix a price that we believe does
16 deliver value to the NHS.

17 After a process of negotiation, and again I just
18 read this in the evidence, I was not involved,
19 obviously, at the time, that price was fixed on £30, and
20 the minutes of the -- or the recollections of the
21 meeting, because I do not believe either side maintained
22 contemporaneous minutes, was that that price, £30,
23 I think the expression was, delivered value for NHS
24 patients.

25 So I think that piece goes to the fairness part of

1 your question. So in your question about excessiveness
2 or unfairness for Pfizer or for Flynn, I really am
3 focusing my answer on fairness for Flynn, I am not
4 giving any evidence in relation to excessiveness or
5 unfairness for Pfizer because that is outside of my
6 remit, but I think this does go to the issue of the
7 fairness of the tablets in that it was set,
8 exceptionally by the Department, and was an identical
9 product in terms of, as we know, its therapeutic
10 strength and also its efficacy, so I do think it does
11 provide some guidance.

12 The other question you I think asked is in relation
13 to it stuck around at £30 for an awful long time.

14 PROFESSOR WATERSON: Yes.

15 MR WILLIAMS: Typically I would expect to see category M
16 prices changing, not every quarter, they are only set
17 once a quarter, and they may stay fixed for some several
18 quarters, but this one stayed fixed from 2008 until 2016
19 and I think it is in the evidence to suggest that that
20 was basically a mistake by the Department, that they
21 hardcoded this into their category M model, they
22 said: it is £30, we will have no regard to ASPs, we are
23 just going to stick it at £30 and they realised I think
24 when the CMA spoke to them that that was a mistake and
25 they subsequently changed them, but if I was an external

1 observer looking at that £30 price that was fixed for
2 a period of, you know, eight years, I would conclude one
3 of two things: either there was not an underlying
4 movement in ASPs causing the price to be reduced, or
5 that, if there was, the Department was compensating for
6 that by allowing a higher margin over and above ASP to
7 get to the £30. That is what I would have concluded.

8 PROFESSOR WATERSON: Right, okay. So it originally set it,
9 but then as prices in the tablet market fell, it --

10 MR WILLIAMS: Forgot about it, effectively, yes.

11 PROFESSOR WATERSON: Right, thank you.

12 MR WILLIAMS: But of course, it was not known to either
13 party, or maybe even Teva, that that is what had
14 happened. All they could see is the quarterly drug
15 tariff was £30 quarter after quarter after quarter.

16 PROFESSOR WATERSON: Right, okay, yes, I am just about to
17 give you a chance. Yes.

18 DR MAJUMDAR: Thank you. So in that case I have three
19 points to make in answer to the question. The first is
20 just to very briefly recap what happened to the drug
21 tariff price, second to explain why it is a constrained
22 price, and then third, what the -- to explain the
23 implications of it being a constrained price.

24 So firstly, what happened was in about the 12 months
25 prior to October 2007 the drug tariff was hovering

1 around between £48 and £62. It then shot up to £114,
2 and that seemed to be the trigger that caused the
3 Department of Health to come in, intervene and have
4 a discussion with Teva, after which the drug tariff
5 price went down to £40 to £35 and by October 2008 was
6 £30. So that is the sort of intervention coming in at
7 £114.

8 Now, the second point is that this means to my
9 mind -- and I understand that Ms Webster agrees with
10 me -- that this drug tariff is a constrained price.
11 Now, what that means is the price is below the maximum
12 willingness to pay, it is below the monopoly price. It
13 therefore leaves some consumer surplus above that price
14 available to the Department of Health, it is
15 a constrained price, it already leaves some consumer
16 surplus to the Department of Health above that price,
17 and we can debate just how much that is, but I think we
18 can agree that there is at least some available above
19 that price.

20 The third point, then, is why is that relevant?
21 Well, it means there is already some surplus above it,
22 and if we then compare the impugned price, be that
23 Flynn's price of £18, Pfizer's of £12.55, against that
24 £30 it means that the difference between the impugned
25 prices is generating additional surplus either for

1 wholesalers or for pharmacies or for the Department of
2 Health.

3 So that is, to my mind, the value of the £30. It
4 actually helps us understand certainly a very
5 conservative lower bound for the Department of Health
6 willingness to pay, but it understands the sort of
7 division of surplus, if you like, arising from Flynn's
8 and from Pfizer's prices.

9 PROFESSOR WATERSON: Thank you.

10 Does anyone want to come back on that?

11 Mr Harman? No?

12 Yes, Mr Williams?

13 MR WILLIAMS: It is just worth remembering of course that
14 the actual prices, the list prices of capsules, was 20%
15 below the drug tariff and the ASPs were about 30%, 35%.
16 I think 25% and 35% are the correct numbers. So in
17 other words, if capsules price was linked to tablets and
18 tablets were fair, then I guess one could argue that the
19 capsule prices being less was even fairer.

20 PROFESSOR WATERSON: Right. As you have explained, there is
21 essentially a big difference between capsules and
22 tablets in that they were in different schemes. Is that
23 correct?

24 MR WILLIAMS: It is true to say that tablets were in
25 Scheme M, and capsules were not in a scheme at all,

1 albeit both Teva and Flynn were in the PPRS, but that
2 applied to their branded portfolio.

3 PROFESSOR WATERSON: Right.

4 MR WILLIAMS: But of course, it was not under Scheme M that
5 the Department intervened with Teva, it was on the "come
6 and talk to me I am your main customer and I am
7 unhappy".

8 PROFESSOR WATERSON: Yes. I understand that point, but I am
9 just questioning whether we can make a direct comparison
10 given the different schemes or lack of scheme that they
11 were in.

12 MR WILLIAMS: Sir, are you referring to schemes or
13 categories within the drug tariff?

14 PROFESSOR WATERSON: Sorry categories, yes.

15 MR WILLIAMS: Ah yes, yes, they were in different -- I was
16 about to make the same mistake -- categories of the drug
17 tariff.

18 PROFESSOR WATERSON: Does that matter?

19 MR WILLIAMS: I do not think it matters in terms of
20 assessing comparative value. Clearly I believe that
21 capsules were in category C and tablets were in
22 category M.

23 PROFESSOR WATERSON: Right, okay, but that is just from your
24 point of view a fact of life.

25 MR WILLIAMS: Yes, I do not think it goes to the issue of

1 value or makes the comparisons unwieldy or unworkable.

2 PROFESSOR WATERSON: The fact that the product -- there is
3 this thing about branding and what is a branded product.
4 Maybe you could remind us of the actual situation for
5 Flynn's product.

6 MR WILLIAMS: Flynn's product was a generic, albeit
7 a generic that was identifiable by a unique identifier.
8 So a brand is a product that has an invented name,
9 a generic is a product that does not, it just has the
10 international nomenclature, but you are allowed to add
11 your company name without it becoming an invented name,
12 and this is our categories we have been talking about:
13 a brand is clear to understand, a generic generic is
14 clear to understand, this sort of intermediate that from
15 a legal perspective in terms of pricing is counted as
16 a generic, but is identifiable if a doctor wants to
17 write the manufacturer's name on the script, then that
18 is the product that must be dispensed.

19 PROFESSOR WATERSON: Does this give the producer additional
20 freedoms or benefits in some sense?

21 MR WILLIAMS: If he can ensure that all prescriptions carry
22 his brand name that would give him certain advantages
23 over a generic generic.

24 PROFESSOR WATERSON: Right. It is -- identify you mean?

25 MR WILLIAMS: In other words, identify. The pharmacist has

1 no option but to dispense the uniquely identified
2 brand -- sorry, generic. Sorry, tying me in knots as
3 well, sir.

4 PROFESSOR WATERSON: Thank you.

5 Now, Dr Majumdar made several points there in
6 discussing this situation. Does anyone want to come
7 back on any of those points?

8 MS WEBSTER: Yes, if I may make just one point, which is
9 Dr Majumdar describes the existence of consumer surplus
10 above the £30 drug tariff and then similarly, therefore,
11 makes the point one can assume that because Flynn's
12 price was below that drug tariff price there would
13 equally be consumer surplus above Flynn's price, and he
14 concludes from that, I believe, that that is relevant
15 for considering whether the price is abusive.

16 I think I would disagree with that in the sense that
17 those two points that Dr Majumdar raises do not help us
18 understand the extent to which -- and they do not answer
19 the question whether in pricing in the way that it did
20 to pharmacies and wholesalers Flynn was able to reap
21 these benefits which would not have been available had
22 competition been working well.

23 I think that is the point that I would like to raise
24 in addition.

25 PROFESSOR WATERSON: Anyone else?

1 Yes, Dr Majumdar, do you want to come back?

2 DR MAJUMDAR: I think it is relevant because ultimately if
3 we are interested in understanding what -- so
4 competition seeks to deliver lower prices and lower
5 prices deliver consumer surplus, so understanding that
6 the consumer surplus exists and it is, on the face of
7 it, quite large seems to me relevant, because we are
8 never going to have perfect pieces of information on
9 workable competition. It is a sort of map of putting
10 together what the evidence says, and it strikes me that
11 having evidence -- and I would say it is quite clear
12 given that we have agreement that this drug tariff price
13 of £30 is a constrained price, I think that is useful
14 evidence, and it is important evidence that one would
15 take into account when assessing the fairness of the
16 prices.

17 PROFESSOR WATERSON: But you are not saying that the fact
18 that prices for tablets, let us say, the prices for
19 tablets that say Teva charges are below £30 to
20 pharmacies, you are not saying that that gives the
21 ultimate consumer surplus, because the ultimate consumer
22 is paying the £30.

23 DR MAJUMDAR: What I am saying is that the -- let me repeat.
24 I am saying that there are different levels of surplus.
25 So above the £30, that will be surplus to the Department

1 of Health because the fact that £30 is a constrained
2 price means that the Department of Health has
3 a willingness to pay in excess of £30, so there is
4 surplus there for the Department of Health.

5 The difference between, say, Pfizer's £12.55 or
6 Flynn's £18 and the £30 is surplus in the sense that it
7 is surplus available for those further down the supply
8 chain, so that could be wholesalers, it could be
9 pharmacies or it could be the Department of Health, so
10 in that sense it is additional surplus available for
11 those further down in the supply chain.

12 PROFESSOR WATERSON: Right, but if we think -- as you say,
13 if we think about surplus to the Department of Health
14 then the £30 is what is relevant, not those other
15 prices?

16 DR MAJUMDAR: Well, the --

17 PROFESSOR WATERSON: Because the pharmacies need themselves
18 to make a margin.

19 DR MAJUMDAR: Yes, I agree. I mean, if one is only focusing
20 on surplus to the Department of Health, then one would
21 look at the drug tariff which was originally 22.50
22 I think for Flynn and then it dropped to 18 which is
23 again substantially below the £30 benchmark.

24 So if one only was looking at surplus to the
25 Department of Health, I would agree we would need to

1 look at the drug tariff, so 22.50 or 18 versus 30, but
2 I would say that if the impugned price is say a Flynn
3 price then we are still interested in the surplus it is
4 generating for wholesalers and pharmacies further
5 downstream. It is not obvious to me why we would
6 exclude them from our assessment of available surplus
7 downstream. That would be my point.

8 PROFESSOR WATERSON: Right, but we know that presumably in
9 all pharmaceutical products that there is a gap between
10 what the manufacturer or final stage of that charges and
11 the drug tariff. So, I mean, that is not something
12 special to these cases, either tablets or capsules. Is
13 that right?

14 DR MAJUMDAR: Yes, I would agree that there has to be room
15 to allow the wholesaler and the pharmacy to cover their
16 cost, and hence there will be typically a gap between
17 the distributor price and the drug tariff price, I would
18 agree with that.

19 PROFESSOR WATERSON: Right. Does anyone want to come back
20 on that point at all?

21 I think you are all agreed, but tell me if not, that
22 this £30 price is not a normal and sufficiently
23 effective competitive price but simply a constrained
24 price. Is that correct?

25 DR MAJUMDAR: Yes, my argument is not that that is

1 a benchmark for normal and sufficiently effective
2 competition simply, as you say, sir, that it is
3 a constrained price which helps us understand surplus,
4 consumer surplus.

5 PROFESSOR WATERSON: Right, thank you. Good. So I think
6 that is what I wanted to raise on tablets except that
7 I think we have not really fully explored this
8 comparison between tablets and capsules. One thing that
9 has come out is the difference between the category M
10 and category C, but I think that one might want to
11 identify further differences between capsules and
12 tablets. Mr Harman, let us say, do you think there are
13 further differences that we should consider?

14 MR HARMAN: Actually tablets from that perspective is not
15 something I addressed in my evidence as it was not an
16 input into calculating the excess, so there is nothing
17 immediate for me to chip in with.

18 PROFESSOR WATERSON: Right, okay.

19 Ms Webster?

20 MS WEBSTER: Yes, I have thought about this in the context
21 of differences between the two products that might
22 affect the price that would result if competition is
23 working well in the supply of both tablets.

24 I point to one such factor in my report which is the
25 size of the market, so the number of volumes of tablets

1 and capsules sold. The tablet market is significantly
2 smaller than the market for capsules. It is about one
3 quarter of the size.

4 It is possible that the smaller market for tablets
5 would therefore mean that to the extent that there are
6 fixed costs associated with the supply of that product,
7 there would be a smaller volume over which to spread
8 that fixed cost which could mean that under competitive
9 conditions, a higher price is needed to keep the
10 suppliers in the market.

11 I say that as a hypothetical because I have not
12 considered the specifics for the tablets market in that
13 level of detail and so in reaching the conclusions that
14 I do in my report I do not rely on that, but I notice
15 that that could be a factor.

16 PROFESSOR WATERSON: Right, thank you.

17 Dr De Coninck, do you want to add anything on that
18 point?

19 DR DE CONINCK: Sure, yes. So I think -- so we are looking
20 at tablet as a comparator to capsule. Obviously,
21 you know, this is pretty close in absolute terms. Then
22 the question is: can you find differences between the
23 two, and certainly, you know, you can, Ms Webster
24 mentioned one just now. The question for me is whether
25 that would be sufficient to consider that a tablet is

1 not a good comparator for the purpose of this exercise.

2 Now, I think Ms Webster mentioned size and,
3 you know, size can in principle be relevant. I mean,
4 I think that is one factor that could potentially
5 matter, but I think we need to see from what we have,
6 from the evidence in the tablet market, whether we think
7 that there was competition there, and if we do see that
8 I think this provides already pretty good evidence that
9 in a very close market that may not be perfectly the
10 same, but we see competition and we see a margin at
11 a certain level.

12 Now, we can always idealise or build an hypothetical
13 market that would be just as close to capsules but
14 bigger and imagine that there would be more entrants or
15 that costs would be very different, and a lot of things
16 are possible and we can all, you know, think of the
17 perfect comparator, but I think in terms of being a very
18 close comparator I think that is definitely one.

19 PROFESSOR WATERSON: Mr Williams, I know you have written
20 extensively on comparators so you may want to say
21 something on this point.

22 MR WILLIAMS: Thank you, sir. You have quite rightly
23 reminded us that tablets and capsules were in different
24 sections of the drug tariff. Category C prices at the
25 originator list price which effectively was Flynn's

1 price which on a pack size adjusted was £22.50.
2 Category M, as it happened, the £30 was very, very
3 similar to Teva's list price which from the evidence
4 was £29.50. So I think even though they have different
5 letters of the alphabet they are basically equivalent to
6 the list price.

7 The size of the market. I have seen differences in
8 markets, meaning that there is a lack of comparison, but
9 the Teva -- it was not a minute market, it was
10 a £10 million a year market, I do not consider that
11 small.

12 The other issue that does not seem to have been
13 addressed anywhere is the fact that of the four
14 strengths of capsules, two strengths had a fraction of
15 the size of the tablets market, the 25 and 50, and
16 I think the 300 was broadly the same. So that does not
17 seem to have been adjusted for in any calculations that
18 I have seen, but --

19 PROFESSOR WATERSON: That was something I was going to raise
20 shortly.

21 MR WILLIAMS: Sorry if I have jumped the gun.

22 PROFESSOR WATERSON: No, no, no, that is fine.

23 MR WILLIAMS: The other thing to say is that, I mean,
24 I struggle to find a better comparator. I know no
25 comparators are perfect, but if I have got something

1 that therapeutically the only difference -- not that it
2 is a therapeutic difference, the only difference is one
3 is a tablet shape and one is a capsule shape, you know,
4 and they are exactly the same API, they are exactly the
5 same strength and, therefore, exactly the same
6 indication, it seems to me a pretty robust comparator
7 and one that one would dismiss at one's peril.

8 PROFESSOR WATERSON: Thank you.

9 Dr Majumdar?

10 DR MAJUMDAR: Thank you, sir. So I have two points. One
11 about cost, one about value.

12 So in terms of cost, I agree with Ms Webster that if
13 you have a smaller market and if you focus only on cost
14 plus, a smaller market implies that any fixed costs are
15 spread over fewer volumes and hence you would need, all
16 else equal, a higher price to recover them if you focus
17 only on cost plus.

18 My second point is on value. So I understand that
19 tablets and capsules are therapeutically equivalent,
20 I understand that they have the same active ingredient
21 and therefore have the same benefits in terms of seizure
22 control. Now, if that is correct, it seems to me that
23 they are very good comparators in terms of value. It is
24 not obvious to me, for example, why the Department of
25 Health would say it places greater value on a tablet

1 patient versus a capsule patient or vice versa, given
2 the therapeutic equivalence.

3 PROFESSOR WATERSON: Thank you.

4 Do Mr Harman or Ms Webster want to come back on that
5 at all?

6 MR HARMAN: Well, I was just going to make one point, not
7 with respect to prices, but with respect to margins,
8 which is a question that potentially comes up later.

9 I mean, it is my view that, you know, one dimension
10 of the comparator is are they the same in some kind of
11 way, or are they a differentiated product, but when
12 choosing comparators, one also has to have regard to
13 differences in cost structure, which is the point that
14 has been made, and that is well known, and that has
15 a number of dimensions, differences between fixed and
16 variable costs on the one hand.

17 As you will know from my evidence, I believe that
18 both volume and the size of an input cost going in are
19 distorting factors that will influence the comparability
20 between products even if they are the same. If they
21 have different cost structures and different volumes,
22 those are relevant considerations when considering if it
23 is sufficiently comparable.

24 PROFESSOR WATERSON: Thank you.

25 Ms Webster?

1 MS WEBSTER: Yes, just one final point, and it relates not
2 to a difference between capsules and tablets but to
3 a similarity, and because the nature of the drug was so
4 similar, we have the same continuity of supply guidance
5 that applied in relation to tablets as was the case for
6 capsules, and I think that is one reason actually
7 resulting from the similarity that makes tablets
8 a difficult comparator for capsules.

9 PROFESSOR WATERSON: Thank you.

10 Dr De Coninck?

11 DR DE CONINCK: If I can jump in on this point in
12 particular. I strongly disagree with the point that
13 continuity of supply for tablets make them not a good
14 comparator for capsules.

15 Now, I understand -- and this may be qualified, but
16 Ms Webster says that essentially you do not have enough
17 competition because -- oh, you do not have the
18 sufficiently competitive condition there because you
19 have this continuity of supply, but I think the point is
20 you have it for capsules, so why are you looking at
21 comparators in the first place? My view is, well, you
22 would like to know what could be a price that is not
23 excessive for -- in a particular market, and in this
24 particular market, capsules, you have the continuity of
25 supply.

1 So if you would like to consider another market
2 where actually you see some competition but you have
3 also some of the same constraints, I think they should
4 absolutely be taken into account. You are not looking
5 at a perfect ideal market where you have no constraints
6 at all. To the extent that you have constraints on the
7 market of focus, I think it does make sense to consider
8 also comparators that have similar constraints.

9 PROFESSOR WATERSON: Thank you.

10 Mr Williams, of course, mentioned that there are
11 different strengths of capsules and in particular that
12 the 25 and 50 strength capsules do not have a direct
13 comparability with anything in the tablets market. How
14 should we think of those two strengths in relation to
15 the 100 strength, because whether you believe that the
16 100 strength is an ideal comparator or not, it is at
17 least equivalent in terms of its effect?

18 MR WILLIAMS: Sir, you may remember in my teach-in that
19 I put some numbers up in relation to capsules, and
20 I looked at the relative cost per unit of API to see if,
21 you know, these were in line with each other.

22 The 300mg was exactly pro rata priced to the 100.
23 The two smaller strengths were premium priced on an API
24 level, and they were both above the equivalent API of
25 the 300 and the 100, and they were also above the API

1 equivalent of the tablet.

2 I said I found that not unusual. It goes to the
3 issue, perhaps, that has been mentioned already of small
4 production runs. It is very common for small doses to
5 have a higher pro rata cost than large doses. They cost
6 broadly the same to make other than the API content. So
7 I think one needs to look at them: are they out of line
8 with the sort of normal expectation that I would have of
9 a 25 versus a 100. I would not expect it to be
10 a quarter.

11 You take it to its logical conclusion. You might
12 have some that have a very wide dosing regime of 2mg to
13 100. Well, the 2mg is not going to be 1/50th of the
14 price of the 100.

15 PROFESSOR WATERSON: I have forgotten what it is, but that
16 belief by some people that you keep on diluting
17 something and it somehow --

18 MR WILLIAMS: Yes, dilute yourself to zero, I suspect.

19 PROFESSOR WATERSON: Yes. Right, so you would see that
20 difference between the 25 and the 100, just to take that
21 example, as -- I think you mentioned two factors. One
22 was the relative size of the market, and the second was
23 the presumed production difficulty in making a smaller
24 strength available. Is that correct?

25 MR WILLIAMS: Yes, in other words, it is the issue of

1 spreading your fixed costs over a small number of boxes
2 rather than a large number of boxes.

3 PROFESSOR WATERSON: So do you happen to know what the
4 relative size of the 25 market is compared with the 100
5 tablet market size?

6 MR WILLIAMS: That does feature in one of my reports.

7 PROFESSOR WATERSON: Sorry, I must have forgotten it, then.

8 MR WILLIAMS: No, you are the same as me, sir, because
9 I cannot remember. If you would like me to come back to
10 you after lunch on that one I can do so, because it is
11 in there.

12 PROFESSOR WATERSON: Yes, that would be very useful, yes,
13 thank you.

14 So, Dr Majumdar.

15 DR MAJUMDAR: Thank you, sir. I may be able to answer that
16 question, but just before I do, if I may, just one
17 comment on the continuity of supply guidance point that
18 Ms Webster made that I was hoping to have the chance to
19 make.

20 So I do not think that that rules out the use of
21 tablets as comparators at all. To my mind, one should
22 not simply say: well, continuity of supply guidance
23 applied, therefore we rule this out as a comparator. To
24 my mind one looks at the evidence and if we see, as we
25 do, for example, that prices fell by 61%

1 between January 2012 and July 2014 despite continuity of
2 supply guidance being in place, that says to me that
3 there is a healthy element of competition going on.

4 So I would not -- absolutely would not discard the
5 comparator simply because of the existence of the
6 guidance. I think that would be -- I would not put
7 aside that evidence.

8 Now, on your second point, in my first report at
9 footnote 24, I have some evidence there, this is
10 {XE1/4/12}, and the 25mg was 3% of Pfizer's value and
11 10% of Pfizer's volume in case that helps answer your
12 question, sir.

13 So I think what one should do in terms of strengths
14 is focus on the 100mg because that was the most
15 important strength in the market, so as we know, tablets
16 were only 100mg, capsules were primarily 100mg and
17 I think given that the only price that was, if you like,
18 out of sync with the 100 was the 25mg and given that
19 that was only 3% of value I think we can probably just
20 safely focus on the 100 comparison.

21 PROFESSOR WATERSON: Right, but you would accept that the
22 one difference between the 100 formula, format, and the
23 25 or indeed, the 50 format, is that there are no direct
24 competitors for 25 -- even on your analysis of the 25
25 and the 50, whereas there are on your analysis for the

1 100?

2 DR MAJUMDAR: Sorry, so the question is in the capsules
3 market were there competing doses at the 25 and 50
4 level. It is not something I have looked at closely,
5 but to my knowledge there were not. I think NRIM was
6 100mg only, but I must confess that is not an area
7 I looked at. Is that your question, sorry, just to be
8 clear?

9 PROFESSOR WATERSON: Yes. Is that relevant, would you say,
10 Mr Harman or Ms Webster? You may not have been
11 instructed on this area.

12 MR HARMAN: No, but I would just go back to the point that,
13 you know, volumes and cost structures matter, and they
14 will have impacts on prices, and they do have impacts on
15 required rates of return.

16 MS WEBSTER: I would add that what is the case for the 25mg
17 and the 50mg capsules, there is not a comparator in
18 tablets that can be used to inform the fairness of the
19 pricing of those strengths. One still does have the
20 analysis of cost plus, and so to the extent that the
21 factors that Mr Williams was describing -- so you have
22 a different cost structure in relation to those smaller
23 markets -- that would all be picked up, is my
24 expectation, in that analysis of cost plus. So one can
25 assess the impact of the smaller sales volumes of those

1 two strengths, then compare the price relative to that
2 cost plus which reflects that different structure, and
3 so, you know, it is not that there is nothing to judge
4 the excessiveness of those prices against.

5 PROFESSOR WATERSON: Right, thank you.

6 Dr De Coninck?

7 DR DE CONINCK: I think I would say that we are looking at
8 a comparator with the 100mg tablets which is, you know,
9 the most important formulation. That is where we have
10 a comparator, so that informs the assessment and then
11 for the smaller formats for which they will not have the
12 same type of direct comparators we have then to look at
13 whether the price could still be reasonable given what
14 we know about smaller formulations and the comparison
15 that we have made for the 100mg, but I think I would
16 already jump a little bit if I was picking up on the
17 comment that Mr Harman made, so I do not know if now is
18 the right time, but Mr Harman made the comment that cost
19 structure is important and, you know, I of course did
20 not mention that in the previous question, but I agree
21 that cost structure is important but I do not make the
22 same conclusion from that statement as Mr Harman does.

23 So when we go to differences between tablet when we
24 look at Flynn's price in particular then obviously cost
25 structure is different, Flynn has a high input cost.

1 I also think that this is important but not at all in
2 the same way. I think it is important because then you
3 have to somehow control for that high input price that
4 Flynn has to pay, and that is why, in my evidence,
5 I have insisted on the use of margins for the comparison
6 there.

7 PROFESSOR WATERSON: When we were talking earlier, to come
8 back on this point that you have just raised, we were
9 talking about when there are two stages you would
10 imagine some element of bargaining about price. Is that
11 what you have observed in the relationship between Flynn
12 and Pfizer?

13 DR DE CONINCK: I mean, I think there was limited evidence
14 that in my view would suggest that you had of course two
15 parties to a negotiation, and I would think that in that
16 negotiation probably Pfizer had more of the bargaining
17 power, but nonetheless I think what is important in my
18 view is that this price is -- the input cost is
19 essentially taken as a given by Flynn in its pricing
20 decisions.

21 PROFESSOR WATERSON: Mr Williams, you are looking up?

22 MR WILLIAMS: I just have those references for you, sir, if
23 you would like them.

24 PROFESSOR WATERSON: Yes, please.

25 MR WILLIAMS: In terms of the relative -- you know, in terms

1 of pounds sterling terms size of the market, if one were
2 to go to {XE2/6/8}, paragraph 29, that is the financial.
3 So tablets market 41 million, and then if you split the
4 capsules market, the final line of that paragraph, it
5 shows you 12 and 24 respectively for 25 and 50;
6 84 million for the 100, so double the size of tablets,
7 and 52 million for the 300.

8 If you want to put that into relative proportions
9 sold, if one goes to the next page {XE2/6/9}, that table
10 there under paragraph 33 just sets out both the
11 percentages of the total market in the sort of middle
12 column and the relative proportions within the
13 capsules-only market.

14 PROFESSOR WATERSON: Right. Sorry, by the middle column you
15 mean --

16 MR WILLIAMS: Yes, that is the 100 and 300 combined as
17 a proportion of the total market.

18 PROFESSOR WATERSON: Right.

19 MR WILLIAMS: Of the individual strengths of capsules you
20 can see that 72% was made up with 100 going down to as
21 little as 6% made up of the 25s.

22 PROFESSOR WATERSON: Right, yes. These are percentages in
23 terms of quantities of packs?

24 MR WILLIAMS: It is quantities of tablets, yes, so it is not
25 a value base, it is a volume base.

1 PROFESSOR WATERSON: Thank you. That is useful.

2 THE PRESIDENT: Just to follow up on comparators,

3 Mr Williams, why are not capsules inter se comparators?

4 In other words, we see that there is a comparator role

5 between tablets and capsules, but here we have four

6 different dosage strengths of capsules and different

7 prices and different volumes in the market.

8 Can we draw upon those differences to see, well,

9 25mg as a potential comparator for 50 as a potential

10 comparator for 100 as a potential comparator for 300 and

11 if not why not?

12 MR WILLIAMS: Yes, we can. I just need to try and find my

13 teach-in because I have done that comparison, and if you

14 remember I was talking a few minutes ago about the --

15 based on API strength, so I have looked at the cost per

16 milligram for each of those, and I will just need to

17 find the relevant reference. I think that is

18 {XE6/5/10}. It is the table in paragraph 32. So if you

19 just highlight the top of the screen.

20 So I have done that comparison based upon the list

21 price, pence per milligram of API between the 100, 300,

22 50 and 25, and as I mentioned earlier, it is not linear

23 pricing; it is linear pricing of the two larger

24 strengths, the 100 and the 300. The 50 is more

25 expensive per milligram and the 25 more expensive still,

1 and this is because it is very frequent in
2 pharmaceutical markets that the small packs that have
3 small volumes actually command a premium per API price.
4 That is not an unusual phenomenon at all.

5 PROFESSOR WATERSON: The date of this is?

6 MR WILLIAMS: This was at the launch of capsules. This
7 date, in terms of the per milligram cost is at Flynn's
8 launch price when they first launch capsules.

9 PROFESSOR WATERSON: So they launched them, just to check,
10 they launched them all at the same time?

11 MR WILLIAMS: Yes, as far as I am aware, sir, all four
12 strengths were launched simultaneously, to mirror the
13 four strengths that had previously been available as
14 Epanutin.

15 PROFESSOR WATERSON: Thank you.

16 DR MAJUMDAR: Sorry just to be clear because we are looking
17 at Flynn's prices the footnote that I gave you was the
18 equivalent but for Pfizer's prices and what you will see
19 there is that the 100, 300 and 50 are broadly similar in
20 terms of price per milligram. It is only the 25 that is
21 materially different and that is the one that I said is
22 only accounting for 3% of value in the Pfizer case.

23 PROFESSOR WATERSON: Thank you. One other issue that these
24 comparisons between tablets and capsules raises is an
25 issue and I would like to ask the question more broadly

1 about the degree of competition that we would expect
2 given a particular size of market and for example,
3 I think the Oxera study may have talked about this.
4 I do not know whether -- I think we are probably back to
5 Mr Harman.

6 MR HARMAN: Again, this is not an area that I considered in
7 my report, but I can make some observations. I mean,
8 I think that there is a generally accepted link between
9 the size of the market in terms of the number of
10 competitors, there is a link between that and a number
11 of factors.

12 One is the size of entry costs into that
13 marketplace, so there may be difficulties in terms of
14 obtaining the right authorisations, maybe there is high
15 capital costs that had to go into manufacturing the
16 drug, and so on and so forth.

17 Many of those costs will be fixed, so all other
18 things being equal, the higher the entry costs, the less
19 likely the number of competitors there are going to be
20 in the marketplace.

21 So if you took a natural monopoly at one extreme, it
22 would be inefficient for there to be active competition
23 in the supply of water in the UK. There is some
24 regulatory competition around the fringe, but we
25 certainly would not want competing networks delivering

1 water to the same household because the fixed costs
2 would be too high. So that is obviously at one limit,
3 if those fixed costs are high, and volumes, but if fixed
4 costs are high I think the volumes becomes less of an
5 issue, but obviously volume matters because we do see
6 competition in the likes of mobile networks: there is
7 sufficient volumes for there to be competition in the
8 supply of mobile phones.

9 If entry barriers, entry costs, are low and volumes
10 are high, then you would expect there to be more
11 competition in the marketplace, and thinking back to the
12 *Liothyronine* case, there was very much a consideration
13 about whether competition was likely to emerge, and
14 those factors were the identical factors that they
15 considered.

16 They considered that the entry cost into that market
17 were high, the volumes in those markets were low, and
18 therefore it was unlikely to attract the interest of
19 larger pharmaceutical companies because the market was
20 too small.

21 That is not to say you could not get entry if you
22 priced so high that actually it led to inefficient
23 entry, but I would not say that that was a process of
24 normal and sufficiently effective competition playing
25 out in that marketplace, it was because the prices were

1 extremely high.

2 Actually, what we saw in those markets, then, was
3 the small volumes and the high fixed costs led to
4 significantly higher costs per unit and, therefore,
5 higher prices even though prices started to fall but not
6 down to normal levels.

7 So I think that the answer is from one to many,
8 you know, potentially at the limit infinite depending on
9 size of the market and the size of the entry costs as
10 being two of the primary inputs.

11 THE PRESIDENT: Anything to add, Ms Webster?

12 MS WEBSTER: Yes, I would agree with what Mr Harman has just
13 set out. I suppose I am interested in the way you have
14 constructed your question in relation to the degree of
15 competition that might arise given the size of the
16 market, and maybe I am taking a step too far now, but it
17 strikes me that if one is thinking about identifying
18 a comparator market, one might not want to be
19 constrained to think about a market of only a certain
20 size.

21 So one could imagine a market which is so small that
22 there is only space for one firm to operate. That firm
23 can then charge the monopoly price, and I would not
24 think that that would be the relevant place to look for
25 a comparator because the comparator market will deliver

1 a price which is not consistent with effective
2 competition.

3 PROFESSOR WATERSON: Dr De Coninck.

4 DR DE CONINCK: Yes, so if I may just qualify this a little
5 bit. Indeed, so the size of the market is one factor
6 that may affect competition. The question is how does
7 it affect competition. Well, by potentially, possibly,
8 if you have a bigger market allowing more players to be
9 on that market. So, you know, that is one of the
10 channels through which one can have potentially more or
11 less competition depending on the size of the market,
12 but what is, I think, really important when choosing
13 a comparator market that you would consider as being
14 sufficiently competitive is seeing whether you do have
15 several companies active in that market already because
16 if that is the case, the question is: well, do you think
17 there should be even more and that the evidence that you
18 see of, you know, several parties competing is not
19 sufficient, right.

20 So I think based on that I think, yes, size of the
21 market is a factor to consider. If you have a small
22 market and you do not see competition of that market
23 obviously that would be a concern for choosing it as
24 a comparator, but on the other hand if you have a market
25 that is not exactly the size of your focus market but

1 you do see competition on that market, I would be
2 satisfied to use that as a comparator.

3 PROFESSOR WATERSON: Thank you.

4 Mr Williams, do you want to add something on this
5 point?

6 MR WILLIAMS: Just a couple of add-ons for pharmaceuticals
7 specifically. The other constraints are sources of API,
8 that can often be an issue that they just are not
9 available. There is also availability of manufacturing
10 facilities. There are far fewer people that make
11 injectables that make solid dose formulations or indeed
12 that make hormonal products and make solid dose
13 formulations, so those add to the sort of fact that that
14 is why you may not get a dozen new competitors when
15 something comes off patent because those issues have to
16 be -- but I agree, absolutely market size and entry cost
17 must be factored in as well.

18 PROFESSOR WATERSON: Thank you.

19 DR MAJUMDAR: Thank you, yes, three points then. Firstly,
20 I agree that all else equal, a larger market is more
21 likely to allow for entry because any given fixed cost
22 will be spread over greater volumes.

23 Second, I do not think that that means that where
24 you have a relatively small market it cannot be workably
25 competitive. I think one simply has to go and look at

1 the evidence which really brings me to my third point
2 which is that although the tablets market was a smaller
3 market, we do see that the third entrant had a very
4 substantial impact on price, so remember that price was
5 already reduced by 50% by the Department of Health
6 intervention, and then there was a further 61% fall in
7 prices.

8 So to my mind it is really important just to,
9 you know, look at the evidence and that really should
10 inform us in terms of what is workable competition
11 versus what is not.

12 PROFESSOR WATERSON: So is it a puzzle that we see
13 relatively more firms -- well, three firms at some point
14 in the tablet market but only, I think, two in the
15 capsules market, although the capsules market is bigger?

16 DR MAJUMDAR: I do not have a view on that point, sir. My
17 focus and analysis is focused largely into the tablets
18 market so I have not looked into the specifics of
19 competition to the capsules market to such a degree that
20 I could explain why that is the case, sir.

21 PROFESSOR WATERSON: Thank you. Anyone want to -- yes,
22 certainly.

23 MR WILLIAMS: I need to check the chronology, but I am
24 wondering whether the launch of the predecessor of these
25 proceedings may have impacted that in that these

1 proceedings I think followed on -- or the first referral
2 followed on fairly shortly after capsules had entered
3 the market, and if there was therefore some pricing
4 uncertainty about the future direction of capsules
5 pricing as a result of the allegations made, that would
6 certainly be a deterrent effect to people entering the
7 market.

8 PROFESSOR WATERSON: Thank you.

9 Anyone want to add anything on that point?

10 There is a further issue here to do with competitors
11 or lack of competitors in that, in both cases, if
12 someone is initially placed on a particular tablet,
13 a particular manufacturer's tablet, as I understand it,
14 or if someone is placed on a particular manufacturer's
15 capsule, the medical evidence or the medical view,
16 strong view, is that that person should remain on that
17 same capsule or tablet as it may be. Yet we see
18 considerable competition in tablets and, just accepting
19 Mr Williams' point that further competition might have
20 developed in capsules but for this uncertainty, why do
21 you think there is entry taking place in these markets?
22 Maybe you can come in first, Mr Williams.

23 MR WILLIAMS: I think we heard a little bit of the evidence
24 from the professors who spoke to us last week, and we
25 had our Desert Island Discs reference, in that, putting

1 it bluntly, the advice was ignored. It clearly did not
2 seem to create any evidence of an increased number of
3 people having seizures, and it is very clear that
4 patients were swapped considerably when after launch of
5 capsules NRIM went in or out of stock. So I think it is
6 no more complicated than the fact that it was ignored
7 and that doctors did not specify on the FP10, the
8 prescription form, the specific manufacturer through
9 this unique identification, and it was, therefore, left
10 down to pharmacists, some of which would have been of
11 the view, knowledgeable of the evidence and the guidance
12 and made sure that they continued to dispense the same
13 manufacturer's product regardless of the underlying
14 profit, that they would make maybe less, maybe more, but
15 many of them just ignored the guidance and many GPs did
16 too.

17 PROFESSOR WATERSON: So it would provide some constraint,
18 you are saying, because some pharmacists would have
19 taken --

20 MR WILLIAMS: Yes, I am sure it definitely would have
21 applied some constraint. Of course, then you get the
22 situation where NRIM goes out of stock, then they have
23 no choice, but, yes, in terms of there being freely
24 available stock, I am sure there will have been some
25 constraint.

1 PROFESSOR WATERSON: Dr Majumdar?

2 DR MAJUMDAR: Sir, may I just remind myself of the question?

3 Your question, was it why did we see entry in tablets

4 but not in ...

5 PROFESSOR WATERSON: Well, yes, in both cases we saw some

6 entry.

7 DR MAJUMDAR: Yes.

8 PROFESSOR WATERSON: But why is this given the clear advice?

9 DR MAJUMDAR: I see. Well, I think it -- I presume, I do

10 not know, this is a factual question, but I presume it

11 is because the pharmacies were in essence ignoring the

12 guidance and searching for lower prices, and I think

13 that does come out of some of the -- I do not want to

14 opine on facts, but some of the points that are made in,

15 for example, the remittal decision where, for example,

16 Teva has to lower its price to Celesio or Boots by

17 a very substantial amount because Celesio and Boots have

18 been offered a lower price by a competitor. That

19 presumably means they are not sticking particularly

20 closely to the guidance.

21 PROFESSOR WATERSON: Right, thank you.

22 Anything anyone else wants to add on that point?

23 MR HARMAN: It is a factual point that I cannot assist on,

24 sorry.

25 MS WEBSTER: I agree it is a factual point.

1 My reading of the evidence as summarised in the
2 remittal decision is -- I think as Mr Williams describes
3 it, there would have been some wholesalers and
4 pharmacies that chose not to follow the guidance and
5 some who did, so that, I assume, would be a relevant
6 factor taken into account by the entrants.

7 What I would say in addition is when one looks at
8 the trajectory of prices in the tablet market, one sees
9 initially the price reductions for all three of the
10 tablet suppliers as Dr Majumdar describes.

11 One then sees prices for Wockhardt and Milpharm
12 continuing to fall while Teva's stabilise at an earlier
13 point, and then quite a substantial differential opens
14 up between the Teva price and the Milpharm and Wockhardt
15 prices and during that time, Teva maintains a high
16 share, and so when I observe that sort of pattern in the
17 data, I think that is consistent with there being this
18 group of pharmaceutical wholesalers who are adhering to
19 the guidance and not seeking to switch and, therefore,
20 sort of creating a set of captive sales for Teva that
21 are not subject to the competitive pressure from
22 Milpharm and Wockhardt's pricing.

23 PROFESSOR WATERSON: Thank you.

24 Dr De Coninck?

25 DR DE CONINCK: Just very briefly, I think the data for

1 tablet does suggest that there was competition, we have
2 seen it with the entry of Milpharm, the price decrease
3 and volumes taken. So I think I cannot opine on the why
4 but I can certainly say that this is consistent with the
5 guidance not being strictly enforced.

6 PROFESSOR WATERSON: But do you agree with Ms Webster's
7 interpretation of the data?

8 DR DE CONINCK: I think I will just put it in a slightly
9 different way in the sense that my emphasis is the
10 continuity of supply does not seem to be an absolute
11 restriction and constraint in any way, but of course
12 I also am not saying that it has no effect at all on the
13 case.

14 PROFESSOR WATERSON: Right, thank you.
15 Dr Majumdar, again?

16 DR MAJUMDAR: Sorry, you asked a question about
17 interpretation and do I -- well, you asked Dr De Coninck
18 if he agreed with Ms Webster's interpretation of the
19 data. I am not sure I fully agree with it. Perhaps we
20 could go to {XO/12/9}, which is where we can actually
21 see this on a chart, and it might just be worth --
22 hopefully that is the right reference. It should be my
23 teach-in slide 9, which I believe is {XO/12}.

24 MR BREALEY: It is {XE7/5/9}.

25 DR MAJUMDAR: Thank you. Essentially the white background

1 is period 3, and the Teva price is in blue, the
2 Wockhardt price is in green and the Milpharm price is in
3 grey, and we see the sharp price decline at the
4 beginning of the period, we see the continuation of the
5 price decline, and then the period that Ms Webster
6 focuses on is around September 2013 to December 2014,
7 and so I would acknowledge that at that particular point
8 in time one could interpret the data as Milpharm and
9 Wockhardt really putting their foot on the gas and
10 trying to gather customers before the continuity of
11 supply guidance comes in more forcefully. There was
12 a version already of it in place, so one could interpret
13 the data that way, but what is noticeable is that this
14 period is only temporary, and then one goes past the
15 continuity of supply guidance coming in, Teva's price
16 peaks in February 2014, and then it drops down to
17 below £9 while at the same time Milpharm stays more or
18 less where it is.

19 So essentially what Ms Webster argues is that she
20 focuses on this period of time when there is possibly
21 a temporary divergence in pricing strategies, and my
22 argument is that that is inappropriate. Over the period
23 as a whole workable competition is taking place and
24 workable competition allows for strategy, temporary
25 strategy changes. So there is a sharp price fall, then

1 there is a more gradual fall, possibly a temporary
2 strategy change in a few months prior to the continuity
3 of supply guidance, but then a change again as Teva then
4 starts to lower its price again.

5 So to my mind, focusing only on this
6 three-month/four-month period of time, focusing only on
7 the lower prices of Wockhardt and Teva is not only --
8 how to put it? I mean, not only is it slicing the
9 Matterhorn very, very thinly, but it is also shaving
10 quite a lot off the top of it as well, because one is
11 ignoring Teva's price there. So I do not fully agree in
12 short with the interpretation.

13 PROFESSOR WATERSON: She also talked about quantities. This
14 diagram is about prices.

15 DR MAJUMDAR: Yes, so throughout the period I would accept
16 that -- so with quantities, as you will remember from
17 the prior time round, one needs to be a little bit
18 careful looking at short periods of time because the
19 data are quite noisy, but I would accept that throughout
20 this period of time Teva's share was relatively stable,
21 but to my mind the key point is the reason Teva's share
22 was stable was because it lowered its price and, had it
23 not lowered its price by such a large degree over this
24 period, its share would not have been stable. That is
25 the point.

1 PROFESSOR WATERSON: So are you agreeing that the guidance
2 appears to have had some effect on them, giving Teva
3 some advantage?

4 DR MAJUMDAR: I would agree that the guidance would be
5 likely to have limited switching beyond -- relative to
6 a situation when it was not in place, I would agree with
7 that. Whether or not it gave Teva an advantage is less
8 clear to me because it seems, looking at the data, that
9 Teva's price fell very substantially during that period.
10 So I would not agree that Teva was insulated from
11 competition.

12 PROFESSOR WATERSON: Right, okay. You probably would not
13 agree with the description of this as a Matterhorn
14 either, which is a word you used.

15 DR MAJUMDAR: I do not ski very often so I may well be
16 picking the wrong mountain.

17 PROFESSOR WATERSON: Right. does anyone have anything else
18 to add on that?

19 Then I think that concludes what I wanted to ask in
20 this hot-tub.

21 THE PRESIDENT: In that case, we have no more questions, and
22 we will conclude or pull the plug on the hot-tub
23 I suppose we could say.

24 We will rise until 2.00. Will that give the parties
25 enough time to re-arrange the seating? Mr Holmes?

1 MR HOLMES: Both to re-arrange the seating and to re-arrange
2 our cross-examination scripts in the light of what has
3 been a very useful hot-tub, and can I express on behalf
4 of all of the parties our gratitude to the Tribunal
5 because we know that this imposes a burden upon you.

6 THE PRESIDENT: Thank you very much. We will, in that case,
7 resume at 2.00, but if you need further time because of
8 technical issues do let us know. 2.00.

9 (1.00 pm)

10 (The short adjournment)

11 (2.01 pm)

12 THE PRESIDENT: Dr Majumdar.

13 MR BREALEY: He has already been sworn.

14 THE PRESIDENT: Indeed.

15 DR ADRIAN NIZAM MAJUMDAR (recalled)

16 THE PRESIDENT: Dr Majumdar, do sit down. Welcome back.
17 You have already been sworn, so you are still under
18 oath, and I will hand you over to Mr Brealey who will
19 have some questions for you.

20 MR BREALEY: Sorry?

21 THE PRESIDENT: Sorry, who's leading this witness?

22 MR HOLMES: I will be cross-examining Dr Majumdar --

23 THE PRESIDENT: I see, yes, of course.

24 MR HOLMES: -- unless there is anything to deal with in
25 chief.

1 THE PRESIDENT: We have put the reports -- my error.

2 MR HOLMES: I am very grateful to the offer from my learned
3 friend, but I will conduct the cross-examination of the
4 witness, if I may.

5 Cross-examination by MR HOLMES

6 MR HOLMES: Dr Majumdar, good afternoon, thank you very much
7 for joining us again.

8 To set the scene, can we first just agree on the
9 scope of your evidence.

10 In your position paper, you mention the two limbs of
11 the United Brands test and you explain that your
12 evidence speaks to limb 2, namely whether or not the
13 price is fair. That is correct, is it not?

14 A. Yes, that is correct.

15 Q. And under the topic of fairness, the specific topics you
16 were instructed to address are set out in paragraph 12
17 of your first report, if we could just go there, please,
18 it is {XE1/4/4}.

19 You say in paragraph 12 that you have been asked to
20 consider a number of questions in relation to Pfizer's
21 pricing, but that you have not been asked to consider
22 Flynn's pricing. So on instruction, you have not
23 considered the fairness or otherwise of the prices
24 charged by Flynn to wholesalers and pharmacies. That is
25 correct, is it not?

1 A. That is correct.

2 Q. There are then a series of bullets, and the first
3 concerns whether cost plus is an appropriate measure for
4 determining the fairness of pricing which you address in
5 particular in your first report.

6 Then over page {XE1/4/5}, the next bullet identifies
7 an important topic in your evidence, namely whether the
8 prices charged for tablets provide a reliable measure of
9 prices that would arise under workable competition.

10 There is then a bullet about the drug tariff
11 reimbursement price and the final bullet asks whether
12 Pfizer's ASP is unfair based, among other things, on the
13 tablets price.

14 I would like to focus on your evidence relating in
15 particular to the tablet ASPs. That covers both your
16 assessment of competitive conditions in the supply of
17 tablets and your comparison between tablet prices and
18 the parties' capsule prices during the infringement
19 period.

20 Again to prepare the ground, can we revisit some of
21 your main conclusions on those topics, so beginning with
22 the meaning of "workable competition", your evidence is
23 that workable competition is not a term of art in
24 economics, and indeed, does not have a specific economic
25 meaning. Is that correct?

- 1 A. It is not a term of art. It is not something that we
2 see in the economics textbooks, for example, so I would
3 agree with that.
- 4 Q. Yes. Rather you consider it is a practical concept, and
5 there is likely to be a range of prices consistent with
6 workable competition, is that correct?
- 7 A. Yes, a practical concept informed by evidence can vary
8 from industry to industry and yes, there will be a range
9 of prices consistent with workable competition in my
10 opinion.
- 11 Q. Yes, and so consistent with that it needs to be
12 identified in an empirical way having regard to the
13 specifics of the industry, market and time period under
14 consideration; is that right?
- 15 A. Yes, I think workable competition, if one is looking to
16 establish what it is, is an empirical matter, yes.
- 17 Q. Yes, and it follows that it will depend on the facts of
18 each case and it is a matter of granular factual
19 enquiry; is that correct?
- 20 A. Well, if we are looking -- yes, if we are looking to
21 identify comparator prices under workable competition,
22 that is an empirical enquiry.
- 23 Q. I am grateful. So turning to your competitive
24 assessment of tablets supply --
- 25 THE PRESIDENT: Sorry, just pausing there, my recollection,

1 Dr Majumdar, is that we crystallised the meaning of
2 "workable competition" as being competition that did not
3 involve cartel behaviour and did not involve
4 dominance. That is not inconsistent with what you say
5 in paragraph 13. Do you still maintain that definition
6 as well?

7 A. I do, sir. So I would -- which is why I said --
8 I qualified my answer to Mr Holmes with: if we are
9 looking to try to put numbers on it, that would be the
10 empirical point. I think there are essentially two
11 questions: one is conceptually what might workable
12 competition be, and when I first wrote my report I did
13 not have in mind the definition that you helpfully
14 shared with me on Wednesday last week, although what
15 I looked at was consistent with that definition because
16 I did say, for example, I would not expect workable
17 competition to be taking place when a firm was dominant,
18 or rather I implied that by what I said in my report.

19 So conceptually I would agree with you that
20 a helpful definition of workable competition is one
21 where there is no dominance and no collusion, so I would
22 agree with that. So apologies if I was unclear, but my
23 answer to Mr Holmes was if one is then trying to put
24 numbers around --

25 THE PRESIDENT: No, it does not remove the need for

1 empirical analysis, that is --

2 A. Yes.

3 THE PRESIDENT: I just wanted to make sure that we had not
4 lost sight of that because --

5 A. No, no.

6 THE PRESIDENT: -- if it is not, I quite understand why you
7 might want to rethink what workable competition means
8 again, but I just wanted to make sure we had that in
9 mind because that was my understanding of what you were
10 saying, and if Mr Holmes disagrees with it, then
11 obviously he will put it.

12 A. No, thank you for that clarification, sir. I am still
13 happy with that definition.

14 MR HOLMES: Yes, no, I am grateful, and indeed it is
15 consistent, I think, with a passage in your first
16 report, if we could go, please, to {XE1/4/18} you say at
17 paragraph 50 that:

18 "At some point [following monopoly pricing] ... the
19 forces of competition strengthen, the price will go far
20 enough below the monopoly price to mean that it is
21 'workably competitive' ... there is [no] bright line...
22 However, some characteristics of a workably competitive
23 price can be stated.

24 "First ... a firm may have some market power and
25 still charge a workably competitive price."

1 At the end of that paragraph:

2 "... a market leading firm may have some degree of
3 market power without being dominant ..."

4 I think it is implicit in that that you are
5 excluding dominance from the scope of your concept of
6 workable competition, is it not?

7 A. That is correct, I would exclude dominance from workable
8 competition, yes.

9 Q. Yes. I think by the same token, if one looks at
10 footnote 46 at the foot of the page, the other of the
11 instances that the President canvassed with you in
12 cross-examination was also anticipated in that footnote,
13 where you note that your assumption is an absence of
14 collusion?

15 A. That is right.

16 Q. I am grateful. So if we could turn now to your
17 competitive assessment tablet supply, and this is still
18 scene setting, I will come to address your evidence
19 subsequently, but just to clarify that we understand
20 what it is, you have identified a period of what you
21 consider to be workable competition between tablet
22 suppliers, and that is the period when three suppliers
23 were active in the UK. Is that correct?

24 A. Yes, that is correct. Period 3 in the tablet market.

25 Q. Yes. You nonetheless agree with Ms Webster that there

1 are certain factors which are likely to have dampened
2 the intensity of competition to some extent during that
3 period. That is correct, is it not?

4 A. I -- yes, I agree that there are some factors that may
5 have dampened the extent to which competition took
6 place, and I say therefore one has to look at the
7 empirical evidence to assess really the extent to which
8 they are likely to have had an impact or not.

9 Q. But I think your evidence is that they are likely to
10 have dampened the intensity of competition to some
11 degree, is it not? Let me show you.

12 A. I think I qualify that with in the sense that were they
13 not there prices may have been lower than they would
14 otherwise be, but it would be very helpful if you could
15 just take me to the reference, sir.

16 Q. Yes, of course, you do indeed. It is in your second
17 report -- it is in several places, but if we take it
18 from your reply report at {XE1/5/10} and look at
19 paragraph 31 you say there:

20 "... the above factors [which we will come to in
21 a moment, were discussed in your first report and that
22 you] ... acknowledged that they are likely to have
23 dampened the intensity of competition in the tablet
24 market to some extent ..."

25 Then there is the point that you have just made:

1 "... (... absent those factors, competition may have
2 been even more intense)."

3 A. Yes.

4 Q. Just to check through those factors quickly to make sure
5 that we are agreed upon them, the first is the
6 strategies that were employed by two of the suppliers,
7 Teva and Wockhardt, to accommodate one another in the
8 market. Is that correct?

9 A. I do not necessarily -- okay, so there is a factual
10 matter as to the extent to which Teva and Wockhardt did
11 that, so I have not investigated the extent to which
12 that is factually correct. So that particular point may
13 or -- is not what I am saying I have verified factually.

14 Q. Yes, but you accept to the extent that it did happen, it
15 is likely to have dampened competition?

16 A. Can we just go to the explicit point, the --

17 Q. I am just trying to clarify your evidence. So if one
18 looks at paragraph 30 and 31 together, we went to
19 paragraph 31 --

20 A. Could we just go up higher so I can see 30, please?

21 Q. Yes, of course. So you see at paragraph 31 you say you
22 discussed the above factors, those listed in
23 paragraph 30, and acknowledged they are likely to have
24 dampened the intensity of competition, and then the
25 factors that you identify are, first:

1 "Strategies employed by Teva and Wockhardt to
2 'accommodate one another in the market'."

3 A. Right, okay, so I am saying here that Ms Webster has
4 cited these factors and so to the extent that this is
5 factually correct, then that may have damp -- yes, that
6 may have dampened competition.

7 Q. Yes, well, is likely to have done so as you say below in
8 the following paragraph. Yes?

9 A. Well, yes, except that obviously the extent to which
10 that actually plays out in practice is then determined
11 by the evidence and how quickly price fell. I mean,
12 I think that is -- my fundamental point, just to be
13 clear, is that there are a number of factors which are
14 put forward by Ms Webster and the CMA which may have had
15 an impact on making competition less intense than it
16 otherwise would have been, and I say that to understand
17 how important those factors are, to understand the
18 extent to which they really did limit competition, the
19 best way of -- well, the best way of understanding is
20 actually just by looking at what happened to price.

21 Q. Believe me, we will come on to that. I am simply
22 checking that I have correctly understood the factors
23 that you identify as being likely to have dampened the
24 intensity of competition at paragraph 31. The first is
25 strategies to accommodate one another in the market on

- 1 the part of Teva and Wockhardt. The second is supply
2 issues affecting two of the three suppliers in the
3 market; is that right?
- 4 A. Yes, and again, to the extent that this is not disputed,
5 I mean, yes, to the extent that it is factually correct,
6 yes, I would accept --
- 7 Q. But you do consider some of those supply issues in your
8 evidence as we will come on to discuss, you do?
- 9 A. Yes.
- 10 Q. There was regulatory guidance recommending continuity of
11 supply which served as a barrier to switching. Is that
12 right?
- 13 A. Yes, the continuity of supply guidance is a factor as
14 well, yes.
- 15 Q. And it served as a barrier to switching, is that right?
- 16 A. Well, I would not call it a barrier to switching as
17 such, I mean, that terminology is a little bit loaded.
18 I would accept that the continuity of supply guidance
19 would make switching less likely. Now, you may say that
20 is the same as a barrier to switching. I think
21 a barrier to switching is just a slightly loaded term.
- 22 Q. I see. Can we agree, then, that it increased switching
23 costs and raised barriers to expansion?
- 24 A. It would make -- it would make switching less likely
25 because that would be contrary to what the -- because

1 switching a patient from his or her existing drug to an
2 alternative is something that the guidance says is
3 something that should not occur or should be done with
4 great care.

5 Q. Yes, and if we go to {XE1/4/22}, that is in your -- so
6 we are now back in your first report, and look at
7 paragraph 66 together, you agree that this was likely to
8 have had the effect of increasing switching costs and
9 raising barriers to expansion. That is correct, is it
10 not?

11 A. The -- yes.

12 Q. Yes, I am grateful. The fourth point was that the
13 market had some of the characteristics of a niche
14 generic market, in particular, small volumes and some
15 challenges in manufacturing the product; is that right?

16 A. That is my understanding.

17 Q. Yes.

18 A. Yes, the CMA describes tablets as a niche market, and
19 one of the characteristics of niche markets, if
20 I remember correctly, is it is relatively small and the
21 guidance is in place.

22 Q. Thank you. Your view is that notwithstanding these
23 factors, it was the point you were just making, there
24 was workable competition in play during some or all of
25 period 3 in view in particular of the price reductions

1 observed over that period; is that fair?

2 A. Yes, through an entirety of period 3, I consider there
3 was workable competition, yes, that is right.

4 Q. To complete the picture, can we revisit the range of
5 price benchmarks you obtained from the tablet market.
6 So this is table 1 of your first report, which is at
7 {XE1/4/26}. If we could enlarge the top of the page,
8 please, so you construct a single range from £9.63
9 to £12.96 by reference to two time periods.

10 The first time period you consider is shown in the
11 first row of the table, and it is the entirety of
12 period 3 from the moment Milpharm launched the tablet
13 product in September 2012 until the moment that
14 Wockhardt finally exited in July 2014. Is that right?

15 A. That is correct.

16 Q. The second is a shorter period from January 2013
17 to October 2013, and that is shown in the second row of
18 the table. Is that right?

19 A. That is correct.

20 Q. Yes, and the basis of that selection is indicated, if we
21 go back a page on figure 3 in your first report
22 {XE1/4/25}, and first you remove the opening four months
23 from September to December 2012 which you describe as
24 the erosion of duopoly price as labelled by the second
25 vertical line; is that right?

1 A. That is right. Sorry, just to be clear on the question,
2 so you are explaining how I got to the second line in
3 the table, the January to --

4 Q. Exactly, yes. At the moment, as I say, this is just
5 scene setting. I will come back to discuss the
6 specifics of it with you.

7 A. Sure.

8 Q. But the first adjustment is to remove the period you
9 describe as the erosion of duopoly price. Is that
10 right?

11 A. That is correct.

12 Q. Yes, and looking at the graph, that is a period when
13 prices were falling rapidly following entry by a third
14 party; is that right?

15 A. That is correct.

16 Q. You describe this as a period of adjustment or
17 transition in your evidence. Do you recall that?

18 A. I don't recall the precise wording. However --

19 Q. Would you disagree with that characterisation?

20 A. I would not disagree, no. I think this is essentially
21 where these are 33% price fall over a short four-month
22 period of time as the -- at the beginning of period 3,
23 where the tablet market moves from that prior -- I mean,
24 there had been a price decline prior to that, but that
25 is where the tablet market moves from a duopoly,

1 slightly below a duopoly price, into this sort of new
2 phase in January 2013, yes.

3 Q. Which you characterise as a triopoly, I think it is
4 a wonderful phrase.

5 A. I believe I do call it triopoly, yes.

6 Q. Yes. Second, you also remove a period at the end
7 running from November 2013 to July 2014, and as shown by
8 the third vertical line in figure 3 that reflects the
9 MHRA guidance against switching on continuity of supply
10 grounds released in November 2013. Is that right?

11 A. That is correct.

12 Q. As we have discussed, that is on the basis that the
13 guidance is likely to have had the effect of increasing
14 switching costs and raising barriers to expansion?

15 A. Well, that is the reason I considered two time periods.
16 I believe that I say in AM1, in my first report, I say
17 my preferred period is the entire period, but as a check
18 I also look at this January through to October period,
19 and I deliberately stop it just prior to -- well,
20 in October, because the guidance comes in in November.

21 Q. Yes, yes, and I think we can quibble over terminology,
22 I am not sure -- your counsel will no doubt point you to
23 where it is said, if it is. I am not sure you do
24 describe this as a cross-check. I think it is part of
25 the construction of your single price range benchmark

1 with the lower bound indicated by the pricing in the
2 narrower period. Does that sound right to you?

3 A. I would have to check my report.

4 Q. Okay, I will show you in a moment.

5 I think you recognise that on its face the guidance
6 would mean that any supplier would have a captive body
7 of patients and so face very little competition, in your
8 words akin to being a monopolist over its pre-existing
9 customer base. That is right, is it not?

10 A. So the point I am making there is that with the
11 continuity of guidance in place, if that is adhered to,
12 then, because there are relatively few patients coming
13 to the market, in essence, a supplier theoretically has
14 a monopoly over its existing customer base, and I say
15 that considering that theoretical position it is
16 remarkable how much competition has taken place.

17 I believe that is what I -- that is the point I am
18 making at that paragraph.

19 Q. Yes, and on that basis, your view is that the period
20 prior to the 2013 guidance therefore provided greater
21 scope for suppliers to win volumes from each other.

22 That is right, is it not?

23 A. Yes, prior to the guidance being in place
24 in November 2013, it would seem that there was greater
25 scope to win customers, yes.

1 Q. In deciding to remove the post-November 2013 period, you
2 also took account of the fact that from January 2014
3 Wockhardt's volumes were depressed as it prepared to
4 exit the market. Is that right?

5 A. I took that into account. I looked at the evidence and
6 I noted that while in theory one might expect prices to
7 go up, in the period we see on the far right of this
8 chart, ie after the guidance and prior to the exit, in
9 theory, we might expect prices to go up, in practice
10 they do not. So the market-wide average selling price,
11 which is the red dotted line, actually declines. Teva's
12 price actually declines.

13 So I looked at various pieces of evidence, one of
14 which was indeed that Milpharm -- sorry, not Milpharm,
15 Wockhardt had lower supply volumes, but I also looked at
16 the evidence on pricing which suggested to me that some
17 competition was still taking place.

18 Q. I will come to discuss the time series with you, but
19 I think your answer to my question was that you did --
20 in excluding the post-November 2013 period you took
21 account of the fact that Wockhardt's volumes were
22 depressed as it prepared to exit. Is that right?

23 A. Yes, I would have taken that into account.

24 Q. You did take it into account. I can show you where in
25 the report, if that would be helpful.

1 A. Yes, okay.

2 Q. If we go to {XE1/4/21}, we see at paragraph 64 your
3 acknowledgement, as you put it, that Wockhardt's
4 importance declined in 2014 as its volumes tailed off,
5 and then if we can turn on to --

6 A. I cannot actually see that on the --

7 Q. I am so sorry, forgive me. That is {XE1/4/21}, please?

8 THE EPE OPERATOR: I am sorry, I am having trouble with the
9 connection.

10 MR HOLMES: Do not worry, it happens. It always seems to
11 happen when I am cross-examining, but I will not take it
12 personally. We can probably work from the hard copy if
13 people have that to hand.

14 You do have a copy, I am sure the Tribunal does as
15 well, it is {XE1/4/21}. That is very resourceful, thank
16 you, Dr Majumdar.

17 It was page 21 of your first report. You say at
18 paragraph 64 -- do you have that at the foot of the
19 page?

20 A. Yes.

21 Q. "... I acknowledge that Wockhardt's importance declined
22 in 2014 as its volumes tailed off."

23 A. Yes.

24 Q. If we turn on to paragraph 74 {XE1/4/24} where you
25 explain the subperiods in period 3, how you divide it

1 up, you say there you now break it down into three
2 subperiods at the top, and then that:

3 "... assists [your] choice of time periods for
4 determining a range of prices consistent with workable
5 competition."

6 The first is the period we discussed, the rapid
7 price fall from September to December 2012, the
8 transitioning period you see at the top there, and then
9 the third bullet refers to the November 2013
10 to July 2014:

11 "This is the period after the introduction of the
12 Guidance and before the exit of Wockhardt..."

13 So before the exit of Wockhardt, and:

14 "It is not obviously a relevant period to consider
15 because one might expect the market-wide ASP to have
16 risen during this period..."

17 We will come back to the time series, but your
18 evidence there is, as I understand it, but tell me if
19 I am wrong, that the period after October 2013 would not
20 obviously be a relevant period to consider.

21 A. That is correct, and the reason I say that, this really
22 goes back to the point that ex ante, if you like before
23 you see what actually happens, you would not expect to
24 see material additional competition with the continuity
25 of guidance in place, which is why it is not obviously

1 a good comparator period after the November 2013
2 introduction of the guidance.

3 However -- and I say that, I believe, at the
4 paragraph you referred me to earlier on which was 64 --

5 "However, this did not occur..."

6 So ie although one might expect prices to go up,
7 I say:

8 "However, this did not occur. In fact both Teva's
9 price and the market-wide ASP fell after the Guidance as
10 is evident from Figure 2 above."

11 So that was my point: it is not an obvious
12 comparator period --

13 Q. Yes.

14 A. -- but actually when you look at the evidence, it is
15 remarkable that prices do fall, and therefore one with
16 come to the view that competition was still taking place
17 in that period by looking at and observing what was
18 actually happening to prices.

19 Q. Yes, I understand, that is very helpful, and I will come
20 to discuss that time -- the price trends during that
21 period but I think your view as a matter of economic
22 theory is that you would expect competition to be
23 strongest in the narrower period from January 2013
24 to October 2013. Is that right?

25 A. It is. When I re-read that, I probably should have

1 qualified that, because obviously we have strong
2 competition just prior to that when we had this dramatic
3 price fall as well which is strong competition. So
4 I think --

5 Q. To be fair, you only say that it should be strongest
6 during that period; you are not commenting on the
7 strength outside the period, but it is the period when
8 you would expect competition to be strongest, is that
9 right?

10 A. Prior to the guidance coming in I would expect
11 competition, yes, to be stronger than after the guidance
12 being in place, and the point that I make is that it is
13 surprising that after the guidance is in place, price
14 continues to fall.

15 Q. But I think it is the period from January 2013
16 to October 2013, so excluding also the transitioning
17 period as you described it?

18 A. No, absolutely, and so that was the point that I was
19 just trying to make, namely that I -- when I re-read the
20 report and I noticed that I said this is the period of
21 strongest competition, it sort of jarred with me
22 a little bit in the sense that just prior to that we
23 have very strong competition in terms of the price
24 falling rapidly which one might also say is pretty
25 strong competition as well. That was the point that

1 I am making.

2 Q. Thank you. If we could now return to table 1 to see the
3 price points you have selected, at the top of your
4 range, you have the price point of one individual
5 supplier, Teva -- sorry, do you have that? It is at
6 page {XE1/4/26}.

7 A. I have it, thank you.

8 Q. Perhaps if we could call it up on the screen as well.
9 There we are.

10 At the top of your range, you have the price point
11 of Teva, so one individual supplier. You then have the
12 market-wide weighted average ASP, and can we agree that
13 that would again be heavily weighted towards Teva given
14 that Teva managed to retain most of the volume
15 throughout period 3?

16 A. The market-wide tablet ASP is a volume-weighted average
17 of prices, and because Teva's average volume throughout
18 that period was approximately, I think it was about 69%,
19 that would mean that Teva would have a greater weight,
20 the majority weight, compared to the other tablets.

21 Q. Yes. You also have a weighted average ASP for the two
22 non-Teva players shown in the third column. You regard
23 a market-wide ASP as the best measure of the overall
24 market price, is that correct?

25 A. Of the overall market price, yes, because it takes into

- 1 account all of the participants in the market.
- 2 Q. Yes. So your range is from £9.63 to £12.96. On the
3 basis of that range, you calculate in your first report
4 a mid-point of £11.30 for comparison purposes; is that
5 right?
- 6 A. That is conducted as a separate sensitivity test. It is
7 not my preferred measure, but I do calculate
8 the mid-point, yes.
- 9 Q. Yes. You do not include within your range the most
10 competitively priced supplier, although you have
11 included the highest priced supplier, Teva, but can we
12 agree the accolade for most competitive pricing would
13 have gone to Milpharm on a weighted average basis?
- 14 A. It depends what you mean by "most competitive pricing".
15 I mean, Milpharm -- let me just look at my chart.
16 Milpharm would have had through most of the period
17 a lower price.
- 18 Q. Yes.
- 19 A. So I would agree with the accolade that Milpharm tended
20 to be the lowest price produced, but it does not
21 necessarily mean it was the most competitive. I mean,
22 the lowest price, yes, I would agree with that.
- 23 Q. Yes, the lowest price, that is helpful. If one added
24 Milpharm's weighted average to match the average Teva
25 price which is included, that will take the range down

1 at the bottom end to £8.81. Can you take that from me?

2 Does that sound about right to you?

3 A. Sorry, so you have just taken a weighted average price
4 of Milpharm's --

5 Q. Of Milpharm's price as the lowest priced player in the
6 market.

7 A. I will take it from you, I would have to --

8 Q. Yes, of course, I understand. If we calculated
9 a separate data point for the most competitively priced
10 supplier based on that figure, and, you know, of course
11 it can be tested, your mid-point calculation would move
12 down to £10.88.

13 A. Sorry, so it sounds like we are slicing and dicing
14 a sensitivity test. Would you mind just reminding me
15 how you got there again?

16 Q. So I have taken the Milpharm weighted average ASP over
17 period 3, that is £8.81, and I have calculated
18 a mid-point between that and the Teva ASP at the top of
19 your range which is £12.96. It is not --

20 A. Oh I see, you have taken the lowest priced player only
21 and you have excluded Wockhardt and calculated
22 the mid-point between the two ASPs?

23 Q. I have just added another point to your range. So you
24 have calculated your mid-point simply as the middle
25 price between £9.63 and £12.96, and that gives you

1 your £11.30. It is not weighted; it is just a division
2 by two.

3 A. Okay. Just to be clear, this mid-point analysis is
4 conducted as part of a sensitivity test.

5 Q. I understand, I understand. I am just testing with you
6 if one had a lower bottom end of the range by including
7 Milpharm just as you have included Teva, a single
8 supplier, at the top end of the range, that would bring
9 your mid-point calculation for the sensitivity down.

10 A. It would do. I mean, just also to be clear, I think
11 I mentioned -- I am just trying to find the reference,
12 but I am certain that I say that I only include the
13 reference to the non-Teva prices, ie the 9.91 and 9.63
14 for completeness as opposed to suggesting that they are
15 prices that I would place weight on.

16 Q. I understand, so you include the Teva price and you
17 include the market average ASP?

18 A. Yes.

19 Q. But your preference would be to exclude completely the
20 prices -- you would not give any weight, any independent
21 weight, to the prices for the two generic entrants
22 during period 3, is that right?

23 A. So I -- the reason I presented them, as I say in my
24 report, was because the CMA in its remittal decision
25 focused, if I remember correctly, on one particular

1 month, and the lowest price generic in that month, and
2 I say in this report that is in my opinion a selective
3 thing to do because, for two reasons: (a) it is only one
4 month and competition takes place over a long period of
5 time, and, two, because focusing on only one month is
6 dangerous with these type of data because there is a lot
7 of volatility and noise in them. Then I go on to say
8 for completeness if we are looking at non-Teva prices
9 then I will calculate the non-Teva weighted average
10 selling price which is essentially what the £9.91 and
11 £9.63 are here shown in this table.

12 Q. That is helpful. If we could go back a page to page
13 {XE1/4/25} to look at figure 3. So I think what you are
14 saying is that your evidence then would be that you
15 would -- if you were starting with a clean sheet, you
16 would only consider the Teva ASP and the market-wide
17 ASP, and the much lower prices that obtained for the two
18 generic entrants, Milpharm and Wockhardt, you would not
19 give any further consideration or weight to; is that
20 right?

21 A. Well, if we are looking for a range, then what we are
22 interested in, really, is the top of the range, because
23 by implication prices below that range are within the
24 range, so they are less relevant.

25 I think there is -- so that is the --

1 Q. So you are going even further, are you not? You are
2 saying really that the only relevant figure for the
3 purposes of your comparison is the Teva average selling
4 price, is that right?

5 A. No, I am not saying that. I am saying if you want to
6 understand the top of the range, the -- let me take
7 a step back. Firstly, go back to the conceptual point,
8 which was the one I was discussing with the President
9 earlier on, conceptually, if workable competition is
10 a price where there is no dominance, then one could look
11 at this completely differently and actually say: well,
12 what sort of would be a price that is just on the cusp
13 of dominance which I suspect would be a lot higher,
14 around £26, so one could tackle the problem that way.
15 That would give you a cusp of dominance price of
16 about £26 or above.

17 What we are doing here is we are saying within the
18 tablet market, if one is looking to establish a range of
19 prices consistent with competition, and it is not saying
20 that the range that you find is the top of the range, it
21 is simply saying what do the data say for a range of
22 prices consistent with competition, then the top of the
23 range would be the weighted average price for Teva.

24 That is --

25 Q. That is the figure that you compare with your adjusted

- 1 ASP for Pfizer, is that right?
- 2 A. Correct.
- 3 Q. Just to make that good, that is shown on page {XE1/4/26}
- 4 at paragraph 79. So you say there that Pfizer's
- 5 adjusted ASP is slightly above the top of the range,
- 6 that is the Teva ASP, but you say it is close enough to
- 7 be consistent with workable competition, is that right?
- 8 A. Yes, I do. There is a 32p difference, and I say
- 9 because, as I have just explained, that this £12.96 is
- 10 not the top of the range of workable competition, it is
- 11 just the top of the range that comes out from my
- 12 estimates that that 32p is well within the margin of
- 13 error for me to conclude that the £13.28 adjusted Pfizer
- 14 price is consistent with workable competition.
- 15 Q. Just to check how you calculated that adjustment, what
- 16 you have done is to take Pfizer's weighted average price
- 17 for the 100mg strength averaged across the whole
- 18 infringement period. That is right, is it not?
- 19 A. Yes, Pfizer's price averaged across the whole of the
- 20 relevant period, yes, which is £12.55, yes.
- 21 Q. Yes, and you have chosen the 100mg -- the price for
- 22 100mg strength because that is the same as the tablet
- 23 strength?
- 24 A. Correct.
- 25 Q. That is £37.56 in capsule prices. That is right, is it

- 1 not? I can show you if you like.
- 2 A. I am happy to take 12.55 and multiply by three.
- 3 Q. This is just for exposition purposes. What you have
4 done is you have divided £37.56 by 3 to reflect the
5 different pack sizes to give you your figure of £12.52,
6 is that right?
- 7 A. Yes, that is right. So the capsules are sold in --
8 well, the 100mg capsules are sold in packs of 84.
- 9 Q. Yes.
- 10 A. Tablets are sold in packs of 28, ie a third of the size,
11 therefore, we need to take a capsule price and divide by
12 three to make it comparable with the tablet price, hence
13 we get to the 12.55 by the division you mentioned.
- 14 Q. 12.52, I think, yes. Oh no, I am so sorry, 12.55, you
15 are quite right, forgive me.
- 16 You accept that a further adjustment is then needed
17 because the Pfizer price is upstream of the tablets
18 price: Pfizer was selling on to Flynn, who then supplied
19 the product to pharmacies and wholesalers, but the
20 tablet suppliers were at Flynn's level of the market,
21 also selling to pharmacies and wholesalers. Can we
22 agree about that?
- 23 A. Yes. So the CMA says that Flynn's level -- the
24 distribution level of the supply chain is the level that
25 needs to be compared with the tablet price which is why

1 I take the Pfizer price and adjust it for a sufficient
2 amount to cover distribution costs to allow for a like
3 for like comparison.

4 Q. You say the CMA says that, but just to be clear, you do
5 not dissent from that, do you? You agree that --

6 A. I agree that a like for like comparison with tablet
7 prices is to be made at the distributor level which is
8 why I adjust Pfizer's price to bring it up to the
9 distributor level. That is what I was explaining during
10 my teach-in, sir, when I increased by 76 and then ran
11 some sensitivities of £1.76 and then the full adjustment
12 up to Flynn's price, sir.

13 Q. The 76p is basically taking the CMA's calculation of
14 Flynn's cost plus and dividing it by three?

15 A. In essence, yes, it is the 76p comes from the CMA's cost
16 plus estimate, so one takes cost plus for Flynn,
17 excludes the Pfizer supply price, and then everything
18 else is cost plus a reasonable margin then divide by
19 three because we are moving from 84 to 28 pack sizes.

20 Q. To be clear, that is not only excluding Pfizer's
21 upstream price, it is also excluding the vast majority
22 of Flynn's actual capsule margin, is it not?

23 A. No, it just takes the CMA cost plus measure --

24 Q. Yes.

25 A. -- so it does not include the actual margin that Flynn

1 obtained above the CMA cost plus measure, it just is
2 purely the CMA cost plus measure.

3 Q. Yes, exactly. There is obviously an actual selling
4 price at the same level as the tablet suppliers, and
5 that is the price at which Flynn sold Pfizer's capsules,
6 would you not agree?

7 A. Yes, Flynn had an actual selling price, yes, I agree
8 that Flynn had an actual selling price, yes.

9 Q. Can I check why you have not worked on the basis of this
10 actual downstream ASP? Is it because you want to
11 isolate the impact of Pfizer's upstream price from
12 Flynn's actual margin and to see whether it could
13 produce on reasonable conditions a downstream price that
14 is not unfair, judged by a competitive comparator? Is
15 that a fair summary?

16 A. The logic of my approach is that I am aware that there
17 were two separate abuses, the first being Pfizer
18 charging Flynn an unfair price and then secondly, Flynn
19 itself charging an unfair price. So I have sought to
20 understand whether Pfizer's price was unfair.

21 Now, the way I do that is I -- the way I do that by
22 comparing against the tablet market was I asked the
23 question did Pfizer allow Flynn enough room to charge
24 a price that was not unfair? Did Pfizer allow Flynn
25 enough room to charge a price that was not unfair? If

1 so, I say Pfizer's price was not unfair because Pfizer
2 was not forcing Flynn to charge an unfair price. So
3 that is the logic of my approach of starting with
4 Pfizer's price, and then adjusting up by a margin.

5 I hope that is clear.

6 Q. It is very clear, and just to make sure that I have
7 understood what you are saying is you want to isolate
8 the causal effect of Pfizer's pricing from Flynn's
9 pricing by seeing whether it would have been possible to
10 accommodate a distributor margin and arrive at prices
11 that are fair by reference to your competitive benchmark
12 comparator, is that right?

13 A. In essence, yes, it is about isolating the impact of the
14 Flynn margin, yes.

15 Q. Yes. Now, can we agree that if you took actual average
16 selling prices for capsules during the relevant period
17 at the same level of the market and undertook the same
18 comparison that you have performed in paragraph 79 of
19 your main report, you would find a much larger
20 divergence from the top of your benchmark range?

21 A. This is what I presented in my teach-in. I believe it
22 was my penultimate slide. So the more in terms of
23 margin you add to Pfizer's price, the further away you
24 get from £12.96. I would agree with that, but the point
25 that I was making in my teach-in was nonetheless even if

1 you go up to Flynn's price of £18 there is still
2 considerable room between that £18 and a conservative
3 estimate of Department of Health willingness to pay
4 which I said was £30, so my point was, yes, there is
5 room above -- sorry, yes there is a difference between
6 Flynn's price and the £12.96, but that price is still
7 low relative to the Department of Health's willingness
8 to pay.

9 Q. But Dr Majumdar, you are there springing to a different
10 comparison based on a different aspect of your analysis.
11 Just looking at paragraph 79 of your report for a moment
12 at {XE1/4/26}. You are not here comparing your adjusted
13 ASP with a higher monopoly price or a price that the
14 Department of Health would be willing to pay for
15 tablets, are you?

16 A. Not in this part. I do that in part 3, which is just
17 the next page, yes.

18 Q. Yes, so you are comparing here with your competitive
19 benchmark. That is correct, is it not?

20 A. So section 2 of my first report is a comparison with my
21 estimate for the range of prices consistent with
22 workable competition.

23 Q. Yes, I am grateful, and that is a separate and
24 stand-alone analysis as you describe it from your
25 comparison with constrained and unconstrained monopoly

1 prices. Indeed, it is the primary analyses and the
2 comparison with constrained and unconstrained monopoly
3 prices is presented as a sensitivity or cross-check.

4 That is right, is it not?

5 A. The -- so the -- you mean section 3 --

6 Q. Yes.

7 A. -- where I do a cross-check with the range -- sorry,
8 with the estimate of the Department of Health's
9 willingness to pay. Yes, I present that as a separate
10 piece of analysis.

11 Q. And as a cross-check under the assumption that the price
12 is --

13 A. And as a cross-check of my conclusion that Pfizer's
14 price was not unfair, yes, I do.

15 Q. I am grateful. So if I may, it is against the
16 comparison with your competitive benchmark range that
17 I would like to discuss at this point. So if you will
18 humour me, can we just consider the comparison between
19 Flynn's actual ASP during the relevant period and your
20 competitive benchmark, the price is consistent with
21 normal and sufficiently effective competition, and not
22 consider for the moment your constrained and
23 unconstrained monopoly prices.

24 For the purposes of that comparison, can we keep
25 {XE1/4/26} on one side of the screen and display

1 {XA1/1/104} on other side of the screen.

2 If we could just go down on the left-hand side so
3 that we can see the table. Great.

4 So you see table 2.5 on the right side shows the
5 downstream price produced by Flynn's and Pfizer's
6 arrangement, and that is the Flynn ASP, and the relevant
7 line is the 100mg line, as we have discussed, and if we
8 look at Flynn's ASPs across the relevant period, that is
9 the second column, you see that they are £54.40 on
10 average. Do you see that?

11 A. I do.

12 Q. If we divide that by 3, we get a figure of £18.13. Does
13 that sound right to you?

14 A. £18.13, yes, that sounds correct.

15 Q. That is over £5 above the very top of your benchmark
16 range based only on the Teva ASP. That is correct, is
17 it not?

18 A. That is correct, yes.

19 Q. Taking the lower end of your benchmark, the actual
20 downstream ASP is not far off double, £18.13 compares
21 with £9.63; is that right?

22 A. Yes, if you double £9.63, you get £19 something which
23 is --

24 Q. So not far off double.

25 Now, in terms of the actual capsule pack price in

1 pounds, shillings and pence, if we work from the very
2 top of your range it is more than £15 above the top end
3 of your benchmark, is it not?

4 A. Sorry, how did you get to £15?

5 Q. So you have £54.40 and the top of your range is £12.96
6 which one with need to multiply by three. The point
7 I am making is that there is a £15 differential in terms
8 of the capsule price, more than £15 between the top end
9 of your benchmark and the Flynn ASP, the actual selling
10 price.

11 A. I see, so if you are scaling up £12.96 by three and then
12 taking 54.40 less three times 12.96 the difference is
13 around £15.

14 Q. And that is more than Flynn's entire margin above its
15 cost plus.

16 A. Sorry, I do not -- where is Flynn's cost plus figure?

17 Q. You do not get that from here, but it is -- I can
18 perhaps return to that.

19 A. I do not know, I have not looked at Flynn's margin.

20 Q. I understand. Now, can we turn, then, to the
21 competitive conditions in the tablet market?

22 Now, can we start by considering the whole of the
23 relevant time series data that is available to us, and
24 for that it might be helpful to have a figure from the
25 CMA's skeleton argument open in front of us. It is at

1 {XL/3/19}. If we could have that only that, please, and
2 if we could enlarge the bottom figure on the page. We
3 can see here the four distinct periods considered in the
4 Decision. You see the evolution of tablet prices across
5 time which does look a little bit more like
6 a Matterhorn.

7 Starting at the left-hand side in period 1, can we
8 agree that during this period, Teva was a monopolist in
9 the supply of tablets prior to Wockhardt's entry
10 in October 2009?

11 A. Yes, in period 1, Teva was the only tablet supplier so
12 far as I understand it, yes.

13 Q. Yes. Then between April 2005 at the start of Scheme M
14 and October 2007, Teva increased its price per pack of
15 tablets very substantially. Does that match with your
16 understanding?

17 A. Yes.

18 Q. In fact, this graph understates the extent of the price
19 increase. In fact prices went from £2.67 in 2005
20 to £51.25 in October 2007, so that is a price rise of
21 over 1,800%, is it not?

22 A. I cannot do the 1,800% in my head, but I would agree
23 that the price went up to £51.25 for Teva
24 in October 2007.

25 Q. I am grateful. You do not suggest that there was any

1 competitive constraint on Teva's pricing during that
2 period?

3 A. Not at that time, no.

4 Q. Yes. Can we go, please, to a contemporaneous Teva
5 document just to see what light that sheds on conditions
6 during the period. It is at {XG/27/19}.

7 This is a slide in an internal presentation of
8 Teva's in November 2007. You see that the slide sets
9 out "Product News" and the fourth product listed in the
10 slide is phenytoin, and if we could look at the
11 underlying text, so the bottom text --

12 A. Sorry, could we make that slightly larger? Thanks.

13 Q. Quite. That would be helpful for all:

14 "Phenytoin ... is the star in our generic portfolio
15 and as we are the only supplier in the market we have
16 been able to maintain high prices. We estimate to make
17 an additional margin of £19.6m vs the initial WP. Sales
18 are [expected] to have gone up from an initial estimate
19 of £5.8m to £25.4m by the year end."

20 So can we agree that Teva recognised that its
21 ability to maintain high prices during this period
22 reflected its status as the only supplier in the market?

23 A. That seems likely.

24 Q. Yes, and the price increase, worth around £20 million --
25 that is to say the difference between 5.8 million and

1 25.4 million -- led to an additional margin of
2 £19.6 million, so it appears from this as though there
3 was no cost change underlying the price increases, just
4 pure additional profit. Would you agree?

5 A. I cannot tell on the basis of this information what
6 caused the price increase -- sorry, let me rephrase
7 that. There is no cost information here, but I would
8 agree that it is unlikely that costs increased
9 from £2.96 to £51.25.

10 Q. Yes, well, we have additional margin, do we not, and we
11 have an increase in the value of sales from 5.8 million
12 to 25.4 million. The additional margin looks very close
13 to the increase in the value of sales, does it not?

14 A. I see what you mean, yes.

15 Q. Yes. Now, in October 2007 we can agree, I think, that
16 there was a meeting between Teva and the Department of
17 Health; is that right?

18 A. October 2007, yes.

19 Q. Now, I am not going to discuss what view the Department
20 of Health took of the reasonableness of the resulting
21 price for tablets or for capsules because, as you
22 rightly say in your first report, that is not really
23 a matter for you as an expert, but can we agree that the
24 effect of the meeting was that the drug tariff was
25 progressively reduced until it reached £30 one year

1 later?

2 A. Yes.

3 Q. Now, while we are at this point in the sequence of
4 events there are two quick points to pick up regarding
5 that meeting.

6 First, your understanding of the meeting was that
7 the Department of Health was able to exert a degree of
8 bargaining power in relation to price, the source of
9 which seems to be attributable at least in part to its
10 powers under Scheme M to require cost information and in
11 exceptional cases to fix the price. Have I got that
12 right?

13 A. I discuss that in my report. I -- yes, I say that the
14 Department of Health had some strength as a buyer, yes.
15 The precise details will be here in my report.

16 Q. Just to help you, if we go to paragraph 92 of your first
17 report at {XE1/4/29} and enlarge the bottom of the page,
18 you explain there that you think that there was
19 a material degree of negotiating power, and in the
20 middle of the paragraph you say that:

21 "... the source of the bargaining power seems to be
22 the [Department of Health's] powers under Scheme M and
23 its powers of persuasion as a monopsony purchaser. Even
24 if the DH did not use the powers formally at the time,
25 the ability to use them would have endowed it with

1 bargaining power because Teva would have been aware of
2 these powers ..."

3 So it is bargaining under the shadow of regulation;
4 is that right?

5 A. Yes.

6 Q. Yes. Now, this leads you to the view that the NHS's
7 willingness to pay for capsules may be greater than for
8 tablets because capsules were outside of Scheme M, and
9 the Department of Health therefore did not have the same
10 powers to intervene as it did in relation to tablets,
11 thereby reducing its bargaining strength in the capsule
12 market. Is that right?

13 A. I say that as a possibility, but that is not the basis
14 on which I proceed, though.

15 Q. But you recognise that possibility, you note that it is
16 a fact that tablets -- sorry, that capsules were outside
17 Scheme M and you note also that the Department of Health
18 therefore did not have the same powers to intervene as
19 it did in relation to tablets?

20 A. Yes, I agree that my understanding is that capsules were
21 outside the Scheme M and, therefore, that the Department
22 of Health did not have Scheme M powers with respect to
23 capsules.

24 Q. Yes, I am grateful. So the second point is one of
25 factual clarification on a point relevant to both of

1 your reports, just to avoid any risk of the Tribunal
2 mistaking the position.

3 Could we go, please, in your main report, to
4 {XE1/4/38}. If we could look at the end of the first
5 bullet point, complete bullet point, on the page, so
6 second paragraph, that is it, you see there that you are
7 discussing the meeting, and you say in the final three
8 lines:

9 "Evidence on file suggests that the [Department of
10 Health] subsequently told the CMA it was 'likely' to
11 have 'just asked' for a lower price -- a process which
12 the [Department of Health] indicated to be 'not
13 unusual'."

14 Do you see that?

15 A. Yes.

16 Q. Can we next go to your reply report, {XE1/5/23} and look
17 at paragraph 70, second bullet, and there you repeat the
18 same point:

19 "Evidence on [the] file suggests that the
20 [Department of Health] told the CMA it was 'likely' to
21 have 'just asked' for a lower price -- a process which
22 the [Department of Health] indicated to be 'not
23 unusual'."

24 If you could look, please, at the accompanying
25 footnote 79 at the foot of the page, you say that this

1 is clear from a document, it is a meeting note between
2 the CMA and the Department. The Opus reference for the
3 transcript is {XG/383/7}, but we do not need to go
4 there. You then set out the quote, and if we could just
5 look at the underlined text it says:

6 "... it was unlikely that there had been
7 a negotiation as such. It was likely that the official
8 in question just asked Teva whether there was something
9 it was able to do about the price of tablets. Such
10 conversations with regard to generics are not usual."

11 Do you see that?

12 A. Yes.

13 Q. In view of the text set out here in the footnote, which
14 is correct, do you accept that the position is the
15 opposite of that which is set out in the main body of
16 your two reports. The Department did not say that
17 meetings like the one with Teva were not unusual; the
18 position is the opposite: it said that such meetings
19 were not usual?

20 A. I see, so -- that meetings were not -- well this is
21 a factual point.

22 Q. I am just correcting a factual error in your report to
23 avoid any risk of confusion or misunderstanding.

24 A. Okay, so let me just be clear on this. So
25 essentially -- so what you are saying is that the quote

1 in footnote 79 is correct?

2 Q. Yes.

3 A. "Such conversations with regard to generics are not
4 usual."

5 Well, if that is correct -- if that is the correct
6 statement, then my text should say it is not usual as
7 opposed to not unusual.

8 Q. Yes. So in fact, the text in the footnote matches with
9 Mr Williams' industry evidence this morning, does it
10 not, that the Department of Health meeting with Teva was
11 almost unique?

12 A. I remember Mr Williams making the point that it was
13 unusual to have an intervention to bring the price down
14 to such a degree, yes.

15 Q. Now, with that correction made, can we now return to the
16 time series data for tablets in the CMA's skeleton
17 argument at {XL/3/19}.

18 Just enlarging the foot of the page where we have
19 got to, I think, is the drop a little way back down in
20 2008. So we have discussed the Department of Health
21 meeting leading to the drug tariff being reduced to £30,
22 and can we agree that Teva's ASP then fell to around
23 £25 or £26?

24 A. From October 2008?

25 Q. Yes.

- 1 A. Yes, Teva's ASP was about -- yes, £25 or £26 -- £26
2 I think, yes.
- 3 Q. And whilst there is some noise in the data, the price
4 remained around that level until the start of period 2
5 in late 2009?
- 6 A. Yes, that sounds right.
- 7 Q. And that was a price that was still 870% higher than it
8 had been in 2005 before Teva began pushing the price up,
9 as we have seen very profitably. Would you agree?
- 10 A. Again, I will not be able to do that maths in my head,
11 but I would agree that the price stayed at around £26
12 from October 2008 onwards.
- 13 Q. Can we agree that that is many multiples?
- 14 A. Yes, we can agree that it is many multiples of the
15 original starting price, whichever that was, £2, £3.
- 16 Q. During this period, again, there were no competitive
17 constraints on Teva to erode the high prices achieved
18 under monopoly any further; would you agree?
- 19 A. Sorry, during which period? I mean, I would say there
20 was clearly, in my opinion, there was a constraining
21 process of the Department of Health's intervention to
22 very substantially lower the price.
- 23 Q. There was no competition from rival suppliers that
24 conditioned the price --
- 25 A. There were no alternative suppliers in the market at the

- 1 time, no, that is correct.
- 2 Q. I am grateful. So Teva was at this time still
3 a monopolist?
- 4 A. Yes.
- 5 Q. Yes. So as regards market conditions prior to entry in
6 2009, can we agree that tablet prices remained affected
7 by the earlier significant price increases before 2007?
- 8 A. Well, yes, I suspect they were likely to be affected,
9 but nonetheless they were constrained by the
10 intervention by the Department of Health.
- 11 Q. But the DT price agreed with the Department of Health
12 has brought the price down somewhat, but it is still far
13 above where it was, is it not?
- 14 A. I would agree that the price has been brought down to
15 a level higher than it was, yes. I would agree with
16 that.
- 17 Q. So next Wockhardt enters in October 2009, and the market
18 was then a two-player market for the next three years
19 until September 2012. That is right, is it not?
- 20 A. It was, yes, a two-player market until September 2012,
21 that is correct, yes.
- 22 Q. And that is the period 2 in the Decision?
- 23 A. Yes.
- 24 Q. And can we agree that the prices for most of period 2
25 are broadly stable at around £25 or £26?

- 1 A. The average selling price to the end of 2011 is £26 both
2 for Wockhardt and for Teva. There is some noise in the
3 data series which you can see here on the chart, but
4 I would agree that the average selling price for both
5 Teva and Wockhardt, up until the end of December 2011,
6 was £26, but then there was a 14% decline for Teva
7 from January 2012 to August 2012.
- 8 Q. Yes, I will come to that. These prices are still many
9 multiples of Teva's original ASP of £2.67 in 2005, is
10 that not right?
- 11 A. Yes.
- 12 Q. And it is therefore right to say that Teva's earlier
13 price increases have not been competed away in this
14 period, have they?
- 15 A. Correct, the -- correct, yes.
- 16 Q. Yes. Now, as regards period 2, you do not contend that
17 there was workable competition in this period, do you?
- 18 A. Period 2, that depends on one -- I do not, no. I mean,
19 I do not contend that period 2 was a period of workable
20 competition, correct.
- 21 Q. You do note the price fall in the last eight months, so
22 to look at period 2 in a little more detail can we just
23 go to the Decision to figure 6.4 at {XA1/1/325}. If we
24 can just enlarge the figure, you are referring, I think,
25 to the period from around January 2012 or February 2012,

- 1 is that right?
- 2 A. Yes, January 2012 is when the 14 -- is the start of the
3 14% price fall for Teva, yes.
- 4 Q. So the reduction you have in mind is from around
5 £25 to £21.90 for Teva and a rather higher figure for
6 Wockhardt; is that right?
- 7 A. That is ...
- 8 Q. So it is fair to say that even in a two-player market,
9 imperfect though competition is, some element of price
10 competition can and here did emerge; is that fair?
- 11 A. Even in a two-player market, some element of price
12 competition can and did emerge, yes -- yes, there is
13 price competition here, in particular from January 2012
14 onwards.
- 15 Q. But can we agree that with prices at £21.90, the earlier
16 price increases from the Teva monopoly period have not
17 been eroded by that interaction, not even close?
- 18 A. Well, if -- I mean, if the question is, is the price
19 still above £2.60, the answer is, yes, the price is
20 still above £2.60, yes.
- 21 Q. Yes. Now if we could go back again to the figure in the
22 CMA's skeleton argument at {XL/3/19} to see what happens
23 next, bottom of the page, please, the figure, we see
24 that in September 2012, Milpharm launches its tablet
25 product, and there is then the rapid and pronounced fall

1 in price through to the end of 2013 -- sorry, the end of
2 2012, rather. It then slows in the early part of 2013,
3 and would you agree that a substantial differential then
4 opens up between Teva on the one hand and Wockhardt and
5 Milpharm on the other?

6 A. So I would agree for the first four months of period 3
7 the prices fall sharply by about 33%, all three of them
8 fall sharply together. I would agree that in the
9 subsequent period there is a price -- a continued price
10 decline for Wockhardt and Milpharm. It is hard to tell
11 from this chart, but this would have been round
12 about August, September, so the prices continue to fall
13 for them, whereas Teva's price stabilises and goes up
14 somewhat peaking in February 2014, which is what I was
15 talking about just prior to the lunch break, and then
16 Teva's price comes back down again and reconnects, if
17 you like, with the -- the differential sort of
18 re-establishes itself, ie the smaller differential
19 re-establishes itself by the end of the period.

20 Q. Well, there is a substantial differential as compared
21 with Milpharm's prices for the entirety of the period,
22 would you not agree, after that initial fall?

23 A. Sorry, the question is there is a substantial
24 differential between Teva's price and Milpharm's price?

25 Q. Yes.

- 1 A. Yes, for most of the period after the initial fall,
2 there is, but that narrows towards the later part of
3 the -- of period 3.
- 4 Q. Wockhardt's -- so Milpharm's price is down between
5 £6 and £8 or thereabouts from mid-2013. Would you
6 agree?
- 7 A. Sorry, Milpharm's was down --
- 8 Q. The grey line?
- 9 A. The grey line. I mean, it is hard to tell precisely
10 from this chart, but it was -- it looks as if it is in
11 the sort of £6 to £8 range from this chart. I mean,
12 I would need --
- 13 Q. And Wockhardt's is down at those levels as well before
14 its prices rise, but on what we know are very low sales
15 volumes. Is that fair?
- 16 A. Well, there is a period of time when that takes place,
17 yes, so here we are looking at sort of from September
18 to -- yes, there is a period of time when Wockhardt's
19 prices are down at that level, yes, a temporary period,
20 but, yes, there is a period of time when that occurs,
21 yes.
- 22 Q. I am grateful. Now, we will come back to discuss
23 period 3 in detail, but can I first ask you to just cast
24 an eye to the right to see what happens in period 4
25 after Wockhardt exits.

1 Can we agree that Teva's prices initially rise
2 preserving a -- or creating or reintroducing perhaps is
3 the most accurate way of putting it, a premium over
4 Milpharm?

5 A. Well, to the extent that that occurs, that looks like it
6 is not occurring until -- it is hard to tell from this
7 chart, because it is sort of squeezed up together, but
8 it does not look like that is occurring until August
9 2015. Prior to that the prices look like they are
10 moving quite closely together.

11 Q. So after about a year, a substantial divergence between
12 the prices returns; is that fair?

13 A. It looks that way, yes.

14 Q. Over the period from the second half of 2015 onwards,
15 Teva's prices decline, as do Milpharm's; is that fair?

16 A. Sorry, from 2017 onwards?

17 Q. From 2015 onwards.

18 A. Apologies. Yes, then, both prices do decline, yes.

19 Q. Yes. By the end of the time series for which data is
20 available the prices have converged at around £5.50?

21 A. Yes, that looks like it.

22 Q. Just to see the continuity of the trend, if we could go,
23 please, in the Decision to {XA1/1/344} which shows the
24 annual ASPs for each of Teva and Milpharm during this
25 period, so you see that, if we could just enlarge table

1 6.10, you see for Teva in 2015 a drop to £13.53; in 2016
2 another drop, £12.62, then down
3 to £10.95, £8.63, £7.86, £7.22 and then £5.87.

4 Then for Milpharm you see a similar downward
5 progression but with Teva continuing to charge a premium
6 from £10.59 in 2015 to £6.86 in 2021. Then to complete
7 the picture if we turn back a page to {XA1/1/343} we can
8 see where the progression leads to at 6.401:

9 "By December 2021 (the latest data the CMA holds)
10 Teva and Milpharm's ASPs have both fallen to £5.58."

11 Now, you agree that this is a price level well below
12 your benchmark price range for period 3?

13 A. I would agree with that. I mean, I would also note that
14 the first CMA statement of objections came out just
15 prior to September 2015 and the first CMA decision was
16 just after September 2016, so I suspect these prices are
17 rather contaminated by those decisions and statements of
18 objections.

19 Q. I would like to consider that with you, but can we first
20 of all just agree that the benchmark price range from
21 period 3 is -- well, the prices that emerged at the end
22 of period 3 are well under half of the top of your
23 benchmark range against which you compare your
24 Pfizer-adjusted ASP, are they not?

25 A. Sorry, the prices for who exactly? So the end of

- 1 period 3, Teva's price would be around --
- 2 Q. Well, they have converged, haven't they, at £5.58, and
3 that is well under half the top of your benchmark range
4 for period 3?
- 5 A. Okay, so your question is the prices -- sorry, can we
6 just see the chart again? I think your question is the
7 price at the end of 2019 is -- thank you --
- 8 Q. The end of 2021.
- 9 A. The end of 2021, yes, that price is lower than
10 the £12.96.
- 11 Q. It is very substantially lower, is it not?
- 12 A. Yes, it is, yes, I agree that it is lower.
- 13 Q. In fact, it is well under half. Take the Teva price: it
14 is well under half the top of your benchmark range, is
15 it not?
- 16 A. The Teva price -- well, my benchmark, half of £13
17 is £7.50 and £5.87 is less than £7.50 -- £6.50, sorry.
- 18 Q. And both Teva and Milpharm are able and willing to
19 continue trading at prices much below your benchmark
20 range; you would agree with that?
- 21 A. Yes, so Teva and Milpharm are able to continue trading
22 at these prices, yes, I agree with that.
- 23 Q. So prices have unwound, albeit slowly, given the
24 two-player situation and perhaps the constraints from
25 continuity of supply to levels much closer to the prices

1 before Teva massively inflated them in 2005 to 2007
2 under conditions of monopoly; is that fair?

3 A. Prices have come down, yes, during this period, I agree
4 with that.

5 Q. It is clearly not right to say that the downward
6 trajectory ended in your period 3, is it?

7 A. Well, I would dispute that because I think we do have an
8 issue, as I said before, about the CMA statement of
9 objections which I suspect would have impacted Teva and
10 that came out in September 2015, so arguably if we look
11 at -- arguably, the entirety of this table is
12 contaminated.

13 MR HOLMES: Let us turn to consider that. I am conscious of
14 the time, sir, and I do not want to -- I can -- this is
15 a short topic, but I do not equally want to put any
16 strain on the shorthand writer. Would you like to take
17 a break now, or --

18 THE PRESIDENT: I think now would be a convenient moment,
19 Mr Holmes, but before we rise, there is just one answer
20 of Dr Majumdar's that I would like to explore with him
21 because it affects my understanding of his evidence.

22 I wonder if we could go in today's transcript back
23 to the passage at [138] {Day9LH1/138:19}.

24 You see -- do you see that, Dr Majumdar? You are
25 being asked by counsel that he is:

1 "Question: ... Not going to discuss what view the
2 Department of Health took of the reasonableness of the
3 resulting price for tablets or for capsules because, as
4 you rightly say [and let us put rightly in quotes, as
5 you 'rightly' say] in your first report, that is not
6 really a matter for you as an expert ..."

7 Now, just pausing there, do you agree that that is
8 not a matter for you as an expert?

9 A. Well, I think, as an expert economist, I can say that in
10 that position, sir, with a -- in essence, a monopoly
11 supplier and a monopoly buyer, economics does have
12 something to say and that in that scenario the outcome
13 of the intervention would presumably be one where the
14 Department of Health would secure a price for itself
15 that at least left itself some consumer surplus if you
16 like, ie it would seem odd to me it would intervene to
17 secure a price that it then did not want to pay, and
18 that would be fitting with a sort of bargaining
19 framework in economics.

20 THE PRESIDENT: Yes, so what you are saying is that on the
21 very specific facts of this case, monopoly seller,
22 monopoly buyer, monopsony, the meeting of those two
23 uncompetitive scenarios results, because they are
24 equally uncompetitive on each side, results in an
25 outcome that is consistent with workable and effective

1 competition, is that what you are saying?

2 A. No, I am not -- so what I am saying is that in
3 a scenario where two parties, let us say a monopolist
4 and a monopsonist have roughly equal bargaining power
5 then, if you like, the bargaining pie available to them
6 will probably be split roughly equally, which would mean
7 that the buyer will come out of that negotiation having
8 secured for itself some surplus, but it will not
9 necessarily mean that we will get a price that is
10 consistent with workable competition, it will just be
11 a balanced outcome assuming they have both similar
12 bargaining positions.

13 Is that clear, sir?

14 THE PRESIDENT: Well, not really, and let me explain why.

15 You are using the outcome of the -- well, let us
16 call it negotiation, but the discussions between Teva
17 and the Department of Health with regard to sodium
18 phenytoin tablets where one gets a drug tariff of £30.
19 You are using that price as an input into the workings
20 that you do in order to say that in fact the prices
21 charged in relation to capsules were the outcome of
22 workable competition. Would that be a fair way of
23 capturing your reasoning process?

24 A. Yes, it is an input because that £30 informs me of,
25 firstly, because I believe that that £30 will be below

1 the monopoly price, that informs me that the monopoly
2 price is above £30, which informs me that when I then go
3 on to look at prices during period 3, they are already
4 very considerably below that monopoly price level.

5 So the fact that there has been a -- as you say, let
6 us call it a negotiation, so both I and Ms Webster agree
7 that this £30 is a constrained price, that suggests that
8 the monopoly price is above that price, so that is
9 a useful input for me to sort of in some senses gauge
10 where even lower prices are, so a £13 price is
11 already £17 below £30 which is already below --

12 THE PRESIDENT: Do not give me too much detail, let us stick
13 to what we are deriving from this £30.

14 So of course I understand that a monopolist, not
15 faced by a monopsony buyer might be able to charge more.

16 A. Yes.

17 THE PRESIDENT: And that would be a monopoly price, but we
18 do not know how high that would be. We have some idea
19 from the market, but we do not know. You are looking at
20 the control that has been exerted by the Department of
21 Health to say that this price of £30, the drug tariff
22 price, indicates something.

23 Now, of course I accept the price could be higher,
24 but do you not have to say a little bit more about what
25 this price is than simply it is lower than the price

1 a monopolist could charge?

2 A. Well, I think it -- I think it is a constrained price,
3 and so it will be --

4 THE PRESIDENT: I accept that. We can agree on that, but
5 you are taking this price and you are then feeding it
6 into your analysis as to what is the outcome of workable
7 competition.

8 A. Yes.

9 THE PRESIDENT: So what you have is a price which is most
10 definitely not the outcome of workable competition,
11 a negotiation between a monopolist and a monopsonist,
12 and you are inputting it. Now, either it is an
13 extremely unreliable input or you must be getting
14 something more out of the interchange between Teva and
15 the Department of Health than simply it is lower than it
16 could be. I mean, really, at the moment, all you are
17 saying is it could have been so much worse, but you are
18 saying more than that, I think.

19 A. I am saying more than that, yes.

20 So in my first report, I estimated that the monopoly
21 price would be around about £46, and the reason I got
22 there is because there was fluctuation of the drug
23 tariff price between £48 and £62, ie always above 48 and
24 it was only when it shot up to £114 that triggered the
25 intervention.

1 So I as an economist looking at that see a period of
2 12 months where the Department of Health says: I am
3 willing to pay more than £48, then I am not willing to
4 pay £114, so that seemed to be the trigger event which
5 suggested to me, as I mentioned in my first report, that
6 the maximum willingness to pay was around £48.

7 I then see the price come down to £30 and conclude
8 that from that that this is a material reduction to
9 a level substantially below the monopoly price, £18
10 below my estimate of the monopoly price, and that is
11 what I explain in AM1. I would also expect this to be
12 a material reduction below the monopoly price because of
13 the bargaining power that the Department of Health would
14 have had as a monopsony buyer, but I do not go so far as
15 to say: but it had the upper hand in the bargains
16 because Teva was also a monopolist itself, so I sort of
17 see that as a balanced negotiation for want of a better
18 expression. So I see that £30 as materially below the
19 monopoly price which I estimated to be about £46,
20 I think, £46, £48 in my first report.

21 So that is generating a lot of, if you like,
22 consumer surplus already.

23 So for me it is a valuable input for that reason.
24 I think even if one disputes that particular point, even
25 if one said: well, actually, £30 itself is the sort of

1 monopoly price, the maximum willingness to pay which
2 I would dispute because I think it is materially higher
3 than that, that then still provides useful information
4 because it essentially says that prices materially below
5 £30 will be generating surplus, ie the difference
6 between the price and £30.

7 So it would be a very conservative estimate of the
8 Department of Health's maximum willingness to pay.

9 THE PRESIDENT: I mean, let us suppose we had a negotiation
10 like this one, Department of Health monopsony buyer, but
11 they have decided for reason of their own to go against
12 a non-monopoly seller, so you have actually got Teva in
13 competition with reams of other people, and the
14 Department of Health just says: well, look, we want this
15 price, and if you do not agree to it, we are just going
16 to go somewhere else.

17 What would you draw by way of inference from that
18 outcome? Would you say that the price was below the
19 price that would be produced by workable and effective
20 competition?

21 A. So just to make sure I am clear on the example, we have
22 an example where the Department of Health approaches
23 Teva and says: I want the price to be X, in the context
24 of the Department of Health having many alternatives to
25 Teva?

1 THE PRESIDENT: In the context of Teva not being
2 a monopolist, that is the key assumption that I am
3 changing.

4 A. That would give the Department of Health a greater
5 degree of bargaining power, which means that the price
6 that the Department of Health would get would -- I would
7 expect it to be a lower price than were Teva
8 a monopolist, but whether or not one would call that
9 a price consistent with workable competition I think
10 would depend just how much choice the Department of
11 Health had. So it may be if it had two or three
12 alternatives, that would be sufficient. I mean, one
13 would need some more information.

14 THE PRESIDENT: Well, no, I mean, what I am putting to you
15 is let us say the Department of Health just picks on
16 someone who is already in a competitive market and
17 says: we want a price that is 3p.

18 A. Right.

19 THE PRESIDENT: We are going to screw you, basically. Now,
20 you would say that is not the outcome of workable
21 competition. You have an abuse on the other side of the
22 equation by the Department of Health in this instance.

23 A. I see, yes.

24 THE PRESIDENT: You see that?

25 A. Yes, I see that, yes.

1 THE PRESIDENT: Right. So you would say that that would not
2 be a sensible input to use if you were trying to derive
3 in a related market what was the outcome of workable
4 competition?

5 A. In that particular example, yes.

6 THE PRESIDENT: Right. So clearly in your reasoning the
7 fact that Teva is a monopolist is a relevant factor?

8 A. Yes, the fact that Teva is a monopolist in its dealings
9 with the Department of Health, yes, that is relevant,
10 yes.

11 THE PRESIDENT: So what you have is, if you like, the
12 irresistible force meeting the immovable object.

13 A. Yes, sir.

14 THE PRESIDENT: Is what you are saying the fact that there
15 is equal but not competitive power, there is effectively
16 super dominance on both sides, is the effect of that to
17 produce an outcome which you use as a proxy for the
18 outcome of workable competition, which is why you take
19 it into your workings in order to work out whether the
20 prices in the capsule market are in fact workably
21 competitive prices?

22 A. I do not use the £30 as an estimate for workable
23 competition.

24 THE PRESIDENT: So what do you use it for?

25 A. I use the £30 as a way of firstly, understanding the

1 sort of price that would emerge were there monopoly. So
2 what we have just discussed is that here is a scenario
3 where Teva as a monopolist is facing a very powerful
4 buyer. So in that world, if Teva's price is 30, that is
5 a lot lower, or is likely to be a lot lower than were it
6 to face a weak buyer that could not constrain it. Hence
7 the monopoly price will be above £30.

8 THE PRESIDENT: Right. The maximum monopoly price?

9 A. Yes, the maximum willingness to pay I would estimate to
10 be about £46, £48.

11 THE PRESIDENT: So are you saying that this is still
12 a monopoly price, just lower than the maximum that
13 a monopolist could charge?

14 A. It is a very constrained monopoly -- it is a monopoly
15 price in the sense that it was determined when Teva was
16 a monopolist, but I would not call it a monopoly price
17 because it is a constrained price by the buyer power of
18 the Department of Health.

19 THE PRESIDENT: Yes. So my question -- clearly you are
20 saying something about the £30 in your evidence, and
21 that is entirely fine; it is a question of what you are
22 saying, and I suppose if one is attaching a label to
23 this, is the label that this is a monopoly price just
24 not as bad as it might have been because of the
25 Department of Health's power or it is something else?

1 What is your description of the outcome of the
2 negotiation between the Department of Health and Teva in
3 this instance?

4 A. So my description is that this is a very conservative
5 estimate of the maximum willingness to pay for the
6 Department of Health. So that will in some senses be
7 your -- because the -- because it is a constrained
8 price.

9 So one can infer from the fact that the Department
10 of Health intervened to generate this price, in my
11 opinion, that it was gaining some value above that
12 price, and so this is a conservative estimate of its
13 maximum willingness to pay, and I think that is a useful
14 input for two reasons.

15 The first reason is because that is important
16 context for when I then go and look at prices in
17 period 3, because if this £30 is at a level that is
18 below the monopoly price, well, when I see prices of £13
19 I am much more confident that they are consistent with
20 workable competition because they are so far below my
21 conservative estimate of the monopoly price. So that is
22 the first way that I use the £30, as a contextualiser to
23 put the £12.96 into context.

24 Then the second way that I use it, which is the way
25 I was presenting it during the teach-in, is to say:

1 well, look, if this is a conservative estimate of the
2 Department of Health's willingness to pay, and we want
3 to understand consumer surplus available beyond -- for
4 those buyers downstream of Flynn or downstream of Pfizer
5 with its adjusted price, then the difference between,
6 say, Flynn's price and that £30 is essentially what is
7 available for wholesalers to cover their cost, for
8 pharmacies to cover their costs, with some left over for
9 the Department of Health.

10 So it is a way of understanding additional surplus,
11 you can call it consumer surplus if you like, additional
12 consumer surplus for those further downstream from the
13 distributor level.

14 So those are the two different ways that I am using
15 this price to inform my assessment.

16 THE PRESIDENT: Thank you very much, Dr Majumdar. It may be
17 that Mr Holmes has some questions arising out of that,
18 but we will save those for after the break.

19 We will resume in 10 minutes' time.

20 (3.39 pm)

21 (A short break)

22 (3.53 pm)

23 THE PRESIDENT: Mr Holmes.

24 MR HOLMES: Thank you, sir. I was going to return,

25 Dr Majumdar, to a point that you raised with me, and

1 that is your reason for disregarding period 4.

2 Now, this is canvassed in annex C of your first
3 report. Could we go to that, please? It is at
4 {XE1/4/49}.

5 Do you see that the title is:

6 "Assessment of tablet ASPs in later periods."

7 You explain that you do not assess Pfizer's ASP
8 against Teva's price in the period after July 2014, and
9 you give two reasons:

10 "First, Wockhardt exited the market in July 2014,
11 which marked the end of the period of three player
12 supply."

13 But just pausing there, we agreed when discussing
14 the final part of period 2, which was also a two-player
15 period, that there can be price falls, price competition
16 with two players in the market; is that a fair
17 observation?

18 A. There can be. I think the context around the January
19 price decline, so this is January 2012 to August 2012
20 where Teva's price fell by 14%, my understanding is that
21 it is partly influenced by the anticipation of Milpharm
22 coming in, and now this is something that the CMA itself
23 identifies in its remittal decision, I think it is about
24 paragraph 6.354, or something like that, but I think
25 that one has to understand that 14% price decline at the

1 end of period 2 partly in light of anticipation of
2 Milpharm's entry, or the continuity of supply guidance,
3 I cannot remember which, but it is at 6.354, I think
4 there is anticipation of that future event, so therefore
5 Teva was seeking to gain volumes in anticipation either
6 of entry or the continuity of supply guidance.

7 Q. I see, so you think that the period in the run-up to
8 Milpharm's entry may already be affected by the
9 expectation of Milpharm entering and that might explain
10 the price falls at the end of period 2, is that your
11 point?

12 A. It is a possible explanation for the 14% price fall. It
13 is a factual point. I do not have the full details, but
14 that is a possible explanation.

15 Q. But you would not exclude that prices might fall in
16 a two-player setting as well?

17 A. I would not exclude that, no.

18 Q. Secondly, you suggest that Teva appears to have reduced
19 its pricing soon after the CMA's first statement of
20 objections being issued to Pfizer in August 2015, and at
21 the foot of the page you say that:

22 "It can be presumed that Teva was aware of the CMA's
23 investigation into Pfizer's pricing after this point
24 [given the] press release ... [in] August 2015."

25 And:

1 "Due to the risk that tablet prices were influenced
2 by the CMA's investigation, I do not consider them
3 reliable for benchmarking purposes."

4 In support of that presumption or inference you rely
5 on the correlation between the timing of the first CMA
6 statement of objections and the fall in Teva's price
7 shown in figure 6; is that right?

8 A. That is correct.

9 Q. You can see that from the second vertical line, "First
10 CMA SO", and then you see prices declining after that
11 point, but you are not aware of any actual evidence from
12 Teva to show that its pricing decisions were influenced
13 by the CMA's investigation?

14 A. No, I am not.

15 Q. So this is just supposition on your part?

16 A. It is.

17 Q. Can we keep in mind the August 2015 date which you have
18 marked in figure 6 and then go back to the figure in the
19 CMA skeleton argument at {XL/3/19}.

20 The point I want to -- so it is the bottom half of
21 the screen, please, if we could enlarge that. The point
22 I want to put to you is that the Teva line is not really
23 consistent with a sudden decision to price low, is it?

24 So on the contrary, you see that Teva raises its
25 prices after Wockhardt exits and then trims them and

1 then raises them again, then trims them, and so on.

2 Now, if Teva were pricing in the shadow of the
3 investigation, would you not expect them to cut price
4 decisively and then maintain the lower pricing?

5 A. Not necessarily. I think it is hard to predict just how
6 a firm would, in light of the CMA statement of
7 objections, change its price. So my understanding is
8 that Teva was providing evidence to the CMA, so
9 presumably was aware that this was going on.

10 As I say, I notice that it looks as if it is more or
11 less straight after the statement of objections coming
12 out Teva's price falls. As I say, it is not obvious to
13 me that Teva would necessarily just drop its price to
14 a lower amount. One does not know how firms would react
15 to -- I think it is hard to predict how a firm would
16 react to the knowledge that the CMA was investigating in
17 terms of whether it would just allow its price to
18 decline gradually versus drop it immediately. That --

19 Q. But it bumps up and down which suggests there were other
20 factors affecting its pricing, do you not think?

21 A. Oh, I think that is noise in the series. I think we
22 have seen -- I mean, we can see this in front -- I do
23 not know if you still have this chart in front of you
24 now. There is lots of spikes in the series, and that is
25 quite normal, so I would not read too much into the

- 1 bumping up and down.
- 2 Q. But there also seems to be quite a close correlation in
3 the bumps between the Teva and the Milpharm lines with
4 Milpharm going first and Teva then reacting or
5 responding; would you not agree?
- 6 A. No, I would not agree. I do not think you can read that
7 into this pricing series. There is too much noise in
8 these series for us to be able to read in -- read that
9 into it.
- 10 Q. But the data certainly do not fit with your explanation
11 of a sudden and pronounced regulatory price cut which is
12 then maintained, do they?
- 13 A. Well, not a sudden and pronounced price cut, no, but it
14 is noticeable that as soon as the CMA statement of
15 objections is announced, Teva's price falls, so --
- 16 PROFESSOR WATERSON: Could I just ask, Teva's price falls,
17 you say, because they were influenced by the CMA
18 investigation?
- 19 A. I cannot say it is because.
- 20 PROFESSOR WATERSON: No, but this is your supposition?
- 21 A. Yes, sir.
- 22 PROFESSOR WATERSON: So then why would that happen? Are
23 they nervous about their price?
- 24 A. The point is that I think that in a world where --
25 I mean, prices were increasing up to that point, and so

1 the question is why did they suddenly stop increasing
2 and start to come down again, and one possible
3 explanation is because of the CMA statement of
4 objections. I am not going any further than saying
5 that. I notice that prices were going up and I notice
6 that the peak is just prior to the statement of
7 objections coming out and I say that a possible cause
8 then for these lower prices is a -- is that the
9 knowledge of the CMA investigation influenced prices.
10 I am saying no more than that, but that seems to me
11 a reason why those prices could be contaminated.

12 PROFESSOR WATERSON: Thank you.

13 MR HOLMES: But it seems a little extreme, would you not
14 agree, Dr Majumdar, to discount the after-period
15 completely based on a supposition as to one possible
16 explanation?

17 A. I would not say it is extreme. I mean, I would agree
18 that I have focused on period 3 for my assessment of
19 workable competition. I would place less weight on
20 events after period 3 for the reasons I say here.

21 Q. But you have placed no weight on it at all, have you?

22 A. In my analysis, no, I have not, I have not placed weight
23 on this period, no.

24 Q. If one takes the period 4 data into account, they show
25 that the levelling off at the end of period 3 is merely

1 a temporary plateau on a longer run downward trend, do
2 they not?

3 A. Well, not necessarily. We do not -- what we see during
4 period 3 is we see a sharp price fall, we see the exit
5 by Wockhardt at the end of period 3 and then we see
6 prices go up for 12 months, potentially because there
7 are only two suppliers instead of three, and then after
8 prices going up quite consistently for what looks like
9 12 months, they suddenly start to go down again.

10 So I do not think we can necessarily -- I do not
11 think we can say this is an extension of a trend, no.
12 There seems to be something going on that turns an
13 upward price trend into a downward price trend, but we
14 do not know what that is, and I suggested that one
15 reason might be the CMA investigation.

16 Q. I showed you the annualised price trend in the table; do
17 you recall that?

18 A. I do.

19 Q. In each year, prices drop for both Teva and for
20 Milpharm.

21 A. Yes, I mean, we can see that here post the peak.

22 Q. So prices continue to decline on a year-on-year basis to
23 levels which are under half the top of your benchmark
24 range based on period 3. That is right, is it not?

25 A. Prices after 2015 did decline, yes, I agree with that.

1 Q. At the very least, what the period 4 data show is that
2 both Teva and Milpharm were able to continue supplying
3 tablets at prices far below your period 3 benchmark
4 range, would you agree?

5 A. I would agree with that, yes.

6 Q. Can we focus now on period 3, the three-player period,
7 and we have discussed the first part of
8 period 3, September to December 2012, when you describe
9 a period of unwinding of the previous duopoly pricing.
10 Can we agree that the prices are falling from levels
11 which are coloured by the lack of previous competition
12 during that period?

13 A. We can agree that in period 2 up until December 2011 the
14 prices for Teva and for Wockhardt were, if you like,
15 bumping around £26 at a constrained level, because they
16 had been constrained by the prior intervention by the
17 Department of Health.

18 After that point, we can agree that there is an
19 intensification of price competition, so
20 from January 2012 onwards, and what that price
21 competition does is it erodes, if you like, the duopoly
22 pricing that occurred prior to that point, ie in
23 period 2 up until the end of December 2011. So, yes,
24 then there is a period of price erosion.

25 Q. Prices during this period are very clearly a staging

1 point on a journey as previous monopoly and duopoly
2 prices unwind; would you agree?

3 A. Well, I agree that the sharp price falls at the
4 beginning of period 3 were moving us to, if you like,
5 from a duopoly to a triopoly position. I am not sure
6 I would go beyond that in stages and journeys and what
7 have you, but I would agree that sharp price fall took
8 the tablet market into a triopoly position.

9 Q. And including the prices during that unwinding period
10 would distort the benchmark by including price levels
11 that are not yet the outcome of normal and sufficiently
12 effective competition?

13 A. Well, I think it depends on your view of workable
14 competition. So I would say that workable competition
15 starts at the beginning of period 3, so we see that
16 eight-month period where the price competition starts to
17 warm up, for want of a better expression, then we go
18 into period 3, we have this sharp price fall which
19 strikes me as competition taking place, and so I think
20 it is not -- well, I think it is reasonable to include
21 them.

22 Now, I did sensitivity test this point in my first
23 report. So the reason that I presented two lines in
24 table 1, if you like, two rows in table 1, is the first
25 row is looking at the period as a whole, which gives you

1 the £12.96 for Teva, and then the second row is where
2 I say, well, let us sensitivity test -- let us exclude
3 the first four months of period 3 because if we are
4 transitioning from duopoly to triopoly let us see what
5 happens if we exclude that period, and let us exclude
6 the period after the continuity of supply guidance, and
7 what we see is that actually there is not much
8 difference, the difference is only about 40p. So that
9 sensitivity testing suggested to me that there was not
10 really much of a distortion that I would need to worry
11 about, so ie I think it is fine to include the first
12 four months and then when I sensitivity test the impact
13 of including those first four months, the difference is
14 about 40p which reaffirmed my view that I was not doing
15 anything, if you like, untoward, for want of a better
16 expression.

17 Q. But once you have removed the distortion, as you put it,
18 its the lower of those two lines that one should place
19 more weight upon?

20 A. Well, I am not saying that you should place more weight
21 on the lower line, what I am saying is that I have
22 sensitivity tested or -- yes, sensitivity tested the
23 approach of looking at the period as a whole to looking
24 at a narrower period, and it does not make much
25 difference, 40p being the -- yes, 40p being the

- 1 difference that it makes.
- 2 Q. Can we consider the significance that you attribute to
3 continuity of supply when you analyse this period? Just
4 to check that we are agreed about what that means, you
5 are referring here to guidance that patients should be
6 maintained on a particular manufacturer's product; is
7 that right?
- 8 A. That is my understanding.
- 9 Q. As you explained in response to a question from the
10 President, you are aware that there was guidance to that
11 effect in place since 2004?
- 12 A. Yes, my understanding is that there was guidance to that
13 effect. I am not aware of whether that was a more
14 forceful guidance, but I am aware that there was
15 guidance to that effect in place.
- 16 Q. So it was not introduced for the first time with MHRA
17 guidance in November 2013?
- 18 A. Not to my knowledge, no, no.
- 19 Q. Now, as you explained earlier, if prescribers and
20 dispensers stuck strictly to a particular manufacturer's
21 product, there would be no switching away at all from
22 that manufacturer's product for those patients who were
23 stabilised upon it. That is right, is it not?
- 24 A. Yes, if -- yes, if patients only ever stick to the
25 product they are already on, then by definition there

- 1 will be no switching.
- 2 Q. Yes. Would you agree that to the extent that the
3 guidance did play a role, it would confer a particular
4 advantage on the incumbent producer, Teva?
- 5 A. It would -- yes, in the sense that if there is no
6 switching from Teva, then Teva as the incumbent is --
7 well, it is less likely to lose its customers, so in
8 that sense there is an advantage to any incumbent in the
9 market at the time has the benefit of the guidance
10 saying that if you stick -- if the guidance is adhered
11 to, then there will be no switching away of customers
12 from the supplier.
- 13 Q. So just to break that down, as we have discussed, Teva
14 was for many years a monopolist in the supply of
15 tablets, and all of the existing patients who began
16 treatment during that period will have been stabilised
17 on tablets manufactured by Teva. That is right, is it
18 not?
- 19 A. I would think so, yes.
- 20 Q. You accept, I think, that phenytoin was by the time of
21 the relevant period very rarely prescribed to new
22 patients due to its status as a third line
23 anti-epileptic drug. That is correct, is it not?
- 24 A. That is my understanding.
- 25 Q. Yes. To see the role played by continuity of supply,

1 can we please consider a document at {XH/144} together.

2 So starting at page {XH/144/1} you see this is the
3 note of a call between the CMA and Wockhardt on
4 17 November 2020. Is that large enough for you to be
5 able to read it?

6 A. I would be grateful if it could be enlarged a little bit
7 more, please.

8 Q. Yes, I am similarly struggling, I am afraid. None of us
9 are getting any younger. You see that the Wockhardt
10 attendees included DG, national sales manager at
11 Wockhardt. Do you see that? It is the first bullet
12 under Wockhardt?

13 A. Yes.

14 Q. Just to check, have you seen this document before?

15 A. Not to my knowledge.

16 Q. Okay, that is helpful. So I will give you time to
17 review it carefully, but turning to page {XH/144/2},
18 could we enlarge paragraphs 8 to 10, please. You see
19 the heading:

20 "Continuity of supply."

21 And then:

22 "DG [the national sales manager] said with phenytoin
23 there are ethical considerations. Due to the nature of
24 the therapeutic area, patients should not switch from
25 one product to another. So even if Aurobindo [that is

1 Milpharm] began to challenge Wockhardt's prices and
2 Wockhardt's Tablets were priced higher, patients should
3 stay with the original formulation that they are on.

4 "DG said that companies like Phoenix may want to
5 stay with a particular manufacturer's presentation and
6 then a new entrant manufacturer would need to go
7 elsewhere to seek market share."

8 "DG explained that big wholesalers are likely to be
9 more 'ethical' and take account of the guidance and
10 therapeutic area of Tablets. As such, Milpharm was more
11 likely to challenge for the short-line wholesalers who
12 mainly serve the independent pharmacies. Short-line
13 wholesalers are more sensitive to price as independent
14 pharmacies are more likely to switch based on price."

15 Now, Wockhardt's experience as described here would
16 tend to confirm your view that continuity of supply
17 guidance would raise barriers to expansion in relation
18 to some customers; would you agree?

19 A. I would agree that, yes, for some customers, yes.

20 Q. The suggestion here is that big wholesalers were more
21 likely to take account of guidance and not supply their
22 pharmacies with products from a new and different
23 source, is that right?

24 A. If that is what it --

25 THE PRESIDENT: Mr Holmes, I think we probably need to

1 proceed on the basis that this document says what it
2 says, and, Dr Majumdar, you obviously cannot have a view
3 one way or the other, so proceed on the basis that what
4 is said here represents DG's views and is representative
5 of the market as it stood, and it will be for us to
6 decide whether that is in fact the case.

7 What counsel put to you is the consequences of that
8 assumption on your expert economic analysis of what is
9 going on in the market, so do not worry about this being
10 right or wrong, you have no skin in that particular
11 game, but do worry about the implications of these
12 statements on your analysis of the market.

13 I hope that helps.

14 A. That is a very helpful clarification, thank you, sir.

15 THE PRESIDENT: Mr Holmes.

16 MR HOLMES: In the same vein, and again, looking for your
17 economic views of what this evidence shows, can we also
18 consider another document relating to the perspective of
19 the other new entrant, Milpharm. That is at {XG/462}.

20 Can you see at page {XG/462/1} this is a note of
21 a called between the CMA, this time with Milpharm, if we
22 can enlarge the top of the page, please, on
23 25 February 2021, and for the context you see that one
24 of the attendees was Stephen White, and at paragraph 2
25 you see that he worked at Milpharm from June 2010

1 until January 2021 as a national account manager.

2 If we then turn on to page {XG/462/2} to see what is
3 said of relevance. You will see that there is again
4 a discussion in the middle of the page, if we could
5 enlarge paragraphs 12 to 14, of the "Impact of NICE and
6 MHRA guidance."

7 A CMA attendee asks:

8 "... how widespread switching resistance to
9 switching due to the NICE guidance was."

10 In response:

11 "SW explained that this was his experience with ...
12 customers. He noted [a] conversation with a buyer at
13 the Co-op, he was told that Co-op would not switch no
14 matter what the commercial offering, not even if the
15 product was offered at £1, because the superintendent
16 pharmacist would not agree. SW explained that this was
17 not necessarily the same for all customers and that some
18 will follow guidance more rigidly and others will be
19 more tempted on price."

20 So again, would you agree that this shows that in
21 relation to some potential customers, continuity of
22 supply guidance would act as a barrier to expansion for
23 the newer entrant suppliers?

- 24 A. On this basis, yes, I would agree that the guidance
25 would be a barrier to expansion.

1 Q. Indeed, the ethically inclined customers, described
2 here, would be uncontestable at any price from this
3 note, they would not buy even at a pound. That is what
4 the perception of Milpharm as a market entrant was at
5 the time. Do you agree?

6 A. Well, that appears to be what is said here. I mean,
7 I would say that will not be the same -- I would not
8 expect that, and I understand it did not apply for all
9 customers. I am looking at footnote 58, for example, of
10 my first report where it is Teva's internal
11 monthly September 2012 statement which states that:

12 "Phenytoin now has third competitor, Aurobindo ...
13 who are being very aggressive on price in order to gain
14 business before the [Department of Health] advise[d]
15 that patients do not switch their medication. In order
16 to keep our Boots business we have reduced their price
17 from --"

18 I am not sure I am allowed to say the number so:

19 "In order to keep our Boots business we have reduced
20 their price from [X to Y]."

21 So it seems to me that there were other customers.
22 Even if maybe they -- that were using this as
23 a negotiation tactic to secure lower prices. So it
24 would seem that there are customers that are nonetheless
25 using the availability of other suppliers to negotiate

- 1 lower prices.
- 2 Q. But insofar as there were pharmacy customers who would
3 not switch at any price, as is suggested in the note,
4 those customers were uncontestable. Would you agree?
- 5 A. Well, by definition, if they would not switch at any
6 price, then they would be uncontestable. They may
7 bluff, they may pretend they would switch in order to
8 get a lower price and use that as a negotiation tactic,
9 but by definition, as you put it, there is no scope to
10 supply them if you are not already supplying them.
- 11 Q. Now can we consider the impact of continuity of supply
12 on the evolution of prices and volumes during period 3.
- 13 If we could please display two pages from the
14 Decision alongside one another. They are {XA1/1/330}
15 and {XA1/1/331}. If we could start with the volumes on
16 the right-hand side, Teva is the blue and if we could
17 look at the period from quarter 3 2012 through to
18 quarter 2 2014, that is period 3, would you agree?
- 19 A. Yes, so -- yes, Q4 2012 to Q2 2014, yes.
- 20 Q. Yes. Now, would you agree that during this period, Teva
21 has the lion's share of the volumes sold?
- 22 A. Yes, the majority I would agree with that point.
- 23 Q. Would you agree also that its volumes in absolute terms
24 look very stable over that period?
- 25 A. In absolute terms, yes, I would. There is a dip in

1 Q1 2014, but, yes, prior to that, they look pretty
2 stable.

3 Q. If we look across at figure 6.5, as we have discussed
4 after the initial drop, Teva is able to price at
5 a substantial premium over Wockhardt and Milpharm. That
6 is right, is it not?

7 A. Well, I think there are two things, I suspect there are
8 two things going on here. So the drop in price for
9 Wockhardt and Milpharm could well be -- and this is
10 a factual point that of course the Tribunal will test,
11 but could be them seeking to gain volumes in advance of
12 the guidance, if you like, formally coming into place.
13 Now, that would be a reason for them to lower prices
14 more aggressively at that particular point in time, and
15 it may be that Teva felt that the guidance would protect
16 it and so it is possible that at the same time you have
17 Teva slightly taking its foot off the gas and the other
18 two putting their foot on the gas, but the point that
19 I made earlier on is that is a short-lived period of
20 time and then after February 2014 it looks like on the
21 chart Teva's price then comes down and Milpharm's price
22 comes up, it looks like the pricing strategy then
23 switches, so it is a temporary pricing strategy prior to
24 the continuity of supply guidance that then switches
25 back to the old strategy that one sees prior to that

1 point.

2 That is, I think, how I would interpret the grey and
3 the blue lines that we see on the left-hand side.

4 Q. But just to recap, we agreed, I think, that continuity
5 of supply guidance was in place for the entirety of this
6 period?

7 A. Yes, as I understand it the guidance was in place, but
8 my understanding is that the fact that we have the MHRA
9 guidance coming out in November 2013 somehow dialled it
10 up a notch. Again, it is a factual point that I am sure
11 the Tribunal will explore, but if you look at some of
12 the statements it appears that this is a sort of
13 hardening of the -- this is potentially a sort of
14 firming up of the guidance or at least that was
15 perceived as a risk that the guidance would be adhered
16 to more strictly afterward.

17 Q. Is not a plausible explanation of the data we have seen
18 here the stable volumes for Teva and the price
19 differential which emerges, that the market has
20 bifurcated to some degree with Wockhardt and Milpharm
21 chasing the price sensitive or contestable pharmacies
22 and Teva in part serving the pharmacies with ethical
23 concerns about switching?

24 A. It is a possible explanation, yes. I mean, I think that
25 is a possible explanation, but the point, as I said

1 before, is this is quite a temporary divergence, so what
2 I see is there is close -- you know, there is a sharp
3 price fall, these price series, the blue, the yellow,
4 the grey, Wockhardt, Teva, Milpharm, they are moving in
5 a very similar way, and then there is a temporary
6 divergence and then they start moving in the same way
7 again.

8 So it is possible, but it is also possible that it
9 was just a temporary change in strategy and there was
10 a reversion to the old strategy where the prices moved
11 very closely together.

12 Q. But the combination of high stable volumes for Teva,
13 despite a significant price premium, and the continuity
14 of supply guidance in the market suggests that Teva is
15 to a material extent insulated from competition.

16 A. Well, I do not agree with that because Teva lowered its
17 price by such a large amount I think I find it hard to
18 come to a view that it was insulated from competition.
19 If it was so insulated, it really should have left its
20 price where it was, but it did not, it lowered its price
21 by 14% in the run-up to period 3 and then by a further
22 50% plus during period 3, 61% over that period. So, no,
23 I do not think Teva was insulated from competition.

24 Q. But just to be clear the prices here, as you say, the
25 ASPs, they reflect a combination of all of the

1 individual price negotiations with customers in the
2 market. I think that was a point that you helpfully
3 clarified this morning. That is right, is it not?

4 A. Yes, the ASPs are indeed a weighted average across
5 customers as I understand them, that is right.

6 Q. Those are individually negotiated, and they are opaque,
7 are they not, is that right, they are not transparent to
8 others in the market?

9 A. As I understand it they are individually negotiated and
10 the final price would be private information, although
11 you do see in the CMA's Decision there are references
12 to, for example, Teva having a rough idea where
13 Milpharm's price to Boots, for example, would be and
14 hence lowering its price substantially to meet what it
15 perceives to be the offer that Milpharm was making. So
16 there is some notion of where prices might be, even if
17 it is not 100% clear.

18 Q. If you look at the period in which prices for Teva fall,
19 that coincides with the increase in price from Wockhardt
20 as it radically reduces its volumes. Do you agree?

21 A. Sorry, what period of time are we?

22 Q. We are looking now from the start of 2014, do you see at
23 that point, this is the point when Wockhardt's volumes
24 drop substantially, is it not?

25 A. Wockhardt's volumes do drop in 2014, I agree with that,

- 1 yes.
- 2 Q. So is this not plausibly explained by Teva picking up
3 volumes from Wockhardt among contestable pharmacies?
- 4 A. Sorry, you say is this not explained; is not what
5 explained?
- 6 Q. The reduction that you see in Teva's ASP, could it not
7 reflect Teva competing for contestable pharmacies as
8 Wockhardt exits the market?
- 9 A. It could do, yes, that is possible.
- 10 Q. It could do that while still maintaining high prices for
11 its uncontestable share of the market, could it not?
- 12 A. That is possible. I mean, we would have to look at the
13 granular data to test it.
- 14 Q. Insofar as --
- 15 A. Actually, sorry, may I comment on -- it is possible, but
16 then thinking about it, if the contestable volumes are
17 relatively few, that will not bring down the price, so
18 this must have occurred over quite a substantial share
19 of Teva's volumes for it to be a large enough impact to
20 bring down the price by such a degree, so that suggests
21 to me that it was doing more than just competing for
22 contestable volumes and probably offering its larger
23 customers a better deal as well. That is what I would
24 infer from such a large fall in the average selling
25 price.

1 Q. So pulling the threads together, insofar as weight is to
2 be afforded to price levels achieved in period 3, it is
3 the period after the unwinding of the duopoly price
4 which should be afforded more weight, that is to say the
5 second line in your table 1. Do you agree?

6 A. No, I do not agree with that. I mean, as I said before,
7 I think that workable competition was occurring
8 throughout the period. If the Tribunal were to want to
9 exclude that particular period, either as a sensitivity
10 or because that was their preference, then they would
11 look at the second row of table 1 in my first report.
12 However, that would not be my preferred approach. My
13 preferred approach would be to include the entirety of
14 period 3 as being consistent with workable competition.

15 Q. Within the range that you present, the market-wide ASPs
16 give a better measure of the market-wide prices
17 generated during the relevant period than a top-end
18 estimate based on only one supplier?

19 A. Well, it does depend what you are trying to understand.
20 So if you want a market-wide average then the
21 market-wide average selling price is a better measure
22 because by definition it is a weighted average of all of
23 the prices in the market. So the market-wide ASP is
24 a better measure of the market-wide price. However, if
25 you are, for example, wanting to understand the range of

1 prices consistent with workable competition, then what
2 I say is because Teva, in my opinion, was constrained by
3 Milpharm and by Wockhardt throughout the entirety of the
4 period, it was subject to workable competition, and,
5 therefore, its price is a relevant price to consider as
6 one consistent with workable competition. So I think it
7 is a relevant price to include. I would not -- as
8 simple as that, I think it is an important price to
9 include.

10 Q. It is not only a price that you include; it is the only
11 price that you compare against your adjusted ASP, is it
12 not?

13 A. No, that is not correct. I -- in section 2 of my first
14 report, it is the only price that I compare, but, as you
15 were mentioning to me earlier on, I then do some
16 sensitivity analyses where I consider other prices which
17 I compare as sensitivity tests against the Pfizer
18 adjusted price.

19 Q. So given -- well, if the Tribunal were to conclude that
20 Teva's status was insulated from competition in view of
21 its high volumes and prices, reflecting the protection
22 afforded to it by continuity of supply, the central
23 focus should be on the non-Teva ASP; would you agree?

24 A. No, because if the issue is that Teva was to some
25 degree -- yes, if the issue is Teva was to some degree

1 insulated from competition because on your hypothesis
2 there were some customers for which Teva had, if you
3 like, guaranteed demand, then what I would want to do is
4 to go into the data, assess the extent to which that
5 applies, then I would still find it useful to understand
6 the price that Teva was charging for the customers whose
7 demand did not seem to be captive to Teva.

8 So I would not simply discount Teva's price, I would
9 want to understand more from the data to see if this
10 captive demand is a valid hypothesis.

11 Q. All of the price points in table 1, to construct your
12 benchmark range, need to be treated with some caution
13 given the significant further falls in price that have
14 been observed over the course of period 3 and in
15 subsequent periods.

16 A. So I would not agree with that either. I mean, again,
17 it really -- in some senses, it depends on your
18 definition of workable competition because if by
19 "workable competition" you are looking for the lowest
20 price that we can see in a market, then, yes, look at
21 what happened after the end of period 3, but actually if
22 you are trying to understand workable competition in
23 a different way, ie a way where there is a market where
24 there is no dominance and there is a market where there
25 is no collusion, the fact that we observe lower prices

1 at a point in time does not rule out that the higher
2 prices earlier on were inconsistent with workable
3 competition.

4 We can have -- if the range of prices consistent
5 with workable competition is broad enough, then you can
6 have fluctuation within that range, you can have higher
7 prices, lower prices. So the fact that a lower price is
8 observed does not mean that the ones that I am looking
9 at in period 3 cannot be consistent with workable
10 competition.

11 Q. There are quite a lot of double negatives in that, but
12 would you accept that prices following a period of
13 monopoly when prices have gone very high might still be
14 contaminated by the effects of that monopoly pricing
15 subsequently after competitive entry?

16 A. Okay, so conceptually, yes, that is possible, and
17 I address that in my position paper where I acknowledge
18 the tablet price went up to -- well, the tablet price
19 went up to I think it was £51.25 or something,
20 in October 2007, and that is a contamination, but then
21 there is the decontamination event which is when the
22 Department of Health intervenes and the price drops
23 from £51.25 to £26, so that is in one -- well, in the
24 space of 12 months, removing a very substantial part of
25 the prior higher price.

1 Then, as I explained in my teach-in, there is
2 a period of time when prices stay at 26 and then we have
3 a further reduction in prices, if you like, a further
4 decontamination, just prior to period 3, and then we
5 have the price declines in period 3.

6 So I accept the concept that you can have
7 decontamination -- sorry, I accept the concept that you
8 can have contamination from prior higher prices -- a bit
9 of a tongue twister, prior higher prices -- but in my
10 opinion the decontamination events that I have mentioned
11 allow me to conclude that period 3 was consistent with
12 workable competition.

13 Q. The substantial subsequent price reductions do not give
14 you pause for thought that the decontamination might not
15 have concluded by September 2012?

16 A. Well, I do not consider that Teva was dominant during
17 period 3, and so I consider the prices we observed
18 during period 3 to be consistent with workable
19 competition, so, yes, I accept that you can have lower
20 prices because there are a range of prices consistent
21 with workable competition, and so the, let us call them
22 period 4 prices, the ones after period 3, yes, they are
23 lower, but it does not mean that the ones during
24 period 3 were not consistent with workable competition.

25 Q. Looking at the output of the process of competition that

1 you have considered over the course of period 3, by the
2 end of that period, Teva's ASP stood at £9.82
3 in July 2014. That is right, is it not?

4 A. In July 2014, £9.82, that sounds right, yes.

5 Q. Yes, I took it from your report, so I am sure it is.
6 I know you are very careful about these things.

7 A. Spot on then.

8 Q. The market-wide ASP was £9.65 at the end of period 3.

9 A. Yes.

10 Q. And in period 4, as we know, the prices fell to £5.50
11 without provoking any exit. It is all correct, is it
12 not, as a matter of fact?

13 A. That sounds -- I will take that -- I will proceed on the
14 basis that those are correct figures.

15 Q. Those data points are all at or below the bottom end of
16 your benchmark range, are they not?

17 A. Yes, they are.

18 Q. Yes. Now, can we return now to the comparisons that you
19 draw based on --

20 A. Sorry, sorry, just a point -- sorry, your question was
21 all of those are -- they are all below the £12.96?

22 Q. No, no, no, my question was they are at or below the
23 bottom end of your benchmark range. So if we go back to
24 your report, first report, figure -- table 1.

25 A. Right, so you are benchmarking against £9.63, you mean?

1 Q. Yes, so the benchmark range was from the non-Teva ASP
2 during January 2013 to October 2013 of £9.63 running up
3 to the Teva ASP in the whole of period 3 of £12.96.
4 That is your benchmark range, is it not?

5 A. Yes.

6 Q. The three figures that I just put to you are all at or
7 below the bottom of your benchmark range. Teva's price
8 as the output of this process of competition in
9 period 3 --

10 A. Yes.

11 Q. -- the average selling price at the end of period 3, and
12 then the figure lower still at the end of period 4
13 of £5.50?

14 A. Yes, I agree that 9.82, 9.65, are close to 9.63 and
15 I agree that 5.50 is lower than 9.63, yes.

16 Q. All at the bottom end of your range, I am grateful.

17 Now, so just to conclude, if I may, can we now
18 return to the comparisons that you draw based on tablet
19 prices. Now, we have already discussed that Flynn's
20 actual prices are a long way above the very top of your
21 range.

22 Now, again, just to state the obvious, judged by the
23 low end of your range, they would obviously be further
24 still above the benchmark, would you not agree?

25 A. If you use the bottom of my range as your benchmark for

1 workable competition, it is correct that Flynn's price
2 would be more above it than if you use the top of my
3 range, yes, I agree with that.

4 Q. Looking at Pfizer's average selling prices without
5 adjustment, can we agree that they average 37.56?

6 A. Yes, which divided by three is the 12.52 or 12.55.

7 Q. Yes, it is a constant test of mental arithmetic, is it
8 not?

9 A. It is late in the afternoon to divide by 3.

10 Q. Yes, 12.52, exactly. And this 12.52 is also
11 substantially above the low end of your range?

12 A. £12.52 is above £9.63, I agree with that.

13 Q. So if we thought the low end of your range was more
14 informative than the upper end of your range, we would
15 have to conclude that they are not consistent with
16 a price under conditions of normal and sufficiently
17 effective competition?

18 A. Well, except that, as I mentioned earlier on, what we
19 are doing with this analysis is we are not -- this
20 analysis is not guaranteed to find the top of the range.
21 It essentially says that within period 3 we have
22 workable competition, and so these are prices consistent
23 with workable competition. It does not mean that the
24 price range presented here is giving you a maximum level
25 of that competition. So you would have to first

1 conclude that £9.63 was your absolute top of the range
2 and workable competition could not get you any higher
3 than that, and then you would have to draw the
4 inferences that you are drawing.

5 Q. What you have done to Pfizer's average sell prices at
6 the upstream level of the market is add a margin
7 adjustment of -- I think it is 70p, is it not?

8 A. 76p.

9 Q. 76p. Now, that is based on the cost plus, as we
10 discussed, but as Mr Harman alluded to in the hot-tub,
11 the CMA's Decision does not require Flynn to price at
12 cost plus. Do you accept that?

13 A. I have not looked closely at the CMA's findings on
14 Flynn, but I am happy to proceed on the basis that, for
15 the sake of the discussion, that that is correct.

16 Q. Yes. If you took just, say, 25% of Flynn's actual
17 margin above cost plus, you would end up with a figure
18 that was materially above even the top of your range.
19 Would you agree?

20 A. Sorry, if we took a ...?

21 Q. So if you did not assume that Flynn was pricing at cost
22 plus but that it was pricing above its cost plus and you
23 gave it some portion of its margin, you would end up
24 with a figure that was more materially above the top of
25 your range?

1 A. You would. I gave an example in the teach-in of what
2 would happen if you allowed -- if you added an extra
3 pound on to the Pfizer's adjusted price, so, for
4 example, that would then take you from £13.26 to £14.26
5 and that would, yes, increase the distance by £1.

6 Q. Now, we have heard that Dr De Coninck argues on behalf
7 of Flynn that its downstream margin was fair for the
8 industry as a percentage mark-up; are you aware of that
9 evidence?

10 A. I -- yes, yes, I am.

11 Q. If Flynn is right about the fairness of its margin,
12 Pfizer's upstream pricing can be said to have caused the
13 downstream prices to rise to unfair levels judged by
14 your tablet benchmark; would you not agree?

15 A. No, I would not agree with that because what -- your
16 interpretation would be that as soon as the adjusted
17 price, whether adjusted by 76p or whether adjusted by
18 Flynn's entire mark-up, ie to get to Flynn's price, your
19 interpretation is as soon as you get above £12.96 the
20 price is unfair, but that is not what I am saying.

21 What I am saying is that my £12.96 is a useful
22 indicator. I also go on to say, and I say it in several
23 places in section 3 of my report and in later -- of my
24 first report and in later reports as well, that even if
25 Pfizer's adjusted price or Flynn's price is above

1 that £12.96, if it is close to it, and if it is a long,
2 long way away from the monopoly price, then it is close
3 to the workably competitive price and it is far from the
4 monopoly price and, therefore, generating a lot of
5 consumer surplus, and that, for me, would say that it is
6 not unfair. For me, it is only when the prices start
7 getting to an area where they are really not leaving
8 much consumer surplus for the buyer that they start
9 becoming -- looking like they might be unfair.

10 Q. I can understand the comparison with a competitive
11 benchmark, but I have to say I struggle with your
12 subsequent comparison with monopoly prices and with
13 constrained monopoly prices. I think you accept that
14 the monopoly price is plainly not a good benchmark for
15 fairness, do you not?

16 A. I accept that pricing at the monopoly level is not
17 a fair price. The point that I am making -- and this is
18 similar to the point that the President and I were
19 discussing just before the break --

20 Q. Yes, that did not help me, I have to admit. I will have
21 to read it carefully.

22 A. Understanding where maximum willingness to pay is is
23 very helpful because the distance between maximum
24 willingness to pay and the price paid is consumer
25 surplus. It is as simple as that, and you can measure

1 maximum willingness to pay on a very conservative basis
2 by taking it as £30, and that is very conservative
3 because that is a constrained price which means the
4 willingness to pay is greater than that, or you can take
5 my estimate of £46 in AM1, my first report, in which
6 case the amount of consumer surplus above Flynn's price
7 and above Pfizer's price is very considerably more.

8 So those are the -- so it is really quite
9 a straightforward point.

10 Q. Well, let us take it in stages.

11 I think you would also accept that a price below the
12 maximum that a customer is willing to pay a monopoly
13 seller is not by that token necessarily to be regarded
14 as a fair price either; is that right?

15 A. Sorry, say it again, sorry.

16 Q. The fact that a price is below the maximum that
17 a customer is willing to pay a monopoly seller is not
18 necessarily to be regarded as a fair price?

19 A. I agree with that, yes.

20 Q. Maximum willingness to pay for an essential drug could
21 be very high indeed, could it not? It means essentially
22 that the Department of Health would rather pay this
23 amount than not obtain the product and provide patients
24 with a necessary treatment?

25 A. Yes, it could be.

1 Q. If patients risk suffering severe adverse consequences
2 absent the drug, there is an ethical imperative to
3 continue prescribing and dispensing and paying for it,
4 would you not agree?

5 A. Yes, that seems likely. That said, we are talking about
6 here a sophisticated monopsony buyer with the ability to
7 intervene when it considers the prices are too high,
8 which is exactly what the Department of Health did, and
9 so for me that is valuable information on the
10 willingness to pay for the Department of Health.

11 So, as I mentioned before, it did not intervene
12 at £48, it did intervene at £114, which suggests that
13 willingness to pay could be £48. I appreciate that
14 there is some uncertainty around that, so you can take
15 £30 as a value that is plainly, I would argue, an amount
16 that the Department of Health was willing to pay on the
17 basis that it negotiated that price and then paid it for
18 seven or more -- well, more than seven years.

19 So that is to my mind valuable information.

20 Q. Your analysis only goes to show the stratospherically
21 high levels that maximum willingness to pay would result
22 in, does it not? Your conservative estimate is £48 on
23 the basis that that was the level that Teva's selling
24 price stood at when the Department of Health decided to
25 meet with Teva in 2007; is that right?

- 1 A. That is what the data indicate, yes, the data indicate
2 that --
- 3 Q. The actual price paid by the Department of Health was
4 the drug reimbursement price, and that was much higher
5 still when the meeting was called. It stood at £114; is
6 that right?
- 7 A. Yes, but that is not the value that I am suggesting to
8 be maximum willingness to pay. So I have not picked the
9 highest point, I have not picked the £114. I picked the
10 much lower level of 48.
- 11 Q. You have done, but you accept that the monopoly price is
12 really somewhere between 48 and 114 on your analysis, do
13 you not?
- 14 A. Well, that is what the data would suggest, but again, as
15 I said before, that is not the -- I did not pick that
16 higher price. I conservatively picked the lower one of
17 48 so as not to -- well, so as to be conservative.
- 18 Q. The fact that there is a price high above a firm's
19 actual price that the customer might accept in extremis
20 is uninformative of the relationship between the
21 dominant firm's actual price and any price that would
22 prevail under conditions of normal and sufficiently
23 effective competition. That is right, is it not?
- 24 A. So here -- so with the £48 and with the £30, we are not
25 trying to measure workable competition, we are trying to

1 gauge the amount of surplus available. These are two
2 different exercises.

3 Q. A price does not have to be closer to the monopoly level
4 than to a competitive benchmark before it ceases to bear
5 a reasonable relationship with economic value?

6 A. Well, that is a legal question, I think.

7 Q. But is it not the linchpin of your analysis?

8 A. No. I say that where a price is close to the price
9 consistent with workable competition and far from the
10 monopoly price then I consider that price is likely to
11 be -- not likely to be unfair, ie likely to be
12 consistent -- I do not want to use "lawful", that is the
13 wrong word, but not unfair. Okay, so let me say that
14 again.

15 I say that when a price is close to the price
16 consistent with workable competition and far from the
17 monopoly price then it is in the right part of the
18 spectrum to be not unfair. So I am not setting out
19 a test that says we define the spectrum and we split it
20 in the middle and we say, "Are you in the bottom half or
21 are you in the top half?", but I am saying that, when
22 you are in the bottom half and in particular when you
23 are very close to that workably competitive price and
24 a long way from maximum willingness to pay, that is just
25 the sort of place on the spectrum where I would say

1 a price is not unfair.

2 MR HOLMES: Thank you very much, Dr Majumdar. I do not have
3 any further questions for this witness.

4 THE PRESIDENT: Well, thank you very much, Mr Holmes.

5 Dr Majumdar, I am not going to require Mr Brealey to
6 re-examine you this evening. I may have one or two
7 questions arising out of that last exchange, but I think
8 it has been a long day, and we will do it tomorrow
9 morning. I think we are starting at 10.00 am again.

10 You will know this, but I will say it anyway,
11 doctor: please do not talk to anyone about your
12 evidence, and I hope you will not be too long in the
13 witness box tomorrow morning, but I hope equally that
14 the obligation not to talk about the case is a relief
15 rather than a burden.

16 We will resume tomorrow at 10.00 am. Thank you very
17 much.

18 (4.55 pm)

19 (The hearing adjourned until 10.00 am on
20 Tuesday, 21 November 2023)

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