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2 GENERAL MEDICAL COUNCIL

3

FITNESS TO PRACTISE PANEL (MISCONDUCT/PERFORMANCE)

4

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On:

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Friday, 13th July 2007

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Held at:

St James's Buildings

9

79 Oxford Street

Manchester M1 6FQ

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Case of:

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GORDON ROBERT BRUCE SKINNER MB ChB 1965 Glasg SR

Registration No: 0726922

13

(Day 10)

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Panel Members:

Mrs S Sturdy (Chairman)

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Dr M Elliot

Mr W Payne

18

Mrs K Whitehill

Mr P Gribble (Legal Assessor)

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MR A JENKINS, Counsel, instructed by RadcliffesLeBrasseur,
Solicitors, appeared on behalf of the doctor, who was
present.

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MR T KARK, Counsel, instructed by Eversheds, Solicitors,
appeared on behalf of the General Medical Council.

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Friday, 13th July 2007

3 (9.30 am)

4 THE CHAIRMAN: Good morning, everyone. I'm Sandra Sturdy,
5 chairing the Fitness to Practise Panel hearing enquiring
6 into the allegation against Dr Skinner. Just to remind
7 you, it is important to maintain the anonymity of the
8 patients, and should they be mentioned in error, please
9 do not refer to them out of the room.

10 Again, mobile phones, I'm sure everyone has got them
11 off, and if do you need to talk, please leave the room.

12 We will proceed, Mr Jenkins, with the evidence of
13 Dr Hertoghe.

14 Housekeeping

15 MR JENKINS: Madam, thank you very much. Can I just raise
16 a couple of matters of housekeeping. I don't know
17 whether Dr Hertoghe's evidence will be finished today.
18 If it is not, we're trying to make arrangements to
19 ensure that the Panel can receive his evidence next
20 week. He has other commitments, both family as well as
21 professional, and it would be his wish to return to
22 Brussels today, plainly, to be with his family over the
23 weekend.

24 We are trying to make arrangements to ensure that
25 there could be a video link if he has not finished

1 giving evidence today. That video link facility can be
2 in place for Monday. I know that would require the GMC
3 to consider what resources are available at this end but
4 we will try, during the morning, to ensure that we can
5 identify a suitable video link facility in Brussels.

6 THE CHAIRMAN: I think that could be a good solution, but
7 we are aware of how they do break down, and I do think
8 that would cause quite an interruption to the hearing if
9 it didn't work. Thank you.

10 MR JENKINS: I agree and I understand that we can test it
11 this afternoon, once we find a suitable link at the
12 other end.

13 The other point is Dr Hertoghe's travel arrangements
14 for today. It is not at this moment entirely clear
15 whether he should be taking a flight to Brussels or
16 whether it would be more efficient, in terms of the
17 length of time he can evidence, to do the whole journey
18 by train, London and then the Eurostar. I wonder if
19 we can review that during the day. Having raised those
20 matters I'll keep going, if I may.

21 DR THIERRY HERTOGHE (continued)

22 Examination-in-chief by MR JENKINS

23 MR JENKINS: Dr Hertoghe, we were dealing with your report
24 looking at the reports of Dr Lynn and Professor Weetman,
25 the document that the Panel have is D13, and we were on

1 page 6 yesterday.

2 A. Yes. Do you want me to continue?

3 Q. Please do, yes.

4 We had talked about the UK consensus and that
5 Professor Weetman's view was that the goal of treatment
6 is to normalise the TSH level in blood, and you've
7 pointed out to us that that is going against the UK
8 consensus, which he had mentioned in his report, which
9 said that the correct dose is the one which relieves
10 symptoms but may result in a high T4 and a low TSH.

11 A. Yes. There are too many conditions that influence the
12 TSH to make it test that on its own. It's sufficient to
13 follow up. I'll even show a slide again that I showed
14 yesterday, but I'll not show it now, where you see that
15 even if you have a good TSH during the day, during the
16 night, it is test again hypothyroid, but during
17 treatment if we use only the TSH during the day as
18 a test.

19 Now, it's also in contradiction with Dr Weetman's
20 view. I showed it yesterday anyway, that he talked
21 about that we shouldn't rely actually on the TSH only.
22 So he made an editorial, one or two months before
23 testifying here, that says actually the contrary.

24 So also his publications, I think I had those two
25 publications where he talks about actually where the

1 reference range one publication says that the reference
2 range should probably be narrower, as a hypothesis, that
3 was years ago, and now he talks that we should also
4 treat patients, whatever their TSH is, if they have
5 complaints that could be a possibility.

6 Q. Could you pull the microphone slightly closer to you?

7 A. Yes.

8 Now, I showed also on the TSH most of the
9 information yesterday, so I don't think it's necessary
10 to go through, I just repeat that study on biochemical
11 test of thyroid function, any value in monitoring
12 patients receiving thyroxine replacement where they saw
13 that the tests were poorly useful, but I also mentioned
14 that probably one of the reasons is that the patients
15 take in the morning their thyroid hormones before, and
16 that falsifies all the results later on, so you may not
17 take the thyroid hormones before a blood withdrawal,
18 it's a standard, and it's also in the official textbook
19 for thyroid function. I think you have found that part.

20 Q. We can look at it, it's page 865 of Mr Lynn's textbook,
21 but we may look at it later.

22 A. He went later on to talk about the fact that the TSH is
23 useful is that there is an increase in atrial
24 fibrillation and bone loss if the TSH is too low.
25 There's a big difference between a low TSH during

1 treatment and a low TSH that is permanent. The studies
2 that have shown a link, like I showed yesterday, between
3 atrial fibrillation and TSH, were studies done where the
4 TSH is always low because they have a permanent
5 situation of excess thyroid hormones.

6 When you take thyroid therapy, during the day
7 you have a decrease of the TSH, but in the study that
8 I showed yesterday, when you look well at the study, the
9 whole night and even the whole evening, their TSH is
10 back to the usual condition, that means with a dose of
11 121 micrograms -- I'll probably show the study because
12 it's too important, in my judgment.

13 I will give you a copy of that. It's important to
14 show because it will make a lot ...

15 The dose where we suppress the TSH, the mean dose,
16 I didn't indicate that here, it was 121 micrograms per
17 day. And we look at those patients, they are clearly
18 above the TSH even for UK, but we see that it lowers and
19 it becomes still in pathological values. You still have
20 here a sort of situation where there are increases in
21 risk factors. You get easier fat, you have more insulin
22 resistance, you have arteries get stiffened so they have
23 a permanent atherosclerosis in this range.

24 So these patients are under treated during the day,
25 but still they are better than without treatment. And

1 it's only 121 micrograms but remember Dr Lynn said we
2 should probably not exceed 100 micrograms per patient.
3 So these patients were exceeding that value.

4 It's still clearly hypothyroid and still remained in
5 a sort of situation that increases risk factor, but look
6 what happens after 7 o'clock in the evening. Their
7 value is higher.

8 So just doing a test during the day without looking
9 at the patient, without taking into account -- and
10 I showed you that the clinical signs are easy to
11 recognise. They're very typical for low thyroid.

12 I could have given you a lecture where I would have
13 compared deficiencies in male hormones, in female
14 hormones, in cortisol, in growth hormone, in melatonin,
15 all these hormones, you will see that the clinical
16 picture, the physical appearance is different from
17 patient to patient because of the different
18 deficiencies.

19 Q. Can I just read to you one sentence from this book, the
20 chapter is "Treatment of hypothyroidism", the heading is
21 "Maintenance and monitoring of treatment", and the
22 sentence I want to read is:

23 "Because serum TSH and free T4 levels are influenced
24 by T4 administration, blood should be collected before
25 the T4 is taken."

1 Is that the point you were making?

2 A. Yes.

3 Q. Again, without marking the book --

4 A. And it would probably have had much less problems to

5 understand why this happened now.

6 I just wanted to show you how misleading it is, just

7 the TSH during the day, during a treatment. Clearly

8 a dose of 121 micrograms for these women, 12 women, is

9 insufficient because they remain almost half of the time

10 in overt, clearly clear-cut hypothyroidism.

11 But you would have checked that, if the physician

12 would have examined the patient and knows the signs --

13 because it's not taught any more at university.

14 I didn't get any course of that. They showed maybe one

15 or two pictures but they did not really go into details,

16 but if you know very well the clinical picture, you

17 would have known that the dose is too low.

18 So I think this is a fundamental point.

19 Q. If we move on in your report to paragraph 14.5 --

20 A. That I already mentioned that there were several studies

21 I showed where the TSH test didn't seem to be an

22 interesting test.

23 Q. I understand.

24 A. And you saw that Professor Franklyn, in her patients,

25 71 per cent, had suppressed TSH.

- 1 Q. The next paragraph, 14.6, again you have taken us
2 through yesterday, issues about atrial fibrillation and
3 what is said to be the risks of bone loss.
- 4 A. The only study I saw where treatment with T3, hormone in
5 cardiac operated patients, patients operated for heart
6 problems, cardiac valves, and they had a decreased risk
7 in atrial fibrillation after the operation if they were
8 treated. So those are not necessarily hypothyroid
9 patients, just patients undergoing cardiac operation,
10 probably euthyroid biochemically and receiving
11 a supplement to improve the heart function.
- 12 Q. The next paragraph that you have, 14.7, has the heading
13 "A low TSH can be associated with a reduced risk of
14 major disease". I think we have covered that in your
15 presentation yesterday.
- 16 A. Yes. I showed that ideally, to be sure you have to be
17 under 0.4 of TSH, in order to avoid recurrence of
18 thyroid cancer or occurrence of thyroid cancer in
19 patients with goitres or nodules.
- 20 Q. The next paragraph, 14.9, you discuss the fact that the
21 serum level of TSH undergoes large fluctuations during
22 the day, and that's the point you've just made for us.
- 23 A. Yes, the younger the patient, the greater the
24 fluctuations will be. In elderly patients the curve
25 flattens. Part of aging is caused by deficiencies in

1 hormones, but the other part is caused by chaotic
2 endocrine, so hormones have to be secreted at certain
3 times of the day more than in other times. That's
4 called a circadian rhythm. For many hormones more
5 hormones in the morning, less in the evening, but for
6 TSH it's the other way around, there are higher levels.

7 These fluctuation, are healthy, but that doesn't
8 mean that the TSH at night may be at 6.00 like in this
9 study I showed you.

10 Q. Your next paragraph, paragraph 15, on page 8 of your
11 report, you agree with Dr Weetman that overtreatment
12 with thyroid hormones can be associated with adverse
13 consequences.

14 A. Completely. Excess thyroid hormones is actually
15 a medical emergency. Not always because the risk for
16 your body is so important but because the patient is so
17 anxious with it.

18 Again, I repeat he's not euphoric. He gets too
19 anxious and this is an unbearable situation for many,
20 anxious from anything. In the long-term, it can cause
21 heart failure, the heart doesn't work enough because
22 when there's too much thyroid hormones, there's
23 a melting of the muscles, the muscles melt, and the
24 heart is a muscle, so they will decrease the structure.

25 If you stop the treatment that was clearly -- but

1 you already have to have very high doses, really very,
2 very high doses to cause heart failure. You won't have
3 that at 200 or 250. Normal people, I would say, are in
4 an average hypothyroid patient. We have to have much
5 higher dose.

6 Q. The question that you raise is whether the levels in
7 Dr Skinner's patients were really excessive levels or
8 whether the readings can be taken as true readings.

9 A. In my experience, if a patient doesn't take his thyroid
10 hormones before the therapy and all his hormones are
11 high, except the TSH is suppressed, he really has overt
12 hypothyroidism.

13 But you certainly have to have a high T3, which has
14 not been austere, I would recommend really Dr Skinner to
15 ask if the T3 is really useful, because that is the
16 active hormone. If I have a high T3, I'm sure the
17 person is hypothyroid, and I will see it also
18 clinically, it will be confirmed clinically, I will be
19 able to see.

20 Here in these patients, the reason I'm so sure that
21 the patients have taken the thyroid hormones before
22 is that they were clinically not hypothyroid. Any
23 doctor would have clearly seen they were hypothyroid.
24 Even, I would say, with the less education that they
25 seem to have here, the GPs that were in the reports and

1 the endocrinologists.

2 Q. What you say is that the probability is high, that all
3 or most of the levels in the patients that the Panel
4 have to deal with were not really excessive because
5 there were no clinical signs of excess reported.

6 A. Yes, but if there were clinical signs, you would have
7 the same sort of picture. So what I mean to say is that
8 the clinical symptoms are extremely important. If they
9 are not present, you're almost sure there's no
10 hypothyroidism, and this is in contradiction with the
11 views of Dr Weetman and Dr Lynn.

12 But they are not clinical doctors. Dr Lynn is
13 a very good expert for cancer, he's a surgeon and things
14 like, that but we have seen in the reports that they are
15 not knowledgeable about the information about treating
16 patients who are clinically -- also based on the
17 clinical. So it's two schools of thinking, but I think
18 we can say, and I will show, that the experts didn't
19 have the experience to really with knowledge be able to
20 report on these cases of these four patients.

21 And I'm sure, I'll ready to have all the BTA here,
22 or the ten endocrinologists of the BTA, I'm ready to
23 discuss, but I'm almost sure they will not be able to
24 prove something contrary.

25 Q. Next paragraph, I think you've already dealt with that

1 topic, about serum T3 and T4.

2 A. Yes. Well, I didn't really. Dr Weetman says that serum
3 T3 and T4 on their own would not be recommended to
4 monitor thyroid hormones. I would agree with him, alone
5 they are not enough but you do have to ask them in
6 a follow-up. Again I repeat, if I have a patient who
7 did correctly the blood test, which is apparently not
8 the case in any case, I can have no proof of the
9 contrary that they did their test like they should
10 without take the thyroid hormones before.

11 But if they had a high T3 and high T4 and low TSH,
12 it's almost sure they were clinically overdosed, and
13 they would have clinical symptoms. In my experience
14 I only had one patient who was normal with high levels
15 of T3 and T4 after taking the blood correctly, but
16 I know she took very high doses. But it's only one
17 patient in my career.

18 Q. You refer again to the you United States National
19 Academy of Clinical Biochemistry and their guidelines.

20 A. It's a proposition of guidelines to change the
21 guidelines, it's not an official, but they say evidence
22 begins more and more to tend that thyroid treatment
23 should consist of maintaining the TSH level in the lower
24 half of the reference range, that is between 0.5 and 2,
25 and sometimes it's also cited by other guidelines to put

1 under 1.5, and I don't know why we should make
2 a difference.

3 If a patient under treatment has to have his TSH
4 under 2 or 1.5, why do other people who have a TSH above
5 that value may not be treated? Patients between 2
6 and 4. There's no scientific evidence to my knowledge
7 to make a difference.

8 I know that many patients, if you examine them very
9 well and they have a TSH above 2 or 2.5 are clinically
10 hypothyroid. We know that if it's in that range,
11 you have a high risk of developing a full-blown
12 clear-cut hypothyroidism. That would be accepted by all
13 endocrinologists.

14 Q. You then deal with that guideline. I'm looking at
15 paragraph 18.

16 A. Dr Weetman puts the guideline in question that he
17 himself helped to make. The guideline of the National
18 Academy of Clinical Biochemistry.

19 He says the evidence would be so far equivocal.
20 There's, I think, 495 references, not only for that
21 topic but for all the guidelines, which is more than the
22 British Thyroid Association. So he puts that into
23 question to strengthen the theory that we should not
24 treat patients with a TSH at 2, at 2.5 and 3.

25 He says, for instance, that NACB thyroid guideline

1 would have been subject to detailed international
2 scrutiny prior to the publication. But when you read
3 his report, you have the impression it is against the
4 guideline, that means that there was a lot of
5 discussion.

6 There is always a lot of discussion to put good
7 guidelines on the Internet or in an official guidelines
8 of an official institute. I think this is normal. This
9 just makes you understand that these guidelines have
10 been thoroughly screened, by 95 examiners.

11 The British Thyroid Association guidelines have been
12 reviewed by nine endocrinologists that are probably
13 diabetologists.

14 Q. In paragraph 20 you deal with subclinical hypothyroidism
15 and you comment on Dr Weetman's view that subclinical
16 hypothyroidism without clinical signs, just chemistry
17 outside the reference range, should not be treated.

18 A. Yes. So the definition of subclinical hypothyroidism is
19 normally hypothyroidism without any clinical signs and
20 symptoms. So it could be that that patient in the cells
21 has a very good situation. But the evidence shows that
22 it's different, that those patients have -- if they
23 don't complain, they do have abnormalities and there's
24 a lot of evidence that I showed yesterday, a whole
25 series of slides, one after the other. I know I went

1 a little bit quick but you have those references in your
2 copy of slides.

3 Q. I'm going to move you on, because I don't know that we
4 need to discuss subclinical hypothyroidism.

5 A. It doesn't really concern here, but it's just to show
6 you, in order to reinforce his statement he gave wrong
7 information. He gave the impression that subclinical
8 hypothyroidism had no pathology, which is not the case,
9 evidence is against that, much evidence, and that the
10 treatment of subclinical hypothyroidism doesn't work,
11 and it does. The majority of the studies show it does.
12 And it's not a small majority, it's a big majority.

13 Q. Let's come on to the wellbeing of patients,
14 paragraph 23.

15 A. So again a misinterpretation of a study by Dr Weetman,
16 I don't know why he does that. Dr Weetman states
17 a study that contradicts his position that shows people
18 to be better with low TSH than high TSH within the
19 reference the reference range, and he tries to show the
20 alternative explanations, but the best explanation is
21 the patients felt better.

22 In his explanation he implies that the serum TSH
23 level indirectly implies that you wouldn't have such
24 a lower TSH level where you feel better if you gave T3
25 and T4 treatment. So on the one hand he says T3 and T4

1 in those patients should probably be given, but he
2 forgets one thing, if you add T3 to a preparation to T4
3 and you have an equivalent preparation, because you have
4 to lower a little bit T4 and take a small dose of T3 and
5 you get a sort of equivalent preparation as T4, you
6 usually get a lower TSH. Studies show the TSH secretion
7 is more suppressed by T3 than T4. So I added studies,
8 but we had proposed not to give you too much of that
9 data, but if you want you can get it, that shows those
10 references, not in order, not to overload you.

11 Q. I understand. But from your paragraphs 24 through to 35
12 you are discussing the use of T3 together with T4 and
13 also Armour Thyroid.

14 A. Yes.

15 Q. I think we've covered that fairly thoroughly yesterday.

16 A. Yes, it seemed to say that -- if I resume, that they are
17 potentially harmful effects and they are potentially
18 harmful effects to any thyroid preparation, and it's not
19 more with dessicated thyroid than with the other ones.
20 You may not overdose. You may not give thyroid hormones
21 to somebody who doesn't need any.

22 If you give thyroid hormone to someone who doesn't
23 need any, he gets overdosed and gets those unpleasant
24 signs of anxiety, trembling fingers and sweating all
25 over.

1 Q. I would like to come on to paragraph 34 on page 14 of
2 your report.

3 A. So this is the fundamental point, the discussion on
4 treating patients that have values within the reference
5 range. I have shown you that there are a lot of
6 references that show that there is in that reference
7 range pathology, you must have optimal values. It's
8 even more complicated, every person has a different
9 optimal value, so you need to examine the patient
10 clinically. I know it takes time, I take 15 or
11 20 minutes to examine a patient, but with that I have
12 a lot of information, and that's only a physical
13 examination. They have to fill in questionnaires
14 before, so I know a lot about their complaints.

15 Q. You've taken us through the arguments that you raise in
16 paragraph 35 in detail yesterday.

17 A. Yes. Showed that there is already at middle age, that
18 starts at age 31, decrease in receptors and things.
19 There's an increase in the blocker of T3, reverse T3
20 with age, and that makes that, even if the blood levels
21 would look good, it may not be good in the cells. So
22 the doctor has to examine the patient.

23 To resume a little bit this TSH question, I think
24 you can compare; the T3 and T4 levels are like the food
25 we take. We eat food to get energy.

1 The TSH is a sort of result, so you would examine
2 for instance the stool to see if everything is absorbed.
3 If you see food that is not absorbed, there probably is
4 a problem that you have to solve. But in order to know
5 how the person has energy, you have to examine the
6 patient and interview the patient. We're doing
7 something very specific, we cannot rely only on TSH. So
8 I think this is very important.

9 Q. You make the point in the middle of paragraph 36:

10 "Physicians should not rely only on thyroid test for
11 the diagnosis of thyroid failure but evaluate the
12 presence or absence of hypothyroid complaints and
13 physical signs too to reach a diagnosis."

14 A. All, but do of course also the test -- and this is
15 a problem in the UK -- and do it on the right time
16 without taking it before.

17 So the conclusion of Dr Weetman that he repeats
18 inadequate symptoms in assessing whether patient is
19 hypothyroid is made on his personal interpretation of
20 a study that says exactly the contrary.

21 Q. This is paragraph 38, the study you talk about is the
22 1997 Swiss study from Basel. We saw it yesterday in one
23 of your slides.

24 A. Yes, it says the conclusion of the study is exactly
25 contrary, and what is very good in the study, it says

1 that we shouldn't only rely on clinical symptoms, we
2 should also do testing, but next to testing don't forget
3 the clinical symptoms for the diagnosis.

4 Q. So the point is, looking at paragraph 38.2 --

5 A. Well, in this study about 63 per cent of the patients
6 who were outside the reference range, who were normally
7 for classical diabetologists, I would say, with a TSH
8 above the reference, 63 had severe hypothyroid
9 complaints, but also 6 per cent within the reference
10 range had severe hypothyroid complaints.

11 Dr Weetman said it means it's not clear-cut
12 difference. No, it probably means that people within
13 the reference range can also be severely hypothyroid
14 because they have low receptors. The hormones do not go
15 in the cells easily.

16 Q. Poor conversion is something you told us --

17 A. Especially if they are treated with thyroxine because
18 thyroxine is just a precursor hormone. This is a bit
19 what I said in ...

20 Q. That's what you say in paragraph 38 and 39.

21 A. And I confirm that in 40, and things like that.

22 I would normally make a big map where you have all
23 the references but I think you're not here to be
24 overloaded with information, but everything I say I can
25 prove it here.

1 I have taken some copies out of major textbooks. We
2 have here the thyroid. There are other major textbook.
3 There's the Williams Textbook of Endocrinology, and very
4 important, the Groat Textbook of Endocrinology, which is
5 the biggest, three big volumes, and the Groat is very
6 interesting. I'll talk about it later, because he had
7 made an article called "Dangerous dogmas", and he showed
8 that a low T3 -- so here the T3 wasn't really checked
9 initially -- with normal other tests should be treated.
10 He suggested that should be treated because now for the
11 moment endocrinologists tend not to treat it, and he
12 showed a fantastic article, I would say, because it had
13 a lot of references and very clearly written, that
14 there's a need at least for a trial of therapy in those
15 patients.

16 Q. Paragraph 42, you repeat Professor Weetman's suggestion
17 that he never heard of visual perceptions as a symptom
18 of hypothyroidism or a sign of it.

19 A. Yes.

20 Q. You say in the next paragraph, paragraph 43, that
21 you weren't aware of it.

22 A. I wasn't aware of it, and I found it at least a little
23 bizarre indeed as a symptom, but by looking up the
24 literature, I found and I showed you yesterday the
25 articles that 71 per cent of patients with clear-cut

1 hypothyroidism have visual field effects. That means
2 when they look, part of what they see is defective, it
3 does not work well, so that was for me quite amazing,
4 but when you think it's quite evident, because their's
5 myxoedema in the head, so it is a sort of compression in
6 the head of tissues, and also the nerves that go to the
7 eyes can be compressed, that can give those visual field
8 effects, and I can understand they clear up with
9 treatment.

10 Q. On paragraph 44, again referring to Professor Weetman's
11 report, it's the Stobhill study.

12 A. It's a double blind placebo controlled study, but with
13 a very small sample, 25 patients and 19 controls of
14 patients who were within the reference range for thyroid
15 hormones but had complaints, and the complaints did not
16 improve with thyroxine.

17 Q. We also know, because the Panel have considered this
18 study, that only 100 micrograms of thyroxine was given
19 to patients.

20 A. You see what happens with the 100 micrograms. I showed
21 you the slide where at 120 micrograms of patients with
22 overt hypothyroidism, half of the day they remained
23 overt hypothyroid. So the dose may be not enough, but
24 also thyroxine itself may be not the good medication.
25 Patients do sometimes much better with T3 and T4

1 combinations and dessicated thyroid, that is considered
2 by endocrinologists as outdated preparation, but that
3 I use also regularly when patients do not respond on
4 classical medication.

5 Q. You then comment on Professor Weetman's suggestion that
6 the study was compatible with other studies showing no
7 objective benefit from thyroxine in mild subclinical
8 hypothyroidism.

9 A. Yes. So once again I repeat the information and I give
10 all the references that there is efficacy by giving
11 thyroid hormone in subclinical hypothyroidism. I don't
12 know why he mentions this, because if he's really
13 a thyroid expert, this is really fundamental knowledge
14 to know that there are studies that do have effect and
15 that there are more of those studies than the opposite,
16 that it has no effect.

17 I didn't see really studies that treated subclinical
18 hypothyroidism patients gives problems. So even if it's
19 neutral, why not permit a therapy trial when patients
20 have complaints or have some sort of problem that could
21 be improved by thyroid hormones safely.

22 Q. You say towards the bottom of your paragraph number 45
23 that there are trials and most of those trials showed
24 significant beneficial effects.

25 A. From 33 studies showing beneficial effects.

1 Q. And you say:

2 "It is, for example, an accepted practice to provide
3 biochemically 'euthyroid' patients with thyroid nodules
4 and goitre to reduce the nodules and goitre."

5 A. All endocrinologists, I think also Dr Weetman and
6 Dr Lynn, normally have patients who have thyroid nodules
7 and values within the reference range, give thyroid
8 hormone, and for them it seems not to be a problem, and
9 here suddenly it is a problem.

10 Q. You then go on to attack Professor Weetman's conclusion
11 that the existing data shows that there's no significant
12 benefit from thyroid hormone replacement in
13 biochemically euthyroid patients?

14 A. I showed you yesterday where in depression you give to
15 euthyroid patients T3 and it helps them get out of the
16 depression. Where patients with a TSH above 2 but
17 within the reference range and having thyroid
18 antibodies, if they have a high cholesterol, it is
19 lowered by a small dose of 50 micrograms of thyroxine.
20 So it does mean there is some biochemical abnormality
21 caused by a sort of thyroid deficiency, and that giving
22 thyroid hormones improved the situation.

23 So there are many study actually, but not very many.
24 I would say there are enough studies to go forward and
25 permit in patients who are within the reference range

1 and have complaints to be treated, because there's no
2 real study that shows it has adverse effects.

3 Q. Can I remind you --

4 A. There's only one study that they did that showed that
5 some patients had heart palpitations, but some, a little
6 group, it was not really significant but they mentioned
7 it in the article.

8 Q. Can I remind you, Professor Weetman agreed that his view
9 that there's no benefit from thyroid replacement in
10 biochemically euthyroid patients that that view was
11 based on that one study, and his view was the fact that
12 there were small numbers of patients and controls in the
13 study didn't matter.

14 A. Here we're talking about subclinical hypothyroidism.
15 I found four studies with no benefit but against 33 with
16 benefits.

17 Q. You deal again with his second conclusion that --

18 A. Yes, you're talking -- I'm sorry, I was talking again
19 about subclinical. You were talking about biochemical
20 euthyroid patients. It's true, it was only on one
21 study.

22 Q. You deal with his second conclusion where he says:

23 "We have seen there are also good physiological
24 reasons to believe that such treatment [that is of
25 biochemically within the reference range patients] is

1 futile."

2 A. Yes, I think he adds this to accentuate his point but,
3 again, I cited a whole lot of articles where you can see
4 that it does help, it's worthwhile, et cetera. So I am
5 very surprised that an endocrinologist of his level
6 takes the risk to put all this sort of information in
7 this way, that is actually erroneous. I don't
8 understand.

9 It's not me to judge why he did. This, it seems to
10 me unbelievable for a person who writes in the thyroid
11 textbook to put information that could be so easily
12 checked and the contrary can be shown.

13 Q. You deal with, in paragraph 46.2, a recent retrospective
14 study, which I think hasn't been published?

15 A. It hasn't been published yet. It's a retrospective
16 study so it has less important value. What is a
17 retrospective study --

18 Q. How do you know of it if it has not been published?

19 A. I just received it from the person who did the study,
20 and so those patients had received a thyroid
21 treatment -- and actually you can have a copy, if you
22 want, of the study -- and it showed that they had
23 significant benefit, I think 70 per cent improvement by
24 treating clinically hypothyroid patients, biochemically
25 euthyroid patients. It is a practice that many more

1 doctors do.

2 Q. You then go on in paragraph --

3 A. It's patients who have been initiated in treatment,
4 I think it was in November or December, for one or two
5 months, consecutive patients.

6 Q. You then go on to talk about reference ranges and
7 I think we've covered that in detail yesterday.

8 A. Yes. So again, Dr Weetman says these are normal results
9 implying that they would be healthy results, but it's
10 just statistical reference ranges. If you have
11 a population that's completely hypothyroid, you will
12 still have reference ranges with 2.5 per cent under, and
13 2.5 per cent above. If you have a complete normal
14 population for a certain parameter, you will still have
15 reference ranges. So you don't know very well, you know
16 where other people have their values but you still need
17 to have a clinical assessment of the patient to
18 determine really if he's hypothyroid or not.

19 Q. Paragraph 50 on page 19, you talk about secondary
20 hypothyroidism. I don't know that there are issues
21 there that concern the four patients that we're dealing
22 with.

23 A. Well, it does in the sense that secondary hypothyroidism
24 means that there's a weakness of the pituitary gland.
25 Dr Weetman says this is a very serious condition when

1 you have that, it's a drama, it's a tumour. Actually
2 the most classical sign is progressive weakening of the
3 pituitary gland with less and less able to secrete TSH,
4 because it goes very slowly. So the older you are the
5 more likely you are that your TSH of 2 would be in
6 a young person 4 or 5, because there's ...

7 So many of the patients who age, aging starts maybe
8 at 30 or 40 years, they get into a partial secondary
9 hypothyroidism, and I showed you the data yesterday.
10 One after the other at all levels. But that doesn't
11 mean we have a 70 per cent decrease in secretion of TSH.
12 On the average it's 50 per cent with age.

13 Q. Can I take you to your summary of Dr Weetman's report.
14 You say that his:

15 "... belief that there would be no reliable
16 scientific support for treating individuals whose
17 thyroid function tests are within the reference range
18 with thyroid hormones, is contradicted by over 80
19 studies."

20 A. Yes. So I have shown I think over and over the studies;
21 you have the copies the references. Of course, it's
22 very useful to have even more studies and more studies,
23 but I think there's data enough to say now we have to
24 pay attention to these patients, and when those patients
25 say: doctor, I don't feel good; and they have those

1 values within the reference range but I would say still
2 if it looks perfectly normal with a TSH under the 2 or
3 the 1.5, you might have to be extra careful. But if
4 they have a TSH above 2, above 2.5, I think you have to
5 consider treatment, and a trial of treatment that has to
6 be done safely in a very progressive way.

7 Q. You give your conclusions at paragraph 52 and the Panel
8 can see those. I think we've heard them throughout your
9 evidence.

10 You then set out a warning that's on the home page
11 of the British Thyroid Association, which is in these
12 terms:

13 "There are a number of websites with unhelpful and
14 inaccurate information about thyroid disease which
15 should be ignored. Our links [it says] are for
16 recognised patient support and information science
17 recommended by the BTA."

18 The pages may have got mixed up, and you may have to
19 jump to page 20. Sorry about that.

20 You say:

21 "I believe that most of those websites are in
22 support of treatment of all forms of thyroid deficiency,
23 including patients who are clinically hypothyroid, but
24 with thyroid tests still within the reference range."

25 You go on to say that:

1 "A check of those websites shows much more
2 scientific evidence than the British Thyroid Association
3 where scientific evidence is almost completely lacking."

4 A. I'm especially referring to the scientific references
5 that they put on their statement on Armour Thyroid.
6 There are about 300 references for their guidelines on
7 thyroid diagnosis.

8 For me, for the website, the British Thyroid
9 Association to say that, "We are the best and the only
10 ones that should exist in a certain sense", is a little
11 presumptuous, and I feel a little bit uncomfortable that
12 a person would say, "I know the truth and I know the
13 only truth".

14 Q. We then have to go to page 21, back a page, I think.
15 Where you deal with Dr Lynn's report.

16 A. I want to repeat that my position is not to have it
17 against a person. The impression I have from Dr Lynn
18 is that he's a very honest person, and I was really
19 impressed by his honesty.

20 I was not impressed by his report. I think the
21 quality of his report is -- I just will, like a doctor
22 would say, repeat what I know but I won't challenge this
23 knowledge with what I have as information before me.

24 He says, for instance, in page 3.7, he's very clear:
25 "The most diagnostic tool in diagnosis of

1 hypothyroidism is checking the blood level of thyroid
2 hormones."

3 Q. That was his evidence, that --

4 A. Yes.

5 Q. -- blood results define hypothyroidism.

6 A. He says:

7 "The diagnosis of hypothyroidism is based
8 exclusively on the measurement of thyroid hormone in the
9 blood. These tests are highly accurate and are
10 reliable."

11 I showed that there are some problems with these
12 tests:

13 "Their use has not been questioned in any reputable
14 medical journey."

15 Well, maybe it's time now to question and see if it
16 gets published:

17 "It is considered that patients with TSH levels
18 above the 5.0 milliunits per litre are likely to have
19 thyroid distinguish contrast."

20 That I don't understand but I suppose it's just
21 likely to have thyroid deficiency.

22 Q. Again, we have dealt with at some length --

23 A. Most the points dealt in Dr Lynn's report, happily I've
24 answered them in Dr Weetman's report who states much
25 more, I would say, inaccuracies, and it's much more

1 oriented.

2 So there's no evidence at the moment that the
3 combination of T4 -- it should be T3 and T4, there's
4 a little error here in my printing, it superior to
5 giving T4 alone. Again, we showed that there is
6 evidence. I didn't show all the evidence because some
7 of that is not really problematic here.

8 Q. Can I take you on to page 22 of your report and
9 paragraph 60. Dr Lynn was suggesting, certainly for one
10 of the patients, that the problem was depression, not
11 hypothyroidism.

12 A. Yes. Many patients often, when the doctor suggests
13 that, have the impression that: doctor doesn't really
14 listen to me. He puts me on (inaudible), I'm depressed
15 but I feel something else on the problem.

16 That is one of the problems that there's more than
17 a sort of fight between endocrinologists of the British
18 Thyroid Association and patient groups than there is
19 with doctors.

20 The patients say: all those websites say they don't
21 listen to me, they don't understand me. I showed you
22 that if you have a hypothyroid patient, you can probably
23 help the depression, but you probably cannot cure the
24 depression. You will be able to teach the patient
25 through psychotherapy to live with this depression, to

1 accept it.

2 If you give the thyroid hormone to a patient who's
3 hypothyroid and has depression because of
4 hypothyroidism, you will take out the depression of the
5 patient more easily than with psychotherapy. If you
6 stop the treatment, she will get depressed again.

7 Typical for depression caused by hormone deficiency
8 is that it is chronic. It's all the time there. With
9 thyroid deficiency it's more in the morning than the
10 rest of the day but it's there, every day it's there,
11 because the thyroid deficiency is not cured.

12 The problem of this approach to quickly put a label,
13 it is psychic, it is nothing to do with an endocrine
14 problem, it's just purely in the head, is that you have
15 then to cure the head with psychotherapy and
16 antidepressants, and as I said, also the other symptoms.
17 For the constipation you get laxatives. You give for
18 the pain they may have anti-inflammatory medicine, or
19 pain reducing medication. It's more expensive and less
20 efficient because you get also the side effects of all
21 those other drugs, which you shouldn't have with thyroid
22 hormones.

23 What is the risk of thyroid hormone? The classical
24 risk is to give too much. So we should be aware of
25 that. I always give the information to the

1 patient: what are the symptoms of excess? So they can
2 also participate in the control of their treatment.
3 They should always know the symptoms of overdoses.
4 I give a sheet for that.

5 Q. You have heard that Dr Skinner has a sheet from
6 June 2004, which is available for patients --

7 A. And it has all that information.

8 Q. -- and prior to that he would give that information
9 verbally.

10 A. That's perfect. That's how it should be.

11 Q. I'm going to move on from your commentary on Dr Lynn's
12 report, he'll understand no disrespect is meant
13 if we don't spend a great deal of time on his report
14 because you've dealt with the criticisms globally of
15 Dr Skinner.

16 Can I take you on, please, to page 23, where you
17 come to the third section of your report, Analysis of
18 the Patient Files. You deal with a number of issues on
19 page 23 that we've already discussed.

20 Can I take you to paragraph 68. You say that
21 an analysis of the files or the patient records shows
22 that the patients with higher serum T4 didn't show any
23 psychic or physical signs of overdose.

24 You say:

25 "To be sure that there is an overdose of thyroid

1 hormones at least some minor signs or expects should be
2 found and reported, which is not the case with any of
3 the patients here."

4 A. No. I don't exclude 100 per cent that there was
5 hypothyroidism, but with the data I have here I cannot
6 confirm any of those that they would have
7 hypothyroidism. It's most likely due to a wrong timing
8 of the blood vessels, the wrong condition.

9 Q. You say there's no mention of the time when blood was
10 taken in those patients.

11 A. No.

12 Q. You've dealt with your charts, with the concept that the
13 serum level of thyroid hormone thyroxine is increased
14 during the nine hours or so after a patient has taken
15 the medication.

16 A. Yes, and the higher the dose, of course, the more it
17 will increase.

18 Q. You then go on to deal with interpretation of
19 biochemical testing during therapy. I think we have
20 dealt with those issues in what you told us yesterday.

21 Then you go on to deal with lower levels of TSH and
22 again, these are issues that you've discussed before.
23 You deal with, in paragraph 71, aging and other
24 conditions which tend to lower the TSH in testing.

25 A. A point that is very important to repeat is that every

1 individual has actually a different individual range.

2 Q. This is a point you make at 72b on page 25.

3 A. I've given also references that show that. So if you
4 want you can have it.

5 It's very important in how do we know the ideal
6 reference range by a patient, is again by examining him
7 clinically, it's the end effect of the hormone. What we
8 see and what we hear from the patient is complaints or
9 absence complaints, give the end effect of the
10 treatment. We cannot do a good endocrine therapy
11 without clinical examination, and I would also suggest
12 always to do blood tests, it always is helpful.

13 Q. Let's come on to the patients again. We dealt with the
14 first part of your comments on Patient A. It's page 26
15 of your report, and we looked at everything on that page
16 yesterday.

17 Your view was that a therapeutic trial of thyroid
18 replacement therapy was justified with this patient.

19 A. Yes.

20 Q. Because of the medical history and the findings on
21 clinical examination, and you had the view as well that
22 it was beneficial for the patient.

23 A. Well, the patient says herself, "I feel much better", in
24 her witness statement before the GMC.

25 Q. We have it in the GP records as well, and the Panel will

1 recall -- perhaps not need to be given the page
2 references, from tab 1 of bundle 1 -- where Patient A
3 was reporting improvements to her general practitioner,
4 and you refer as well to improvements in her
5 constipation.

6 A. What I have done is I have grouped all the slides
7 together so we can go in the order that this report is
8 done to the information.

9 Q. That's fine but the Panel will want to follow this on
10 the page at the same time. We can certainly see the
11 slide at the same time.

12 A. Okay.

13 Q. We've looked at that.

14 A. I will present it with showing on the slides, if it's
15 okay for you.

16 We saw that Patient A had on all levels a suspicion
17 of hypothyroidism, and then she got a treatment and she
18 responded well. What is the treatment she received?

19 Q. She received a prescription from Dr Skinner for
20 25 micrograms a day of thyroxine, increasing after
21 a week to 50 micrograms a day, and the evidence suggests
22 that once she was on the higher dose, 50 micrograms
23 a day, she had headaches and felt strange, if I can put
24 it that way. She was feeling aggressive and violent,
25 I think was the word she used.

1 She told us that Dr Skinner prescribed Armour
2 Thyroid, and when she took that, her headaches stopped
3 immediately. You deal in your paragraph 77 with
4 headaches.

5 A. So Dr Lynn had said that for him it was probably not due
6 to the thyroxine because it was such a small dose.

7 Q. Yes. That was his view, what's yours?

8 A. That is a possibility, certainly. Sometimes they don't
9 tolerate because they are adrenal hormones -- the
10 cortisol is a little low, but there was no information
11 so I cannot really comment in this case.

12 Q. You said you agree with Dr Lynn that it's unlikely that
13 the headaches were due to dose.

14 A. With the information I have it's unlikely. But anyway,
15 because also a well-balanced thyroid treatment takes out
16 the headaches in the patients who are hypothyroid with
17 headaches. In 8 to 9 cases in my experience or 10.

18 Q. Could I just correct one thing that is in your report
19 and may be on your slide, that this patient was started
20 on half a grain of Armour Thyroid a day for a week --

21 A. Yes.

22 Q. -- going up to one grain and then 1.5-grains. The
23 reference is bundle 1, tab 2, page 17. But I don't know
24 that people need look at it now.

25 A. Well, I didn't have place enough to write everything.

1 Q. Don't worry.

2 A. I wanted to remain schematic.

3 Q. So the patient was treated. What's your view of the
4 prescribing by Dr Skinner for this patient?

5 A. Well, if thyroxine does not work, prescribing Armour
6 Thyroid is actually my first option. I don't go to a T3
7 and T4 combination, I go directly to Armour Thyroid if
8 they do not tolerate thyroxine, because it's more likely
9 to work in my experience.

10 Looking over, it seemed, following Dr Skinner, she
11 seemed less hypo and in the report of Professor Franklyn
12 she seemed to be euthyroid. So it didn't make her
13 hyperthyroid apparently, so I would say it's a safe
14 treatment.

15 It may not work sufficiently. If she is less hypo,
16 she should be euthyroid. So I cannot comment on that
17 because we have two different evaluations here from
18 Dr Skinner and Professor Franklyn.

19 When she was on 1.5 grains, which is I don't know by
20 heart exactly the dose that makes the T4 and T3, but
21 which is a classical dose given in hypothyroidism, you
22 see that the levels of TSH is 0.4, which is not totally
23 suppressed but it has decreased, and the free T4 is
24 12.6, so it's borderline low.

25 What I know here is that I'm almost sure she didn't

1 take the thyroid hormones before the blood tests. This
2 is one of the blood tests that was done correctly.
3 That's almost sure.

4 I would say that it could be that Dr Skinner is
5 correct because it's still quite a low T4, we saw being
6 in this range has risk factors: increased insulin
7 resistance, so you get easier fat, et cetera. And the
8 diagnosis of Professor Franklyn I don't understand, she
9 says she's euthyroid so stop the medication, and she
10 actually in blood borderline low in T4, so if you stop
11 the medication it will be even lower.

12 So I do think that there's in the UK -- it's not
13 only in the UK but it's more in the UK than others,
14 a sort of phobia, you have to treat patients within the
15 reference range because there's so much aggressiveness
16 from endocrinologists who do not agree, and probably
17 that has pushed Professor Franklyn to give this advice
18 that it probably should be stopped but that the patient
19 could continue on the treatment.

20 Here normally the patient should have remained on
21 the treatment.

22 Q. We know that her treatment was increased, of thyroxine,
23 to 75 micrograms a day and then to 100 micrograms a day,
24 and that was the treatment that the patient was on when
25 seen by Professor Franklyn, I think.

1 A. She was on thyroxine and not on Armour Thyroid.

2 Q. It's not entirely clear. We have prescriptions from the
3 general practitioner in the period running up to
4 Professor Franklyn seeing the patient which suggests --

5 A. I thought it was switched over to thyroxine after seeing
6 Professor Franklyn, and this blood test was before
7 seeing Professor Franklyn.

8 Q. Professor Franklyn certainly says she thinks the patient
9 should be taking thyroxine rather than Armour Thyroid.

10 A. Yes, but there are two blood tests, and I thought the
11 second blood test that we have here, I don't know if
12 it's correct, maybe Dr Skinner can correct here, but the
13 second test showed a little higher T4 on the thyroxine,
14 and the free T4 here with Armour Thyroid, what I thought
15 was Armour Thyroid was a little low, which is what
16 we would expect.

17 With Armour Thyroid we wouldn't expect the same
18 level of T4 than with thyroxine alone. But here it
19 seems that the patient didn't take the thyroid hormones
20 before the blood test, and then you see a normal blood
21 test.

22 So here there's, I would say here, 100 per cent for
23 me at least, and I do think that I'm the only expert who
24 has talked here actually in this sort of topic in this
25 sort of section of endocrinology. I see absolutely no

1 reason to stop the treatment, and just to continue the
2 treatment. It can be discussed if the patient has to go
3 on thyroxine or Armour Thyroid, but she needs thyroid
4 treatment because with thyroid treatment she's not
5 overdosed, clearly.

6 Q. Right. Can I bring you to the criticisms that are made
7 and which the Panel have to consider of Dr Skinner.
8 It is said that he took an inadequate history and
9 undertook an inadequate examination of the patient.

10 A. Well, we go back to the history. That's quite a lot of
11 history that I have found. I can repeat the history,
12 but I don't think it's necessary.

13 You see there's a lot of information. I have been
14 a long time a medical board member, and I've seen files
15 from GPs and there was just one or two words written on.
16 This is much, much better. It's far better than that.
17 So I wouldn't think there's an inadequate report.
18 I think that the one who has written that probably has
19 not really read the files, truthfully.

20 Q. It's said that the examination of the patient was
21 inadequate as well. You --

22 A. There's a lot of symptoms here and there are often other
23 things that are not written, cracked heels and yellow
24 tint, it's very clearly symptoms that are compatible
25 with hypothyroidism. So I wouldn't say that it's

1 inadequate. I see absolutely no sign.

2 Q. Let's come on to what may be the major criticism that in
3 prescribing at all for Mrs A Dr Skinner was acting in
4 a way that was inappropriate, unnecessary and
5 irresponsible.

6 A. You see here that if she didn't do that, if she didn't
7 receive treatment, there are increases of risk of memory
8 loss, metabolic syndrome means being fatter, having
9 a high sugar level, higher cholesterol, higher
10 triglycerides, high lipids, abnormal cardiovascular risk
11 markers in certain subcategories of patients heart, and
12 coronary heart disease, I think.

13 So I don't share that view. Also possibly an
14 increase in breast cancer risk, even mortality, so --

15 Q. Do you say it was appropriate or inappropriate for --

16 A. I think this was appropriate. I certainly would have
17 given, and certainly in face of the important complaints
18 of the patient that extreme fatigue, the constipation
19 and the fact that by giving the treatment, the patient
20 felt much better.

21 Q. Do you have any other explanation for why she improved?

22 A. I don't see how you can improve chronic depression in
23 a person who is hypothyroid. She has so many
24 hypothyroid symptoms and she probably improved on --
25 also the bowel movements were better, so constipation

1 since here teens were improved, it's almost
2 pathognomonic, it's typical for low thyroid function,
3 and that improves with treatment.

4 Q. Professor Weetman's view as to why she may have improved
5 was that she found Dr Skinner to be a nice doctor.
6 A sympathetic doctor, and Dr Lynn's view was the same.

7 A. He must have some magic powers then, to cure an extreme
8 fatigue. We have probably a new guru then. But I think
9 it's just -- we should stay matter-of-fact. She
10 received thyroid hormones, she did not see any more --
11 I think she even complained, wasn't it so.

12 Q. She was the woman who said she didn't really like
13 Dr Skinner or his manner.

14 A. She wasn't happy, so how could she be influenced by
15 a doctor she doesn't like? She would rather be more
16 fatigued and more depressed. I don't think it's proper
17 information.

18 Q. She said she was complaining to the General Medical
19 Council about him.

20 A. Yes.

21 Q. Let's turn to Patient B, if we may, please. Page 29 of
22 your report, and you've drawn up a slide for us?

23 A. Again, we see here a patient with a medical history
24 that is possible due to hypothyroid depression, but
25 depression can also be found in other endocrine

1 deficiencies. But she's also menopausal. This, I would
2 say, this patient is important because we'll see later.

3 She has symptoms that can be caused by low thyroid
4 function, or at least by an endocrine deficiency, so how
5 can you know if a symptom is caused by hormone
6 deficiency or by another cause?

7 Well, usually if you have stress you get depressed
8 for a short time, but if the cause is endocrine
9 deficiency you remain depressed all the time. Maybe not
10 all the time of the day, but every day you will have the
11 complaint, and that is very typical for an endocrine
12 deficiency, chronic symptom.

13 So she seemed to have a lot of those, no enthusiasm,
14 lack of energy, falling asleep all the time is typical.
15 Thyroid hormones are wake-up hormones. If you have too
16 much thyroid hormones, you're too much awake, you don't
17 sleep well. So when it's not enough, it's the contrary.
18 Memory lapses.

19 Thyroid hormones increase connections between brain
20 cells. So the memory's not good when you don't have
21 enough because there's not enough connections. Those
22 are the hormones of intelligence.

23 If a child has very low levels, he won't be able to
24 study, or do good studies, and it's the same for elderly
25 persons, they get memory lapses.

1 Breathlessness can also be the heart doesn't always
2 pump very good in hypothyroidism.

3 Joint pains, but it's a diffuse joint pain. That
4 I don't know from the information.

5 Fibromyalgia, in my experience those are pains in
6 muscles and in the tendons that people have. There is
7 an incidence of hypothyroidism and it often is partially
8 relieved at least when you give that to hypothyroid
9 patients, the thyroid hormones.

10 Hoarse voice, that is quite typical.

11 Puffiness around the eyes, face, hands, and feet is
12 rather quite typical of low thyroid function.

13 And under the slow heart, that's typical, when
14 you have too much thyroid hormones you're above 80 per
15 minute. Here it's 56. And dry skin --

16 Q. 58 --

17 A. Yes. So there's a lot of very typical symptoms of low
18 thyroid function, especially if you group them together,
19 you're almost sure that those symptoms will improve with
20 thyroid hormone even if you don't have the blood test
21 result yet.

22 Overweight, brittle nails, that is typical for low
23 thyroid. It improves with thyroid hormones in swollen
24 ankles, et cetera.

25 So there's a lot of good physical examination,

1 complaints were abundant, and they are suggestive of
2 hypothyroidism. So we have a medical history where it's
3 possible hypothyroidism, but it's much more clear at
4 physical examination and the complaints, and we have
5 a TSH at 2.3.

6 You have seen that there are several studies that
7 have shown increased pathology, for instance you have
8 easier autoimmune antibodies, the people are easier
9 obese or arterial stiffness, the familial hypertension,
10 there's more hypertension in families. In family people
11 have higher 2.3 so they have a predisposition to
12 hypertension, these patients.

13 Increased cholesterol, it's more likely in such
14 a patient.

15 Q. We see that.

16 A. You see that.

17 Q. Take us to the T4 level. Again, you don't need to read
18 out what is in your right-hand box.

19 A. Again, it's a T4 that is apparently in the lower
20 quartile, in the lower 25 per cent of the reference
21 range. This is also linked with a whole list of
22 diseases we have seen, or disease factors.

23 Of course, that doesn't mean that this patient has
24 all these increased risks, but some of those probably
25 she does. If she doesn't get the treatment. If she

1 gets the treatment she will probably be relatively
2 protected against those.

3 Q. We've heard that Dr Skinner prescribed thyroxine at an
4 increasing rate as he might do for such patients, first
5 at 25 micrograms, then 50 --

6 THE CHAIRMAN: Mr Jenkins, I'm sorry, could I just
7 interrupt. On the screen the T4 is 12.2 and in our
8 notes it's 16.7.

9 MR JENKINS: I'm grateful, thank you.

10 A. Patient B, you're sure?

11 MR JENKINS: It is Patient B. Let me check the result,
12 forgive me.

13 A. That's probably an error. I thought it was another
14 patient.

15 THE CHAIRMAN: So it should be 16.7?

16 A. Yes, 16.7.

17 (Pause).

18 MR JENKINS: There was a date on 21st August 02, and the
19 Panel have it at bundle 1, tab 4, page 2.

20 A. I think it's from another patient.

21 Q. If you go come to your report you've got it correctly,
22 I think.

23 A. It should be correct. The 16.7 is good, that's a good
24 value, and as I have pointed it here, I didn't put any
25 remarks, it's only the TSH above 2.1 actually, so not

1 this result that I put there that is correct. The 2.3
2 is correct.

3 Q. But you say in your report on page 29 that a therapeutic
4 trial of thyroxine was justified because of the history.

5 A. Yes.

6 Q. And the clinical signs with this patient.

7 A. Yes. It must be also some error here or an omission,
8 that I'm talking of familial history of Hashimoto.

9 Q. I think that's another patient, Patient D.

10 A. I think there are some errors there so you should take
11 that away. But there is depression, there's clearly
12 clinical hypothyroid, take out this Hashimoto, and
13 there's non-optimal thyroid test, but it's only one test
14 that is not optimal. Page 29.

15 Q. The family history relates to Patient D, I think, and it
16 may be --

17 A. Yes. I'm going to take it away here.

18 THE CHAIRMAN: I'm sorry, could I just question here? I'm
19 on page 29.

20 MR JENKINS: That is right.

21 THE CHAIRMAN: I don't see Hashimotos on this page.

22 MR JENKINS: Under "Therapeutic trial, justified".

23 A. That's an error.

24 THE CHAIRMAN: Thank you.

25 MR JENKINS: We're putting a line through "Familial history

1 of Hashimoto's and dysthyroidism, unoptimal thyroid
2 test."
3 THE CHAIRMAN: Are we saying that there could be
4 a confusion --
5 A. With Patient D.
6 THE CHAIRMAN: Or the history.
7 A. Yes. For the family history.
8 MR JENKINS: It relates to Patient D and it has clearly
9 crept in.
10 A. It is actually the technical detail. I used probably
11 slide D to make this one and I omitted to take that
12 away.
13 MR JENKINS: You say that the trial is justified because of
14 the history --
15 A. Yes.
16 Q. -- of depression. And the --
17 A. Clinical hypothyroid, and one test was not optimal. One
18 thyroid test was not. So it's always a combination.
19 One factor is for me not enough. You do have to have
20 a certain confirmation by medical history, by thyroid
21 test, and there was notable improvement, so less
22 depression, following Dr Skinner and the GP, Dr Blair.
23 Q. I don't think that Dr Blair reported much by way of
24 improvement. But Dr Skinner certainly did in his notes.
25 A. He did in one of his letters, in the other it wasn't any

1 more. In one of his letters he did, it was the letter
2 of 27/2/2004. I don't know exactly which page it is.

3 MR KARK: 4/19.

4 A. But as Dr Blair suspected that the treatment would harm
5 his patient, he did everything to take his patient off,
6 if I understood.

7 MR JENKINS: It's page 20 where Dr Blair says:

8 "When she consulted me on 15th May she had started
9 on the thyroxine tablets, having stopped her
10 antidepressants and at that stage she was feeling
11 better."

12 A. Yes.

13 Q. Yes, thank you.

14 A. I can only rely on the reports.

15 Q. Of course.

16 A. This was under treatment, so I didn't put that
17 Dr Skinner gradually increased the dose, I think it's
18 a very good technique to gradually increase the dose.
19 Why do we have to with thyroid hormones to increase
20 gradually the dose? This is very simple.

21 When you have a low thyroid function, your blood
22 volume is reduced, so there's less blood, so you give
23 thyroid hormone, it's concentrated, and there's also
24 something very particular to low thyroid function, is
25 that patients have a lot of adrenalin in their blood,

1 a lot more, sort of compensation, but it doesn't work
2 well. Because there are much less receptors, so the
3 molecules for it to work are not there, not enough
4 there.

5 When you give thyroid hormones quite quickly there's
6 much more receptors, and then with this excess of
7 adrenalin there can be palpitations and bad reactions.
8 That's why we have to start always on low doses.

9 The methodology used by Dr Skinner was in my opinion
10 perfect, I do it a little different, but it's if
11 I understood 25 micrograms of thyroxine during one week,
12 the smallest dose, then 50 micrograms during three
13 weeks, and then 75 micrograms, 3 to 6 weeks, et cetera,
14 so it's quite slow, and that's the best to avoid harm.

15 You may never give very suddenly the dose. It will
16 create bad reactions.

17 So I didn't put that, but it's here, the fact that
18 he climbed up to 75 micrograms per day of thyroxine and
19 then later switched over to T4 and T3 preparation, so
20 Tertroxin was added, 20 to 40 micrograms per day T3. It
21 wasn't clear to me if it was given once a day or twice
22 or three times. I thought it was given once a day from
23 what I had in the reports. So the patient was
24 hypothyroid, still on the treatment, following
25 Dr Skinner, but the GP talked about an episode of

1 thudding heart, of a sort of heart palpitations, and
2 we've discussed that.

3 Now, what sort of heart problems do you get when you
4 get a too high dose of thyroid hormones or you don't
5 tolerate it? It's a 24-hour on 24-hour problem. You
6 get the whole day and the whole night your heart goes
7 too quickly, and you feel it even more in the evening,
8 because in the evening you rest down in your bed and
9 then you feel your heart beating stronger.

10 Q. So you're saying it's not an episode if the patient is
11 overtreated?

12 A. It should not be an episode, no.

13 Q. It should continue?

14 A. It could have been because I see no information here.
15 It could be alcohol but it also could be caused by
16 caffeine. If my patients take caffeine, two cups
17 a coffee with the thyroid treatment, they will not
18 tolerate it, because it's like a supplementary dose of
19 adrenalin, and they have already, once they're well
20 treated, so many receptors.

21 So the recommendation, and that is generally given
22 in endocrinology, is to avoid caffeinated beverages
23 during treatment of thyroid deficiency. One cup of
24 coffee maybe, but two is generally too much. There
25 could also be another cup but there's no information on

1 that.

2 Q. What we know of this patient, and again the Panel will
3 recall the reference at tab 3, page 21, is that ten
4 years or so before in 1992 Patient B had had over
5 a period of a month episodes of flutters in the chest
6 off and on for about half an hour and a raised pulse.

7 She was asked to do a diary of those palpitations by
8 her GP, and that indicated that she was having episodes
9 quite frequently each day. Might that be relevant if
10 she's having palpitations --

11 A. So she probably has another cause --

12 Q. -- without being on thyroxine at that point?

13 A. When I receive, because I don't always have everything
14 in memory, but if she has heart beating at 52 per
15 minute, you can almost 100 per cent exclude any
16 hypothyroidism, so that's further confirmation.

17 Q. I'm afraid when we come on to the lab tests you've got
18 two figures in the wrong box, and the Panel will want to
19 look at tab 3 of bundle 1, page 118.

20 Just looking at the lab test results, the Panel
21 I hope have tab 3, page 118. For the first lab test of
22 two, 5th December 2003, the TSH result was below 0.1 and
23 for the next lab test, 1st September 2004, the TSH was
24 0.2, so they're transposed.

25 A. And also the T4 or not?

1 Q. No, the T4's right. I'm going to ask you to look at
2 that page, page 118 on tab 3, just to check.

3 A. I have here three blood tests.

4 Q. All right. So what you've said of the result on
5 5th December 2003 -- and perhaps we should look at the
6 page in the GP records to see where that test was taken,
7 it's page 28. Do you have page 28 of that same tab?

8 A. Okay, I have the two pages.

9 Q. The note on 4th December 2003 --

10 A. Apparently thyroxine 225 micrograms, and pulse is at 76,
11 and blood pressure 150 on 60, 70.

12 Q. It's not clear whether it's 150, 60 or 80 over 70. It's
13 not too easy to read Dr Blair's writing, but he said
14 "TFTs [tick]", which implies blood was taken on that
15 day.

16 A. Yes, so you cannot really comment and I don't really
17 have real clinical symptoms of excess thyroid hormones.
18 If was 100/80, 70, you could have that because of an
19 excess of thyroid hormones, because there's a big
20 differential, but 150/70, certainly not.

21 Q. But there's no indication that the patient was told
22 before that day not to take her medication before the
23 blood test was taken?

24 A. No, and if you really have -- this is in December,
25 so -- in September or December?

1 Q. This one is December 03. The next one is taken nine
2 months later in September 04.

3 A. If you really have a T4 at 39, which is very high, and
4 a TSH 0.1, you should have a quicker pulse rate than
5 76 per minute. It should probably be around 90, 100, or
6 110. So it's likely the patient took the thyroid
7 hormones before and that this test is due to too much
8 thyroid hormones, it's very likely.

9 Q. Well, what you've said is in the right-hand box,
10 you have said:

11 "Most likely cause, blood test taken hours after the
12 intake of thyroid."

13 A. Yes: other possible causes that she may have some
14 central hypothyroidism which is not really confirmed
15 because if you have a TSH of 2.3, I wouldn't call it
16 central hypothyroidism.

17 Low T3 and T4 receptors -- I don't really think
18 we have to talk about the rest. It's for me so clearly
19 that almost to 99 per cent only possible cause is taking
20 the hormone before there is apparently no physician here
21 who has raised that point. I do not understand. What
22 I would have done is taken a second blood test to check
23 and specifically asking not to take the thyroid hormones
24 before. Then you get your confirmation.

25 Q. Let's go on to the next test in September 2004.

1 A. What is good is we have some information on the most
2 frequent antithyroid antibodies (inaudible) are not
3 there not detectable. Here we have borderline high free
4 T4, which will be good to have a normal T3, but the TSH
5 is slightly suppressed.

6 (Interruption due to technical problem)

7 THE CHAIRMAN: We will take our break now.

8 (11.05 am)

9 (A short break)

10 (11.25 am)

11 THE CHAIRMAN: Mr Jenkins.

12 MR JENKINS: We were looking at Patient B on page 30 of your
13 report and we've just corrected two figures that have
14 been transposed, the TSH figures for 5th December 2003
15 and that for 1st September 2004.

16 A. On my report there's a little correction to put, that
17 I put a footnote on T4, the thyroid lab tests of
18 11th November 2004, 13.5. I think it was without
19 treatment at that moment.

20 Q. It certainly was by November, yes.

21 A. So you have to take out the little footnote.

22 Q. You had an asterisk, and you said above reference range
23 for that, but it's not.

24 A. No.

25 Q. If we look, and perhaps the best place to look at it is

1 page 118 of tab 3.

2 A. So that's a TSH that is slightly too high to be without
3 risk factors.

4 Q. When she is being treated in December 2003 --

5 A. Yes.

6 Q. -- and there's no indication that she's told not to take
7 her medication in December.

8 A. No.

9 Q. The T4 is 39, the TSH is less than 0.1.

10 A. Yes, that's most likely the --

11 Q. Nine months later, at about the time the treatment
12 stops, from Dr Skinner, her T4 -- and again we don't
13 know --

14 A. She's probably on the treatment at that point, she
15 wouldn't have this level of TSH and free T4.

16 Q. But by November 04, when she's certainly off the
17 treatment, her T4 level is down to 13.5.

18 A. Yes.

19 Q. And her TSH is back to 2.4.

20 A. Both values are not optimal. We have seen that based on
21 the studies I have shown before.

22 Q. When you're saying both values are not optimal, do you
23 mean the November 2004 values?

24 A. Yes, is not optimal. TSH is, in my experience, a little
25 too high, and the free T4 is discussable, could you

1 accepted or is slightly too low. When we look
2 before ...

3 Q. The early readings were --

4 A. Here you have to have 16.9, I believe.

5 Q. It's 16.7 or 16.8. The two pages the Panel will want to
6 remind themselves of are tab 4, pages 2 and 3. One is
7 a reading in August 2002 where the T4 level is 16.7, and
8 the other is a reading in January 2003 where the reading
9 is 16.8.

10 A. What I wanted to point out is the following: we are back
11 to before. So it was suggested that giving thyroid
12 hormones during a certain time might be detrimental.
13 This is what the classical have, we come back to the
14 previous values, and even if you give that to a patient
15 who has received thyroid hormones during 20 years,
16 usually tests show that it's back to initial values as
17 before.

18 I have another study that I didn't include here,
19 a very old study where you have patients since 30 or
20 33 years of treatment, they came back to initial levels,
21 which is not normal because normally you have a certain
22 aging of the axis, you should have lower values after
23 20/30, years and apparently in those studies the levels
24 were back to normal. But what I wanted to point to you
25 it is not only that the --

1 Q. Slow down a little, if you would, please.

2 A. What I wanted to point to you is not only that the risk
3 factors cause problems here because of the blood test,
4 but that if she stopped, she probably had again her
5 symptoms back.

6 Q. Well, Dr Blair hasn't recorded --

7 A. And he had recorded in the beginning that there was
8 a certain improvement, and so she normally will have
9 back her symptoms. It becomes slowly and progressively
10 back. It takes several weeks, several months, but they
11 normally come back if they were relieved by the thyroid
12 therapy, of course, because it's not as well noted here.

13 So what I've put in here also is Patient B,
14 information on possible harm. So I think here the
15 possible harm is not of doing a treatment trial, but the
16 absence of thyroid therapy long-term. This is really
17 what I experience in patients, that you do have to watch
18 out. We are there to relieve the symptoms.

19 I think both Dr Lynn and Weetman agreed that there
20 wouldn't be any problems later on because of this
21 therapy trial, of what I understood of their reports.

22 Q. Can I take you back to page 29 of tab 3. It covers the
23 period --

24 THE CHAIRMAN: This is tab 3/29?

25 MR JENKINS: Tab 3, page 29, yes.

1 Blood is taken at the top of the page on
2 1st September 2004, and the blood pressure recorded of
3 Patient B is 150 over 80.

4 A. And later on I see also in November, it's 170 on 90.

5 Q. Well, I'm going to take to you earlier blood recordings
6 as well, but if you go back one page, we've looked at
7 the date when blood was taken in December 2003, pulse is
8 recorded as 76, and the blood pressure, it's not clear
9 quite what's written, whether it's 150 or 160 or even
10 180 over 70.

11 A. So it's a similar, I would say, blood pressure, so
12 I do not think we have here a condition of excess
13 thyroid hormones in December 2003.

14 Q. Can I take you to page 26, please. The same patient.
15 This is years before Dr Skinner prescribes any thyroid
16 replacement therapy for this patient. We're dealing
17 with recordings in 1998.

18 There are blood pressure readings for this patient
19 on 26th May 1998 of 160 over 86, lower down 170 over 80,
20 and below that 160 over 85.

21 A. So it's equally the same, yes. Higher blood pressure,
22 because she has high blood pressure, is quite typical of
23 low thyroid function. When you have a low thyroid
24 function the arteries, the walls of the blood vessels
25 are thicker, they're full of myxoedema and it's very

1 hard, they don't extend easily, so they're less supple.

2 And typically in several studies that I've
3 consulted, you see the blood pressure going down. And
4 it's quite uncommon, I would say, that a patient has to
5 continue anti-hypertensive medication if they get
6 a thyroid hormones because they have a thyroid
7 deficiency. So after six months to a year often we do
8 have better results, the blood pressure goes down.

9 What is quite typical for low thyroid is a higher
10 diastolic, it's the lower blood pressure's a little
11 higher, but here it's 90 actually, so it's a little on
12 the high side.

13 Q. So just looking generally at Patient B, the allegations
14 against Dr Skinner that at his initial consultation he
15 took an inadequate history and undertook an inadequate
16 examination of the patient.

17 A. If you compare his examination with what I see from
18 Dr Blair, I believe, there are almost no notes, so
19 I think it's much more extensive and I see no problem
20 there. But the notes here of the general practitioner
21 are typical of what you see in many general
22 practitioners.

23 Q. Well, Dr Lynn said of the history that Dr Skinner took
24 and of the examination, Dr Lynn's comments were that
25 they were perfectly adequate. Do you agree with him or

1 not?

2 A. I would agree with that, yes.

3 Q. And of the prescribing to Patient B at all stages, both
4 the initial prescribing and subsequent prescribing when
5 the levels were increased, what do you say of the
6 allegations against Dr Skinner that his prescribing was
7 inappropriate, unnecessary, irresponsible and risked
8 putting the patient at harm, it wasn't in her interest?

9 A. I think it's the opposite. I can absolutely not confirm
10 any risk here, and again the explanation is that the
11 thyroid tests were not done in the right conditions.

12 Q. You say that of the readings in December 2003?

13 A. Yes, and you see also there's no real harm because lab
14 tests are the same as initial, after two months of
15 treatment, stopping of the treatment.

16 Q. Well, again --

17 A. It takes three weeks to put everything back and normally
18 what I do with patients, I rather do tests six weeks
19 later when treatment is stopped.

20 Q. If this patient had been made thyrotoxic by the
21 medication that was prescribed for her, what would one
22 expect to have seen?

23 A. At the moment of being thyrotoxic you do have to have
24 hypothyroid symptoms and complaints, clearly when you
25 know very well the clinical case it's so easy to see,

1 and with blood tests here you cannot know. You should
2 do again the blood test. I would have advised actually
3 to do again the blood test when this has happened.

4 Q. What about physical signs and symptoms of the patient if
5 she had been rendered --

6 A. It's very well-known in medicine how to recognise. The
7 ask the patient to put his hand out and they tremble
8 a little bit. They have sweating, the skin is often
9 like that of a baby, it's getting too soft but also wet.
10 You have too dry skin when there's not enough. You have
11 too soft skin when it's too much. They have in the
12 eyes, just when they look at the eyes, they look very
13 anxious, they have a lot of adrenalin and it gives what
14 we can call an adrenalin look.

15 They tend to be quite nervous, you see that
16 the blood pressure often is a big difference, the lower
17 blood pressure goes down and upper blood pressure tends
18 to go up. They can have for instance 14/4 of blood
19 pressure, or 140/40, and not the classical 13/7 or 13/8,
20 and 12/7, 120/70 et cetera. So they tend to get
21 a greater difference between the two blood pressures,
22 and their heart beats quickly but regularly, in
23 a regular pattern.

24 Sometimes I doubt, but when you examine the patient
25 it's so easy. You really can examine. Sometimes when

1 I'm not sure about the doses a little too much or
2 normal, after examination of the patient I don't have
3 any hesitation.

4 You hear the heart bounce also much stronger, too
5 strong, and of course, it could be emotionally, it could
6 be because they took coffee before, so you have to
7 control that, but there's enough information to be sure
8 if the dose is even slightly overdosed by clinical
9 examination, in my experience.

10 Q. Let's turn to the next patient, please, Patient C. The
11 Panel will want to turn to page 32 in your report.

12 A. Again, I have tried to combine everything because I --
13 it's too difficult to go from one page to the other of
14 the report, so I prefer to group together what I have
15 found as evidence. You see the diagnosis of
16 hypothyroidism again should be based on the different
17 aspects, the medical history, history of being unwell,
18 that is any endocrine deficiency, since menarche with
19 irregular periods and polycystic ovaries. When the
20 thyroid function doesn't work enough, the ovaries cannot
21 work enough either.

22 So it could be either a lack of sex hormones, the
23 ovaries don't work well, or that lack could be caused by
24 lack of thyroid hormones, which are hormones that
25 stimulate all the endocrine glands.

1 Then typical when they take out the tonsils in
2 childhood, it's a child who has had a lot of infections.
3 That is suspicious of a thyroid deficiency.

4 Secondary amenorrhea, so she had her first
5 menstruations probably quite early, and then after she
6 seemed to have -- they have stopped because maybe she
7 developed more hypothyroidism at that moment. So this
8 is compatible with a history of a certain degree of
9 hypothyroidism. Clinical examination, poor energy is
10 very general as a symptom. Ongoing fatigue that can be
11 caused by low thyroid function. Poor memory also,
12 that is more typical, I would say, to low thyroid
13 function. Difficulty in concentration.

14 And then what is quite typical of low thyroid
15 function is the dry skin. That is as hormone deficiency
16 number 1 deficiency. In my experience, what you have to
17 watch for is thyroid deficiency.

18 Then the bradycardia, 60 per minute is normally too
19 low as opposed to a person who does not do extensive
20 sports.

21 Dry skin and hair is also pointing to the direction
22 of hypothyroidism. So I would say that physical
23 examination is more -- I wouldn't say mildly
24 hypothyroid, I would say hypothyroid, and when you look
25 at the lab test, again we have a TSH above the 2, so

1 several studies show increased pathology, I am not going
2 to repeat it all the time.

3 THE CHAIRMAN: Mr Jenkins no date, am I right?

4 A. There's probably a date but I haven't put it on.

5 MR JENKINS: Can I give you the page reference, it's
6 bundle 1, tab 6, page 3. That's the date of the lab
7 test, which is 10th March 2004.

8 THE CHAIRMAN: Thank you.

9 MR JENKINS: If you were to go above to the medical history
10 and clinical examination, the page reference should be
11 1, tab 6, page 1.

12 The date of the consultation of Dr Skinner is
13 6th March 2004.

14 You've analysed the TSH above 2.1 before and you've
15 analysed having a T4 in the lower quartile, 25 per cent.

16 A. So it's quite close to that so I repeated the
17 information a bit to 2.1, so you do have studies that
18 show that there's a risk of increase.

19 Now, I'm talking about all those studies because
20 that's what I found. But there's a lot of -- there can
21 be a lot of complaints also that I don't talk about
22 because I didn't find the studies. But you have to
23 think that that patient already suffers, she does have
24 complaints of low energy and probably much more.

25 I think here the uptake(?) was not as good as before

1 but still satisfactory for me. But what the patients
2 most want is not that you decrease their risk factors
3 but that they get as quick as possible relief of their
4 problems, their symptoms, so you have to think that
5 there are also problems related to a lower T4 and
6 a little higher TSH.

7 So because of the clinical symptoms, the medical
8 history, and the blood test, I think it's justified to
9 give here a medical history, to give here a therapeutic
10 trial. Was it beneficial or not, it's not as clear here
11 in this patient. Following Dr Skinner it was for some
12 improvements, less weakness, better concentration, the
13 tongue decreased in volume, it was less swollen, and
14 there was still some low pulse, 64 per minute. It could
15 be acceptable but it's better to have 68 or 72 per
16 minute, and energy slightly better. So it gave
17 a certain effect.

18 Following the GP it wasn't so, the patient felt not
19 better on thyroxine and feels a lot better off
20 medication. But he did not specify what is better, so
21 it's not so clear for me.

22 For Dr Rodin, endocrinologist, he felt no better and
23 no worse on or off treatment, it did not work but it
24 wasn't ... So there are three different opinions here.

25 Q. The other issue with this patient, Patient C, is that in

1 August 2004 when she changed from one practice to
2 another she said she was taking three preparations and,
3 again, we have seen it in bundle 2, tab 2, page 2.

4 When asked to include the name and dose of all
5 regular medication, Patient C said she was on thyroxine,
6 Armour Thyroid, and Tertroxin, the T3 preparation. The
7 second of those, Armour Thyroid, was not prescribed by
8 Dr Skinner. That's the evidence that we have heard and
9 we've seen no documentation to suggest that he did.

10 If she was taking that in August 2004, as she said
11 she was, in addition to thyroxine and Tertroxin, might
12 one expect the laboratory tests to reflect Armour
13 Thyroid and T4 and T3?

14 A. This is compatible, but again I think it's mostly that
15 the medication was taken before the blood test. That's
16 the most likely cause, but it could also be
17 overmedication by self-medication by the patient. It's
18 difficult for me to say. It could be both pictures.

19 Q. We have not heard from the patient, all we know of the
20 patient is what's said in that document, the one she
21 completed. But coming back to the issue of whether she
22 should have been placed on a therapeutic trial or not
23 and Dr Skinner's prescribing for her, what do you say?
24 We see your slide says that it was justified to put her
25 on a trial.

1 A. Again I don't justify it on one test or one group of
2 symptoms but on the fact that the whole medical history
3 was clinically hypothyroid or suggestive at least of
4 being hypothyroid and TSH above 2.1, and a free T4 in
5 the lower quartile. I think we can talk of a mild
6 thyroid failure that needed treatment.

7 Q. Can we just deal with some references for the Panel
8 perhaps to make a note of in your report. There is an
9 entry at bundle 1, tab 5, page 1 for 5th October 2004.
10 This is the GP's records, saying, "Feels no better on
11 thyroxine".

12 There's an entry on page 2, an entry for
13 28th October 04 in the GP records, "Feels a lot better
14 off medication".

15 At page 13 of that bundle there is a letter from
16 Dr Allen to Dr Rodin in which, as you point out, the
17 patient herself felt no better or worse on or off
18 treatment, is what is said.

19 Dr Skinner though had noted improvements in her
20 signs and symptoms when she was on the medication. But
21 as to putting her on a trial and the suggestion that his
22 prescribing was inappropriate or unnecessary or
23 irresponsible, what do you say?

24 A. Irresponsible, certainly not. I would have put probably
25 the patient also on a therapy trial. The fact that they

1 didn't seem to have a lot of results is maybe due to the
2 fact that the dose was maybe not adequate or the type of
3 preparation was not adequate.

4 If we look at the type of preparation, there was no
5 dessicated thyroid. It could be that this patient might
6 have been better with dessicated thyroid than a T4 and
7 T3 preparation.

8 Because the problem, I will repeat, of synthetic T4
9 and T3 preparations is that it's given once a day and
10 the T3 will go quickly in the body and quickly
11 disappear. So the effect of T3 will be short term.
12 It's better to have a preparation that releases more
13 slowly its T3 like dessicated thyroid where you have
14 a more 24-hour on 24-hour effect and not just a 4 or
15 5-hour effect of T3. So it might be due to the type of
16 preparation.

17 The mild improvement that was talked about was the
18 tongue was a little smaller, the heart was a little bit
19 quicker, but that really shows that actually there was
20 still some hypothyroidism, I believe.

21 We have the same here with the lab test, so I would
22 say the first likely cause is a wrong condition of blood
23 intake, but the second possibility could be an eventual
24 overmedication if she took the thyroid hormone, if she
25 did the blood test correctly. But this I cannot know

1 with the information I have here.

2 Q. I understand. Well, again, we've not heard from
3 Patient C as to when --

4 A. There's a blood test I found, it was not clear to me if
5 she was still on the treatment at that moment, of
6 21/9/04, where the TSH is too low so she probably was on
7 the treatment, yes. Here it's not so easy to know if
8 she took the thyroid medication before the blood test or
9 not. But again, she rather is hypothyroid, I would say
10 she's certainly still hypothyroid based on the
11 information I have from Dr Skinner.

12 Q. Well, again, do you have any criticism of Dr Skinner's
13 actions with regard to this patient?

14 A. I think it's completely following the guideline of the
15 International Hormone Society, and I think it's an
16 adequate treatment that didn't have the time to go off
17 to maybe a more efficient medication.

18 After stopping we have the same, the TSH goes back
19 to where it was before, so normally there's no harm to
20 the thyroid gland for such a treatment. Again, I have
21 to repeat there are studies where the patients were
22 taking for more than 20 years and in 3 weeks or 4 weeks
23 time it comes back to normal.

24 Q. Let's go to the last patient, if we may, Patient D.

25 A. So Patient D medical history was more abundant and this

1 was the patient with autoimmune disease in the family,
2 and a lot of different sorts of thyroid dysfunctions in
3 the family, hypo and hyper. When a person has been
4 hypothyroid many of those patients end up by being
5 treated -- end up later on with hypothyroidism.

6 So when there's already history of autoimmune
7 disease there is generally -- because it's also
8 personal, so she normally has autoimmune antibodies, and
9 those patients are more likely to develop
10 hypothyroidism. That's a well-known fact. So the
11 medical history is quite strong for at least a mild form
12 of hypothyroidism.

13 And the complaints: lack of energy since more than
14 seven years, typical for endocrine deficiencies. How to
15 spot the difference between a wrong food intake and have
16 a lack of energy caused by wrong food intake on
17 endocrine deficiency. Endocrine deficiency is every day
18 you have the complaint.

19 Frequently sleeping during day time, a major symptom
20 of hypothyroidism is sleepiness, you sit and you fall
21 asleep, or you tend to have what you call somnolence.
22 That is very typical, it's not in other endocrine
23 deficiencies described as such.

24 Constipation, quite typical for low thyroid
25 function.

1 Muscle and joint pains, but if it is caused by low
2 thyroid function, it's all over the body, it's not just
3 in one place.

4 Headaches, frequent in hypothyroidism, and they are
5 often very well relieved through thyroid medication.

6 Lower back pain. Why do patients with
7 hypothyroidism have lower back pain? The ligaments are
8 more relaxed. A child has flat feet typically on low
9 thyroid, and later an adult will keep on the flat feet,
10 and the back is more bendy and you have more pain and
11 typically, in my experience, it really works to give
12 thyroid hormones to relieve this sort of pain.

13 I've seen, not only in a child, but also in an adult
14 with hyperlaxicity, a sort of bended back, hyperlordosis
15 it's called, to bend it back, straighten up with thyroid
16 hormones in one year's time.

17 So memory loss, typical, comes often in low thyroid
18 function.

19 Depression, of course. It's more a morning
20 depression, you get better when you move.

21 Decreased interest, typical. They get apathetic,
22 they're not interested in things any more because they
23 lack energy and they lack, I would say, spirit.

24 Q. We heard that vividly from Patient D.

25 A. She testified?

1 Q. She did.

2 A. Okay. Slow movement, slow speech. This is very typical
3 for low thyroid function.

4 Physical sign, being overweight. This is a sort of
5 massive obesity, that is not only caused by low thyroid
6 function. Low thyroid function, the patients tend to be
7 swollen up and to be obese, but not massive. If it's
8 massive, there's also another problem.

9 Thyroid gland is enlarged. That's a reason often
10 also to give, even if she has normal lab test, thyroid
11 hormones, because it could enlarge further into
12 a goitre, to a bigger thyroid, but it depends. I have
13 no information on how large it was. So it depends on
14 the volume.

15 I would have done here an echography of the thyroid
16 gland. There's moderate bradycardia, 65 per minute.

17 Rough hair. The hair is rougher, it's thicker in
18 low thyroid function, but dry. It's very typical, it's
19 actually myxoedema of the hair, it's thickened by also
20 myxoedema.

21 And swollen tongue by myxoedema. The waste products
22 accumulate in the tongue.

23 So I would say clinically in history the real
24 typical person, and we'll look at the test here.

25 Q. She gave the results and the Panel have them in the

1 documentation at bundle 1, tab 8, page 4, she gave some
2 test results.

3 A. Yes, I found them also elsewhere.

4 Q. They're certainly in the GP records at tab 7.

5 A. The first results that you see here are normally results
6 that the patient, if I well understood, had before
7 taking any thyroid hormones. I just put them with the
8 dates in 2003, 2004, and then I have a lab test where
9 I didn't put the date here, so I can't help you there.
10 That was what I thought was the initial lab test, before
11 treatment.

12 You see that TSH is 1.9, so I would say it's near
13 the 2, which is possibly associated with disease in
14 subgroups of patients.

15 And the free T3 is 5.7, which normal actually.

16 And the T4 is 14.2, which could be near the lower
17 tertile, so the blood tests are less conclusive in this
18 case, this is really, I would say, a sort of borderline
19 case where the lab tests are not 100 per cent bad,
20 they're not optimal but you do have some hesitation, are
21 you going to do a therapeutic trial or not.

22 Q. Can I say that the lab test that is that Dr Skinner did
23 are at tab 8, page 16. Those are the TSH results of 1.9
24 and the T4 level of 14.2.

25 A. Yes.

1 Q. The earlier results, if the Panel want to remind
2 themselves, are at tab 7, page 5, where in 2003 --
3 I don't think we have the month because it has been
4 chopped off on the photocopy that I have certainly --
5 there's a TSH level of 1.1.

6 A. But to make a clinical diagnosis you take everything.
7 If you have normal blood test, which is more or less the
8 case here, but you do have severe complaints, I would
9 say a therapy trial is justified in this case, because
10 also it was severe symptoms, that were not released in
11 seven years, she had terrible lack of energy.

12 Q. I think it was six, but perhaps the point is the same.

13 A. Well, it's five, six or seven, it would be the same. So
14 I would say justified.

15 Also the familial history of Hashimoto, those are
16 patients who easier will make hypothyroidism during
17 their lifetime. So I think it was justified, and the
18 fact that the therapy was given gave a sort of major
19 improvement. Much more energy, less depression because
20 they're awake during the day, this is what we typically
21 see with patients.

22 I had also recently a patient like that, that had
23 thyroid hormones before, was taking thyroid hormones but
24 was still depressed and fatigued, and we searched over
25 because she didn't respond so well, she came from

1 Germany, and after three months of treatment, the
2 husband said to this doctor: I cannot believe this, she
3 has laughed more during these three months than in the
4 whole life I had with her. 30 years I lived with her.

5 She had laughed more. I think she must have been
6 terribly depressed all the time, that woman, but it
7 shows you, this is not because the doctor has charisma.
8 That is not possible.

9 A placebo effect takes a certain time, but at the
10 end the placebo effect will die off, but this person
11 will stay in a good condition because the cause of her
12 depression, of her fatigue, was treated by a better
13 thyroid medication.

14 So it's a bit about the same enthusiasm that you see
15 in this patient, although not everything is relieved,
16 about 90 per cent seem to be relieved, if I could have
17 the information I have found in the file.

18 I would say this justifies the treatment and the
19 therapeutic trial itself. Then as a treatment, small
20 doses were given up to 200 micrograms.

21 The patient is a good converter of T4 to T3 because
22 with thyroxine she had major improvement. Again,
23 we have blood tests that are above reference range also
24 for the free T3, which I think is very good to ask.

25 Q. Can I pause you there. Just to give the Panel the

1 reference to the lab tests. The Panel will recall that
2 at tab 8, page 44, the lab tests show all the results
3 that you've recorded, the 27.2, the less than 0.1 for
4 the TSH, and the free T3 at 7.7.

5 A. So here we have two possibilities with these lab tests.
6 The patient is clearly overdosed, or she has taken the
7 thyroid hormones before.

8 Apparently there's no recording of hypothyroid
9 signs. I would opt that by far the most likely cause is
10 the fact that again she took the thyroid hormones
11 before, which had never been done during treatment.
12 Before a blood test, no thyroid hormones.

13 Q. Let's come on to your view about this patient. The
14 Panel did hear her evidence about how her life changed
15 significantly once she was on treatment.

16 A. I think this is a very important -- you need in the UK
17 to have an alternative. When you look at the position
18 of the endocrinologists, official endocrinologists that
19 are actually diabetologists, is that you only treat the
20 lab tests, you do not treat the patients, you treat
21 their lab tests at least for hypothyroidism, and such
22 a patient would not be treated then. She would be
23 considered fully normal and all the rest is
24 psychological.

25 What were her symptoms again ... Let me see here.

1 Her headaches, memory loss, decreased interest is
2 psychological, because the thyroid hormones are normal.
3 So she would remain her lifetime with those symptoms
4 without the treatment.

5 Imagine what a miserable life and what tragedy to
6 continue with those symptoms. If the treatment is
7 a placebo effect after six months, it dies off, it does
8 not remain, and it will never get that sort of
9 improvement.

10 So I think it's very important to consider that
11 we're not talking only about lab tests here, we are
12 talking about living patients and living humans, and
13 I think this is the classical case that motivates
14 physicians to say: it's not all lab test, it's also
15 clinical symptoms and we have to treat.

16 Q. It motivates the clinicians.

17 A. It motivates the clinicians very, very much.

18 Q. Again, the criticisms of Dr Skinner are that he should
19 never prescribe for this patient, that it was
20 irresponsible for him to do so, unnecessary, and
21 inappropriate. What do you say?

22 A. I would say not treating her in this case and not doing
23 a therapy trial is inhuman, it's not human,
24 humanitarian. You at least have to do a therapy trial
25 in this case. There's enough data to do it, and the

1 fact that it worked is a good indication.

2 There is the problem that because of this
3 controversy that she is now not any more on the guidance
4 of a physician. This is not good, but what other choice
5 does the patient have? Remain with all those symptoms
6 or be a normal person by taking her thyroxine through
7 the Internet? And it's the responsibility of the
8 physicians to have an ear open for those patients and to
9 have the possibility of being able to do therapy trials
10 with those patients without overdosing them, of course.

11 Q. The other criticism of Dr Skinner in relation to this
12 patient is that he didn't examine her properly, didn't
13 take a proper history. What do you say about that?

14 A. I don't see this, when you look at this, compared to the
15 GP's notes I think it's very evident that there is data
16 written.

17 Q. I should have asked the same question in respect of
18 Patient C, and I didn't. Did you see anything in
19 Dr Skinner's examination or history taking with
20 Patient C which falls short of what he should have done?

21 A. I have found less information about the complaints, the
22 physical signs, maybe I didn't look good in the files,
23 it could be. But there was enough information to
24 justify therapy trial, so I think we can say it's
25 satisfactory and it was, I would say, even better in

1 Patient D.

2 Q. Right. Thank you. You deal with other matters in your
3 report that follow on, but I think we've dealt with them
4 all in the other aspects of the evidence that you gave
5 yesterday.

6 A. I summarise a bit about the four patients, of what
7 I see.

8 Q. Do.

9 A. Is it useful?

10 Q. Do summarise it, but I'm sure you can do so briefly.

11 A. Yes. Diagnosis of hypothyroidism in the four patients
12 has a high likelihood of being correct and the therapy
13 trial was therefore also justified.

14 So I think diagnosis, there was enough indications
15 to do a safe therapeutic trial.

16 The fact that he treated I think three of the four
17 patients at a later stage with T3 and T4 medication,
18 including Armour Thyroid, I think can be considered as
19 acceptable, and I don't think here it has really been
20 argued any more that there should be a place open for
21 T3/T4 medication (inaudible) T4.

22 About the follow-up, I cannot prove any real excess
23 of thyroid hormones based on the information I have.
24 There is never a real clinical sign of hypothyroidism
25 noted wherever, nor by the GP, nor by the

1 endocrinologist, nor by Dr Skinner. On the contrary,
2 there are symptoms often that the patient is still
3 hypothyroid or is good, and feels good.

4 So biochemically I have no proof where I can really
5 say there I have no doubt. It's most likely a wrong
6 condition of blood withdrawal, that is very typical,
7 when I see that the first thing I think is it's a wrong
8 blood intake. And that misled Dr Skinner, the GPs, and
9 the endocrinologists, and diabetologist. You'll get
10 a copy of this, but there seems to be problem to make
11 copies for everyone.

12 Q. I imagine the photocopier's feeling exhausted but we'll
13 sort it.

14 A. What about alleged risk in these patients? The thyroid
15 treatment had no effect or reduced in this case the risk
16 of atrial fibrillation. We have seen this yesterday,
17 that T3 can reduce the risk of atrial fibrillation, and
18 there is no indication that it would have caused this,
19 because based on the blood test we cannot -- the blood
20 test was done not on the right condition.

21 Only one patient, I would say, could have a mild or
22 no risk of reduced bone density following the study.
23 That is the patient with post menopause. I don't
24 remember which code --

25 Q. Patient B it would be. She was the eldest.

1 A. So she is at risk of having a transitory, because it's
2 the first year that you have a reduction in bone density
3 apparently following the study, but she does not have
4 a risk of increased risk of fractures, because this is
5 in the loss of bone the major problem, the bone
6 fractures. So there is no proven risk in two studies,
7 and I think Mr Kark showed a study that is somewhere
8 here, where you had this difference.

9 And there is no proof that thyroid treatment may
10 damage or atrophy the thyroid gland in these patients.
11 On the contrary those who had stopped had again the same
12 lab test as before which is indicative that there was no
13 damage.

14 Now, the real risk, I really think, and this is
15 really my belief and also my experience, is that there
16 is a risk of stopping the treatment, and the absence of
17 treatment of the four patients has a high likelihood, in
18 my experience, to continue or to reappear again the
19 hypothyroid symptoms and complaints they had, and for
20 a lifetime, and increase also the risk of disease.

21 We saw that with the studies. We have seen the
22 certain reference ranges you can have an increased risk
23 of disease, and it possibly may also shorten their
24 lifespan because many of those diseases like coronary
25 atherosclerosis, that means that the blood vessels for

1 the heart are blocked with plaques of atheroma, and the
2 stiffening of the arteries are linked with increased
3 mortality.

4 So it is not an easy thing to do. A good diagnosis
5 for hormone deficiency takes time. At my place we take
6 one hour with the patient. I heard that Dr Skinner at
7 least for the first consultation does also one hour.

8 But once you get all those collection of
9 indications, I think a therapeutic trial is worthwhile,
10 also for the long-term consequences. Not only for the
11 short-term happiness or wellbeing of the patient but
12 also to avoid or to prevent or to delay other
13 age-related diseases.

14 So I think this risk is far greater of an
15 aggravation of her health situation or of a maintenance
16 of her poor health situation, than the risk we could
17 have of an atrial fibrillation or reduced bone density,
18 which in this case is almost not the case in any
19 patient.

20 So I do have a remark I think on the practise of
21 Dr Skinner. I think he should continue doing blood
22 tests in patients during follow-up because there seem to
23 be some indications that might not be so, but without
24 intake of thyroid medication before. I think really
25 this is the ABC of endocrinology.

1 I think also it's useful to have a free serum T3
2 because you do a normal blood withdrawal in good
3 conditions, non-thyroid hormones before, and the patient
4 could have high T4, and you would say then she's
5 overdosed because she didn't take the thyroid hormones,
6 but, no, it's not the real active hormone.

7 Q. Slow down a little, if you would.

8 A. It's not the real active hormone, the T4.

9 So you do need to know if the T3 is also not too
10 high. If the T3 is too high, the T4 is too high, and
11 TSH is depressed, and the patient did not take the
12 thyroid medication before, she's almost certainly
13 hypothyroid, and it will be seen on the clinical
14 symptoms, on the physical examination.

15 So I do recommend that this would be done and also
16 to take at least one of the tests for thyroid
17 antibodies. Anti-thyroid peroxidase or possibly also
18 anti-thyroglobulin, it does help, they have fluctuating
19 activities of thyroid glands those people, so you do
20 have to follow up them more closely.

21 To increase -- that it would have increase in
22 tension when patients have a lower TSH or high T4, and
23 in a particular high T3, like I just said, otherwise if
24 there is some doubt about the conditions of the test to
25 re-do the test. I think it has not been done but

1 I think it's worthwhile to re-do the test if there's any
2 hesitation.

3 I think also certain notes can be improved, but
4 maybe mostly the lecture of the notes, but also the
5 notes when a phone call has been given. This is more
6 information, I did not get from the reports but I get
7 from the exchanges we had here, that notes should be
8 improved and maybe it would be interesting to follow
9 even the basic course, I would say, of international
10 non-speciality because at least you get those basic
11 principles of how you do the test. We will get a copy
12 of this.

13 Q. I'm sure people will want a copy of this.

14 A. There was some resistance to photocopying. I asked
15 a little too much.

16 Q. You clearly have one more slide.

17 A. I have a comment on the refusal of Dr Skinner to submit
18 to a practice assessment.

19 MR KARK: Sorry, how could this -- I have let him range far
20 and wide.

21 MR JENKINS: I didn't know this was coming. Take the slide
22 away, if you would.

23 Are you in a position to comment on Dr Skinner's
24 refusal to undergo an assessment?

25 A. I thought that the fact I was an expert, I could comment

1 on facts, but here it's not so?

2 Q. I don't ask you to comment on that aspect of the case.

3 But if you're asked questions about it, certainly you

4 can reply.

5 A. Sure.

6 Q. Those are all the questions I have for you. You will

7 want to take that slide away.

8 A. I will take it away.

9 MR JENKINS: Just take it away. Move it off the screen is

10 what I'm asking you to do. Just click on another slide.

11 That's fine.

12 Thank you very much, would you wait there because

13 you will be asked questions by others.

14 THE CHAIRMAN: Mr Kark?

15 Cross-examination by MR KARK

16 MR KARK: Do you understand, Dr Hertoghe, the duties in this

17 country of giving expert evidence --

18 A. Yes.

19 Q. Either in court --

20 A. I do. I think I do.

21 Q. Good. Would you tell us what they are, please?

22 A. I think it's to give truthful information at every step,

23 and the way I see it is also only to give it when I have

24 evidence to back up what I say.

25 Q. It's to be independent of the side that pays you, you

1 understand that?

2 A. Yes.

3 Q. It's to reflect the research accurately.

4 A. Yes.

5 Q. And it's to indicate if your opinion has changed.

6 How did you come to be giving evidence in this case?

7 A. I've been asked by -- it was a patient group who said

8 there's a doctor who might have problems.

9 Q. Which patient group was that?

10 A. Actually there were two patient groups. I think it's

11 two patient websites. I think it's -- I know the names

12 of the persons who control the websites. I think it's

13 Lynne Minott and Sheila Turner.

14 Q. So what did you do when you got that information from

15 those two patients?

16 A. I said I could eventually come and intervene as an

17 expert, if that was the question.

18 Q. So you contacted Dr Skinner, did you?

19 A. I did not contact Dr Skinner.

20 Q. What did you do?

21 A. I got contacted, I think, by Dr Skinner's assistant to

22 see -- Afshan Ahmed -- if I could intervene as an

23 expert.

24 Q. Had you met Dr Skinner previously?

25 A. The first time I met him was at the World Congress of

1 Anti-aging Medicine in March.

2 Q. March of this year?

3 A. Yes.

4 Q. Was that before you wrote your report?

5 A. Of course that was before. Before it has been recently

6 written, and I got no information before.

7 Q. When you met Dr Skinner what were the circumstances of

8 meeting him?

9 A. As he was a lecturer, we went eating with several

10 lecturers and we talked.

11 Q. And this was an anti-aging hormone --

12 A. Anti-aging medicine world congress, there are 3,000

13 participants and two sessions, so in one of the sessions

14 Dr Skinner spoke in a session on thyroid therapy. There

15 was also, I think, a workshop he did.

16 Q. Have you had direct contact with Dr Skinner in the

17 compiling of your report?

18 A. No. The second time I saw Dr Skinner was here.

19 Q. Right. Can you help us: how did his endocrine survey

20 end up in your report?

21 A. Which endocrine survey?

22 Q. Do you remember, you flashed up a screen earlier that

23 Mr Jenkins said you should take that off?

24 A. No, this is just because I heard here about this

25 endocrine survey, and I think there was also in the

1 papers I received for the report --

2 Q. There was something about that, was there?

3 A. -- an explanation where he was proposed and he was also

4 refused -- he was proposed a practice assessment, and it

5 seemed that he refused afterwards, yes. So this was

6 reconfirmed when I heard it here.

7 Q. Doctor, you've been pretty scathing about endocrine

8 practice in the UK.

9 A. Yes. That is true.

10 Q. You have attacked Professor Weetman.

11 A. Report.

12 Q. Well, you've attacked him actually on the basis, I think

13 you said of his education, his learning, his approach.

14 A. Yes.

15 Q. Is that fair?

16 A. I think it's fair, because it's so evident that

17 something is -- maybe I have been harsh, I tried to be

18 diplomatic because it's not a personal attack.

19 Q. It will be a matter for the Panel how diplomatic you

20 were. But effectively you have suggested that he has

21 misrepresented research to this Panel.

22 A. Yes, I think so, and I reconfirm this.

23 Q. Can we just deal with your qualifications, please.

24 We've got at appendix 1 of Professor Weetman's report,

25 his qualifications. I just want for a moment to look

1 at the man who launched that attack on one of the
2 leading endocrinologists in this country.

3 Are you actually an endocrinologist in Belgium?

4 A. No, I'm not an endocrinologist, I have a specialisation
5 of general practition and specialisation of anti-aging
6 medicine.

7 Q. Let's look at your background, please, in Belgium.

8 We have your CV.

9 THE CHAIRMAN: We are on D12.

10 MR KARK: It is indeed, thank you.

11 You graduated in 1986 in Belgium.

12 A. Yes.

13 Q. That was your medical degree, was it?

14 A. Yes.

15 Q. And then you did a specialised degree, you call it, but
16 it was your three years in general medicine, yes?

17 A. Yes.

18 Q. And then you went on to --

19 A. Two years, at that time, specialisation after the normal
20 education because I was doing a specialisation in
21 psychiatry but stopped it after four months, and then
22 I went to specialisation of general medicine, which is
23 the one I obtained.

24 Q. Right. Then you obtained your certificate, as it's
25 called. For two years you studied anti-aging medical

1 therapeutics, is that right?

2 A. Yes.

3 Q. Which took you up to 2005.

4 A. Yes.

5 Q. Just help us a little bit about anti-aging medicine,
6 would you? It may be self-evident, but what is its
7 purpose?

8 A. Okay. The purpose is to lessen or decrease aging or
9 delay aging, and it's actually the new name for what was
10 considered before as preventive medicine. But
11 anti-aging medicine has something more, it's that it's
12 not only preventive, it's also therapeutic or curative.

13 So you try to lessen the burden of aging. For
14 instance, when you give to a woman female hormones
15 in the post menopause, you do lessen the signs and
16 consequence of aging if you do it safely.

17 Q. Is it something that really could relate to all of us?

18 A. I think this indeed relates to everybody. Everybody
19 ages sooner or later.

20 Q. We're all aging all the time on one view.

21 A. Voila. So that means you do have to have a certain good
22 lifestyle, correct your nutrient deficiencies,
23 et cetera.

24 Q. So after you had done your two-year certificate in
25 anti-aging medicine, what did you go on to do then?

1 A. I'm since several years lecturer, so I'm building up
2 programmes of lectures, seminars.

3 Q. Let's have a look at that. If we look at under the
4 heading "Actual scientific organisation
5 responsibilities", first of all:
6 "[Membership] of the International Board of
7 Scientific Advisers of the American Academy of
8 Anti-aging Medicine.
9 "President ..."
10 Does that mean you were the president?

11 A. Yes.

12 Q. "... of the European Academy of the Quality of Life and
13 Longevity Medicine."
14 A. Yes.

15 Q. What does "Eaquall" mean?
16 A. Equall, European Academy of Quality of Life and
17 Longevity Medicine, the society started the first -- it
18 has another name, but anti-aging medicine congress in
19 Europe. We had a big sponsorship of the European Union,
20 so it had a sort of official recognition.

21 Q. Sorry, European money went into this, do you mean? What
22 do you mean big sponsorship of European --
23 A. It's a venture, so the European Union selects certain
24 programmes or congresses where it gives its official
25 approval, and we also get a budget to be able to run the

1 conference.

2 Q. So European money went into the conference.

3 A. Yes.

4 Q. Excellent.

5 A. And we had the Prime Minister, the previous

6 Prime Minister also as honorary president.

7 Q. Then 2001, you were the supervisor and course lecturer

8 of the post university course of anti-aging medical

9 therapeutics.

10 A. Yes.

11 Q. 2003, you did another course lecturer of the

12 international post university anti-aging medicine

13 specialisation, co-founder.

14 2004, you were the co-founder of the International

15 Hormone Society. I'm going to come back to that because

16 you've told us quite a bit about that. I think you said

17 it was one of the most important endocrine societies

18 in the world.

19 A. It's in membership for the moment the third and growing

20 very fast so we hope to be in the leading position later

21 on.

22 Q. Right. President of the World Society of Anti-aging

23 Medicine, WSAM, in Rome?

24 A. Yes. You'll find a website also.

25 Q. I expect we will.

1 "Member of the directory Board of the European
2 Organisation of Scientific Anti-Aging Medicine.
3 "Founder and member of the editing staff of
4 a Journal of European Anti-Aging Medicine."
5 And president of the International Hormone Society.
6 A. Exactly.
7 Q. So that was the one that you had co-founded, and then
8 you took over the presidency of it, did you?
9 A. Yes.
10 Q. Right. In Belgium is there a similar system to the one
11 in England about specialisation and having to be on
12 a specialist register?
13 A. Yes, there's I think a similar system. Specialisation
14 of anti-aging medicine is not yet recognised.
15 Q. I expect that's right. But I think endocrinology is
16 recognised in Belgium.
17 A. Yes.
18 Q. And there is a specialist register for it, isn't there?
19 A. You know it is the same way as I suppose it is in
20 England, mostly diabetology.
21 Q. You are not on that register, are you, in Belgium?
22 A. No, I am not.
23 Q. And you couldn't practice as an endocrinologist in
24 Belgium, could you?
25 A. I can prescribe hormone therapies without any problem,

1 but I cannot call myself an endocrinologist because
2 I don't have the paper.

3 Q. Right. Would you be entitled to act as a general
4 practitioner in Belgium?

5 A. I could, but I don't have to. As a general practitioner
6 you can generally go in several directions.

7 Q. All right. So far as your lectures are concerned, we
8 see on page 2 that almost straight after you'd finished
9 your degree, you were off lecturing to the Broda Barnes
10 Research Foundation. Dr Broda Barnes is one of the
11 leading proponents of the use of thyroxine in the United
12 States, isn't he?

13 A. Not of thyroxine, of dessicated thyroid.

14 Q. I am sorry, of Armour Thyroid?

15 A. Yes.

16 Q. Then we can see in 92 you --

17 A. It's quite evident that I will speak at that time
18 because I was at that moment already practising with my
19 father, who was an official endocrinologist. So it was,
20 I would say, evident that I would start lecturing and
21 providing information, because I had one of the --
22 I would say, a good teacher in endocrinology.

23 Q. The topics in which you were lecturing, let's have
24 a look, androgen deficiencies, multiple deficiency
25 syndrome.

1 A. Meaning multiple hormone deficiency syndrome.

2 Q. And then in 92, pituitary gland and aging?

3 A. Yes.

4 Q. 96, Broda Barnes again, adult growth hormone therapy.

5 A. Yes.

6 Q. Is that an anti-aging therapy as well, or not?

7 A. What I do is I treat hormone deficiencies and one of the

8 deficiencies with aging -- when you see a person age

9 much more, the big wrinkles, the spine atrophy with the

10 bent back, that is typical for growth hormone deficiency

11 and I'm one of those who treat this deficiency and am

12 quite well-known for this deficiency treatment.

13 Q. Right? 97, the effects of diet, et cetera.

14 You lectured in Abu Dhabi, therapy of andropause, growth

15 hormone therapy. I'm just looking for any of these on

16 treatment of the thyroid.

17 A. Well, you skipped something because in 1996 there was

18 adverse endocrine consequences of radioactive iodine

19 therapy for hyperthyroidism. That's very important.

20 And you probably are skipping out all the seminars

21 I gave, but that's later where there's abundant talking

22 of thyroids.

23 Q. Sorry, can you keep your voice up? What did you just

24 say?

25 A. That you understood, I think, adverse endocrine

1 consequences of radioactive iodine therapy for
2 hyperthyroidism. That's one of the subjects. You
3 should not forget that. There's also a lot of topics
4 that are not on this paper that are related to thyroid.
5 Each time there is a workshop or a hormone therapy,
6 many of those contain an hour or two on thyroid therapy.

7 Q. Coming back, please, to anti-aging and in fact you have
8 a whole list of the seminars that you have --

9 A. Yes.

10 Q. -- dealt with. Page 5, I think. Medical educational
11 seminars on hormone replacement therapies in aging
12 adults.

13 A. Yes.

14 Q. What are the drugs that you use in that field of
15 practice?

16 A. Well, you have thyroid therapy, female hormones.

17 Q. Take it slowly. Would that be thyroxine?

18 A. Thyroxine, Armour Thyroid, T3 and T4 combinations.

19 Q. Right. What else do you use in anti-aging medicine?

20 A. What I do is I treat deficiencies in persons because
21 many people confuse anti-aging medicine with aesthetical
22 medicine, so the word itself is a little unsatisfactory.
23 We're treating patients, so what I use is thyroid
24 therapy in general, cortisol therapy if it's
25 a deficiency in cortisol. I use growth hormone if

1 there's a deficiency in growth hormone.

2 The female hormone therapy, that's oestrogens and
3 progesterone, transdermal estrogeon, which is much less
4 at risk of breast cancer and progesterone.

5 Testosterone, male hormone. That can be transdermal,
6 that is through the skin or injectable.

7 Q. Does anti-aging therapy have the effect of appearing to
8 halt the aging process?

9 A. It does. There are several studies that show that this
10 helps. I have published myself a study that cancer
11 incidence was decreased in those therapies, all the
12 patients who came in 2005 in my practice.

13 Q. And anti-aging medicine an enormous business,
14 particularly in the States, isn't it?

15 A. Yes, the States have a sort of commercial outlook.
16 That's why I think it's so important that Europeans who
17 are, let's say, much more evidence-based and a little
18 more careful -- I think it's better that they get more
19 importance in the movement.

20 Q. All right.

21 A. It has always been my goal.

22 Q. Could I just ask, you are in private practice, are you?

23 A. I am in private practice. I work with six physicians
24 who I supervise.

25 Q. So you don't receive, as it were, a salary from any

1 company?

2 A. No, I never have been receiving a salary from
3 a pharmaceutical company or whatever.

4 Q. You told us quite a bit about the International Hormone
5 Society.

6 A. Yes.

7 Q. You described that as one of the most important
8 endocrine societies in the world?

9 A. I think it's going to be really one of the most
10 important.

11 Q. How many actual endocrinologists do you have?

12 A. I think that we have something around 30, 40
13 endocrinologists.

14 Q. Have you got any from Great Britain?

15 A. No, we don't. We have doctors from Great Britain, but
16 we don't have any endocrinologists. I think it would be
17 quite difficult with the positions of the British
18 Thyroid Association, but it would be a good idea to have
19 a section here of international ...

20 Q. From this book, there are contributions from
21 endocrinologists all over the world, aren't there?
22 Saudi Arabia, Canada, America, United Kingdom,
23 Netherlands, Denmark, I think there's one from Belgium.
24 Are any of these going to be members of your society?

25 A. Well, the goal is that once, let's say, we are quite

1 a big society is to try to approach those people to make
2 a sort of major congress together, and that is true that
3 it's one of the goals in the next two or three years.

4 Q. Where is the society based, as it were?

5 A. Now we have changed location and we're putting it in
6 Brussels.

7 Q. Where was it based?

8 A. It was based in Kansas City.

9 Q. Did you go over to Kansas regularly?

10 A. No.

11 Q. So how did it work?

12 A. Well, it didn't really work in the beginning and one of
13 the reasons I went out to practice is to really
14 reinstall and make a strong society. That's why now
15 there are references, consensuses are published, and
16 I turn around to get the signatures on the therapies'
17 consensuses.

18 Q. Who was the president before you?

19 A. The president before was a person named Dave Johnson,
20 who is not a doctor.

21 Q. He wasn't a doctor? What was he then, was he
22 a businessman?

23 A. No, he's not a businessman, he works as a computer
24 specialist, I think, and in America the system is
25 different. In America it seems to be better to have

1 a sort of neutral person than a doctor at the head of
2 a society. That is what I was told. But I didn't find
3 it a good idea and thought it was a better idea to -- it
4 was a transitory post for him.

5 Q. So he was a computer specialist?

6 A. Yes.

7 Q. Were there any doctors involved in the hierarchy apart
8 from yourself?

9 A. In the what?

10 Q. Sorry, at the top of the foundation.

11 A. Do you mean in the past or now?

12 Q. When you started the thing.

13 A. When I started it was with Dr Jackie Springer, who was
14 co-founder of the society.

15 Q. Right. And is she still part of the structure of the
16 society?

17 A. Not any more because we "re-found" the foundation in
18 Brussels.

19 Q. Sorry, is she still part of it or not?

20 A. No, not in the directory board or not in the foundation.

21 Q. Why not?

22 A. Because she didn't work, she didn't do anything for it,
23 so I think it was important to get only people we can
24 count on and are active.

25 Q. How did you come to found it with her if she was your

1 co-founder? Were there just two of you?

2 A. She is an endocrinologist. She was very active --

3 I thought she was going to be very active, but except of

4 the foundation of the society she didn't do really very

5 much, so I thought it was not a good idea to keep it

6 located where -- because she lived in Kansas, where

7 people don't do a lot.

8 Q. People don't do a lot in Kansas? All right.

9 A. Yes, but not Dr Jackie Springer.

10 Q. When did you found this society, when was that?

11 A. I have to go back to my CV. Some years ago. But we

12 only really started to open up for membership recently,

13 and it goes very quickly, so in 2004.

14 Q. Wasn't one of the problems that in November of 2004 she

15 had her licence to practise removed from her?

16 A. It is also one of the reasons but she had her licence

17 suspended for prescribing Armour Thyroid and prostamol.

18 Q. She had her licence suspended, I suggest, because she

19 was prescribing growth hormones without performing

20 adequate examinations of her patients, is that right?

21 A. Yes, and I don't know if it was true, but that was

22 unacceptable.

23 Q. And she was running a weight loss clinic at a place

24 called Overland Park in Kansas City, which got closed

25 down.

1 A. That I didn't know actually about the weight loss
2 clinic, that it closed down.

3 Q. You didn't know that?

4 A. Not about that, no.

5 Q. Really? She was charged with illegally importing
6 a banned drug called Fenfluramine, it's the weight loss
7 drug?

8 A. I heard about that. That is also unacceptable, yes.

9 Q. You didn't mention that earlier as one of the reasons
10 that she wasn't any longer --

11 A. I didn't think about that. What I had in mind is that
12 she had her licence suspended and that was not
13 acceptable also. But the reason was not that, because
14 I think that some of the arguments that made her licence
15 suspended are not correct. It's a sort of trial like
16 we have here. So I really think she was not correct.

17 I have no problems of keeping a person in the
18 society. I even asked her to be a founder of the
19 society, even if she lost her licence, because I work
20 for truth. I think that's the same thing that you're
21 striving for. But the main reason not to take her up
22 again -- she didn't want anyway -- is that she didn't
23 work.

24 Q. Who else is on the board of the International Hormone
25 Society?

1 A. Now we have a Vice President, Ron Rothenberg, who is an
2 assistant --

3 Q. Sorry, Ron Rothenberg? Where is he based?

4 A. In San Diego. He's normally assistant professor in,
5 I think, preventive medicine.

6 Q. Is he an endocrinologist?

7 A. No, I don't think he is. Don't forget that this society
8 is not a society only for endocrinologists, but open to
9 all medical specialities. What we claim is that there's
10 adequate hormone therapy that can be done inside of,
11 I would say, other medical specialities. That's the
12 critical point.

13 Q. Dr Hertoghe, the reality is you've never trained as an
14 endocrinologist and you have nobody at the top of your
15 society which you are --

16 A. The what?

17 Q. You have nobody at the top of this society. You are
18 putting this society forward to this Panel as one of the
19 leading -- let me remind you of your words: one of the
20 leading endocrine societies in the world.

21 A. It's the leading society of the other medical
22 specialties. I said this very clearly, I don't think
23 I have withheld any information, and it really is going
24 quickly.

25 Q. Would it surprise you that Mr Lynn and Professor Weetman

1 have never heard of your society?

2 A. It doesn't surprise me. They look in another direction.

3 Q. They're looking in the other direction? Contrary to

4 what you --

5 A. They have never heard, neither, of all this evidence

6 that they stated that didn't exist.

7 Q. We're going to look at that and look at how accurately

8 you portrayed that.

9 A. Good.

10 Q. You seem to think that training of endocrinologists in

11 this country is a year or a year and a half. Is that

12 really your view?

13 A. It's the view I explained that was internationally like

14 this and most of it is in internal medicine. In France

15 I know it's three years of endocrinology, but the

16 problem is still mainly with diabetes patients.

17 Q. I accept that endocrinology and diabetes are very

18 closely linked, aren't they?

19 A. Yes.

20 Q. And I'm going to suggest that the training is a minimum

21 of three years and it normally requires a period of

22 research, leading to a masters degree?

23 A. Yes.

24 Q. Can we just look, please, at your uses of the drug

25 thyroxine. Do you use thyroxine to treat obesity?

1 A. No, never. I treat thyroid deficiency and this is also
2 something I teach to all my students, only to treat
3 a hormone deficiency, not to treat a symptom.
4 Don't give a hormone for a symptom.

5 Q. Page 31 of the printout that we've got of your report.
6 It's not actually in the report, it's in the slides.

7 THE CHAIRMAN: Mr Kark, can you give us the reference?

8 MR KARK: D14. Thyroid and obesity, weight loss and T3
9 treatment.

10 A. I don't have the right pages.

11 Q. Sorry, page 31. Do you see thyroid and obesity?

12 A. Yes.

13 Q. Weight loss and T3 treatment.

14 "Greater weight loss if Tri-iodothyronine is given."
15 So that would be T3?

16 A. Yes.

17 Q. Do you use that in treatment of obesity?

18 A. No. It just shows that when you treat a thyroid
19 deficiency you can have many effects, the T3 that you
20 add with the treatment can help to decrease obesity,
21 et cetera. But it's just one of the side consequences,
22 I would say, of treating the main problem, which is the
23 thyroid deficiency. If you see very well the
24 references, it's a reference I have found actually
25 in The Thyroid, the big book you have there.

1 Q. You didn't, actually, because it's not in this one, it's
2 the last one.

3 A. It's the recent edition you have.

4 Q. I think the one you're using may be something like
5 10 years out of date. This one doesn't make reference
6 to it, does it?

7 A. But that doesn't mean that the study is not good.
8 That just means that you have here an idea of what
9 importance it can have, thyroid hormones, because it can
10 help on different levels. You never can treat one
11 symptom or one at a time.

12 Q. Depression.

13 A. Which page?

14 Q. Page 88, I think, is where you mention this topic.

15 A. Yes.

16 Q. There are a number of reports there that deal with
17 the use of thyroid treatment for bipolar effective
18 disorder and depressive disorders.

19 A. Yes.

20 Q. Just help us about that. I want to try and understand
21 what you're saying. Are you saying that clinical
22 depression can be treated with T4 or T3?

23 A. No.

24 Q. Or are you saying that people are depressed because
25 they're hypothyroid, and therefore, if you treat the

1 hypothyroidism, that will cure the depression?

2 A. Hypothyroidism can be associated with depression. Not
3 every depression has hypothyroidism. Depression can be
4 caused by other endocrine deficiencies or by stress
5 situations.

6 This is even totally different. I don't even know
7 if the patients were normal thyroid or hypo. It's just
8 to prove that certain patients who were probably
9 euthyroid, very probably euthyroid, receives by --
10 this is therapy that I do not recommend. This is
11 a therapy that has been done, and I just cite the
12 references to show that evidence by the experts you have
13 has been omitted, and that this is one of the evidence
14 that shows that people with normal blood tests are
15 treated with thyroid hormones, it's very different from
16 what you have suggested.

17 Q. If you have somebody who is clinically euthyroid but
18 depressed, let's say depressed and overweight and
19 lethargic --

20 A. If the patient has a lot of symptoms of deficiencies,
21 and there's history suggestive and the blood tests are
22 like you say in a near or in the reference range --

23 Q. Within the reference range.

24 A. -- where there's pathology, that part of the reference
25 range that has pathology, I think it's a therapeutic

1 test -- a trial, a therapeutic trial, is justified. But
2 if the person only has depression I never will give
3 thyroid hormones. I need more data, that's not enough.

4 Q. Let me ask the question again. Let's take an example.
5 We have got depression, overweight, and lethargy.
6 Feeling tired all the time.

7 A. I need a clinical examination. If I don't find any
8 signs that are suggestive of hypothyroidism, they're
9 very typical, you have dry skin at the elbow, you can
10 have swollen eyelids, the rough hair. So there are many
11 signs. You can have slow Achilles reflexes. This is
12 a sign that is very typical to low thyroid function
13 only. You need to have much more data. I wouldn't
14 treat that, that's not enough for me.

15 Q. One of the problems is that a number of these symptoms
16 that you're mentioning are also symptoms that could be
17 the result of many, many other problems.

18 A. Not slow Achilles reflexes, no, that is very typical,
19 that is standard known. The slow Achilles reflects this
20 is typical for low thyroid function.

21 Q. Are you saying that's diagnostic of hypothyroidism?

22 A. It's diagnostic, not on its own but that's an important
23 symptom, yes. It's an important physical sign.

24 There are things that are very typical. You cannot
25 have, I would say, cold extremities or fully keratosis.

1 If the vitamin A is normal, you still have full
2 keratosis, it is very typical for low thyroid function.
3 They are very typical signs.

4 Q. Let me just finish off the list that I'm going through.
5 Anti-aging you've dealt with already. Certainly
6 something that thyroxine would help with.

7 A. If the person is low thyroid, otherwise it would create
8 a hypothyroid situation, which would increase aging, so
9 it's only if there's a deficiency.

10 Q. It follows from what you have said about the attitude of
11 endocrinologists in this country that your belief would
12 seem to be that the use of thyroxine should be made much
13 more widely available to people who are at the moment
14 regarded as chemically euthyroid.

15 A. But hypothyroid symptoms and blood tests in the part of
16 the reference range that may have link to pathology,
17 yes.

18 Q. We'll look at that but we've just been looking at
19 patient who was, as I think you said yourself, certainly
20 they were well within the reference ranges, but
21 nevertheless --

22 A. Patient A to D, you mean?

23 Q. I think it was C actually. But in any event, we will go
24 through the patients. In any event, you thought a trial
25 of thyroxine --

1 A. And certainly that patient she had severe symptoms. You
2 really can have cellular low thyroid function in people
3 who may have normal blood tests, but most of those do
4 have at least borderline low thyroid hormones and
5 borderline high TSH.

6 Q. Can we take a person who is within the reference range,
7 and for the moment I'll accept a reference range of TSH
8 below 2.5.

9 A. Okay.

10 Q. I know you are, I think, pushing to go even lower.

11 A. Yes.

12 Q. But the problems of the human condition are many and
13 varied, aren't they? We can be too fat, too thin,
14 we can all feel listless, lethargic and tired. Some
15 people have transient depression and some have
16 depression as an illness. Quite a lot of us find it
17 difficult to get out of bed in the normal.

18 A. And you find that normal?

19 Q. Many of us suffer from back pain.

20 A. Yes.

21 Q. And we all, sadly, get old.

22 A. Yes.

23 Q. Can we all do with a touch of thyroxine?

24 A. If you're hypothyroid I think you will benefit from the
25 treatment. If these are your symptoms, maybe we should

1 examine.

2 I mean, I don't want to make a personal question,
3 but I think we have certain tools, we live at a certain
4 time of our -- a time where we have tools where we can
5 decrease some of that aging.

6 Q. We could decrease some of that aging?

7 A. Slow it down. That doesn't mean we are magicians and
8 that we can do everything, but we can lessen some of the
9 burden of aging.

10 Q. Are you content to use thyroxine for a host of problems
11 of the human condition, which have nothing whatever to
12 do with a thyroid gland being sick?

13 A. Yes. I wouldn't do thyroxine for things that have
14 nothing to do with thyroid hormone. You do really have
15 to have confirmation from several aspects. If you only
16 have complaints and you have physical signs that are not
17 conclusive, I wouldn't treat with thyroid hormones.

18 Q. But the list of what I described as problems of the
19 human condition that I had just given you, you would
20 regard as signs of hypothyroidism?

21 A. There are so many endocrine deficiencies that I wouldn't
22 directly say, but what I showed you, I think you have
23 seen those slides, is that all tissues age and the body
24 stays the same size as it was at a young age when most
25 of us had a good hormone level. So if the hormone

1 levels decrease -- and I showed you the receptors -- the
2 cells get slowly more and more hypothyroid.

3 The big difference between the concept that you seem
4 to, let's say, defend is that only a minority of people
5 can have hormone deficiencies, and the position of
6 doctors that work in anti-aging medicine are in, let's
7 say, biochemical euthyroid, clinical hypothyroid
8 patients, is that there is much more deficiencies.
9 There are intimate degrees of deficiencies.

10 Q. Right. Just before we break for lunch, can you help
11 us: where would you like the TSH level to be lowered to?

12 A. I would like TSH levels to be between 0.5 and 2 on the
13 average.

14 Q. So if you lower it, you would have a host of people who
15 would have no signs or symptoms of hypothyroidism --

16 A. Those I will not treat.

17 Q. Hold on a second. If you're outside your TSH reference
18 range, so you're above your reference range of 2, the
19 argument would be that they would be subclinically
20 hypothyroid, wouldn't they?

21 A. No, subclinically hypothyroid is a TSH above 4, 5, or
22 5.5, depending on the reference range. So you mean --

23 Q. But why? If you're bringing your reference range down
24 to --

25 A. Well, that's the definition of the -- oh, I see what you

1 mean.

2 Q. Dr Hertoghe, you want to bring the reference range down
3 to 2, yes? So anyone who is over 2 is abnormal, is that
4 right?

5 A. I understand what you mean. Again, it's written in
6 the consensus, it concerns clinically hypothyroid
7 patients. If you have a clinically euthyroid patient,
8 and biochemical euthyroid, I wouldn't treat that
9 patient, it's very clear.

10 Q. No, I am asking you -- I will try and get this in before
11 lunch -- if you have somebody who's at 2.4, your
12 reference range is 2.

13 A. Yes.

14 Q. They have no clinical signs of hypothyroidism --

15 A. I wouldn't treat the patient.

16 Q. Why not?

17 A. Because he has no clinical signs, so that means in the
18 cells it's okay.

19 Q. So whatever their TSH is, you wouldn't treat them unless
20 you see signs, is that right?

21 A. I'm almost sure that if the TSH is above 4, or 4/5, you
22 certainly find clinical signs. I haven't seen a patient
23 at 4, personally not, maybe endocrinologists here in
24 this country have seen that, but I haven't seen
25 a patient at 4 not having clinical signs of

1 hypothyroidism on physical examination. But I still
2 would like a little safety zone that some people may do
3 well at a TSH of 3 or 3.5, I would let this this safety
4 zone. I wouldn't treat the patient.

5 Q. Help us with this: what proportion of the population,
6 do you have any idea, would have a TSH of above 2?

7 A. The average mean of a population in general is around
8 1.5. So 50 per cent are above 1.5, and I don't know
9 exactly the population that is above 2 or 2.5. It
10 probably is something like 30 per cent or 25 per cent or
11 35 per cent. I don't know exactly.

12 Q. So just pausing there for a moment. If the 12 people
13 sitting round these tables, I'm not, with respect,
14 including the patients, four of us probably would be
15 over your range at which you would treat --

16 A. Yes. And I can give you a very good comparison to
17 understand that. How many people of us will not need
18 glasses to see better to read? Do you know how much?

19 Q. Tell us.

20 A. Everybody after age 50 will need glasses to read.
21 I don't need them yet, but I probably will.

22 Q. So we're all going to need thyroxine at some stage, will
23 we?

24 A. If we age and live long enough, it is possible, but
25 still there can be an individual that may resist better,

1 but the scientific studies show that. Everything ages
2 all the way.

3 Q. We're aging perhaps if we don't get some lunch, so shall
4 we pause there for the moment.

5 A. Sure. But you understand the comparison with people who
6 have difficulties to see, if we would put reference
7 ranges and only 2.5 per cent of the people who are over
8 50 may get glasses because they are definitely almost
9 blind, I would say, we need to treat and to give glasses
10 to people who also have a more moderate deficiency.

11 THE CHAIRMAN: Thank you, we will break for lunch
12 until 1.50. Thank you.

13 (1.00 pm)

14 (Lunch Adjournment)

15 (1.50 pm)

16 MR KARK: I want to turn, please, to some of your criticisms
17 of Professor Weetman, and obviously the Panel will have
18 to make up their minds about that. I expect you would
19 accept that his CV, which the Panel have at appendix 1
20 of his report, was impressive? (Handed).

21 Would you like to have a look through that.

22 I presume you've seen it before?

23 A. No, I didn't. Is it here at the beginning?

24 Q. His CV is attached as appendix 1 to his report. Did you
25 not have it?

1 A. I have it now.

2 Q. Did you not have it before? So when you commented on
3 his education, his training, you hadn't read his CV;
4 is that right?

5 A. I haven't read his CV, what I was commenting is on
6 a part of the training, the practical training with
7 patients' treatment of hypothyroidism.

8 Q. You have a look now, would you, at his CV?

9 A. Yes.

10 Q. When we start in 1974, when he qualified with first
11 class honours, and just leaf through it, and tell us
12 please, if you would, where it is, in your view,
13 lacking.

14 A. He has been accredited in general medicine,
15 endocrinology and diabetes mellitus, 1987.

16 I see no place where there's specific training in
17 treatment of patients. I suppose it is -- I don't know
18 if it's diabetes. There's no indication. There's only
19 positions in hospitals and research centres. Neurology
20 here. General medicine, previous appointments. No,
21 I cannot see any -- maybe you can see some.

22 Q. You see the difficulty, I suppose, is that we don't know
23 of his previous appointments. We see that started off
24 as a house physician, then senior house officer, then
25 registrar in general medicine, then Medical Research

1 Council Training Fellow, honorary registrar department
2 of medicine in Cardiff, senior registrar, lecturer of
3 medicine.

4 Over the page, top of page 4, Medical Research
5 Council, travelling fellow. Wellcome senior research
6 fellow in clinical science, honorary senior registrar at
7 Hammersmith Hospital, senior lecturer and honorary
8 consultant physician.

9 A. Where do you see that he specialised in thyroidology
10 in that part?

11 Q. I think we can take it that he did. If we to the
12 membership of editorial boards, Clinical Endocrinology,
13 thyroid, 1993. Editor Clinical Endocrinology.

14 A. But that's mostly research papers. It's not practice
15 with patients. Or do you see other information?

16 Q. Presumably you read the transcript of his evidence; did
17 you?

18 A. I read of the fourth day, I read about half or
19 two-thirds of his disposition. But I based my
20 impression on his report where he talked about clinical
21 symptoms of hypothyroidism without knowing them, and --

22 Q. Oh, I see.

23 A. And with embarrassing comments also.

24 Q. Hold on, let's get that right. You thought that
25 Professor Weetman's evidence was embarrassing, did you?

1 Can you with just look --

2 A. In the sense that it didn't seem to be correct
3 information.

4 Q. Right.

5 A. But it's not for me to put an opinion on why it is or
6 why it may be so.

7 Q. Well, to repeat an expression we heard earlier in
8 the case, I think you just have. Let's have a look at
9 page 6 of his CV just to look at his internationally
10 invited lectures. From 1991, I think it is, it is
11 almost all specialising in endocrinology and diseases,
12 problems with the thyroid.

13 A. But that does not mean he has clinical experience, that
14 means that he does research or he does lectures.

15 Q. Okay. Let's look at your specific criticism and I think
16 at paragraph 12 of your report you say this:

17 "Dr Weetman illustrates his point of view that 'none
18 of the symptoms or signs just listed' would be
19 'sufficiently sensitive or specific for the diagnosis of
20 hypothyroidism ..."

21 A. Yes.

22 Q. "... even [I think it should be] when combined
23 together'."

24 THE CHAIRMAN: Sorry, Mr Kark, guide me to the reference.

25 MR KARK: Paragraph 12 of Dr Hertoghe's report.

1 THE CHAIRMAN: Is that D13?

2 MR KARK: Yes.

3 A. It should be page 5 of the report.

4 Q. Page 5, paragraph 12.

5 This is under the issue of the symptoms and signs of

6 hypothyroidism. Can I just ask you this: was it your

7 understanding that what Professor Weetman was saying was

8 that all that you do is you look at the laboratory, the

9 blood laboratory tests for the patient, and then decide

10 whether they're hypothyroid or not, is that your

11 understanding of his evidence?

12 A. So if I well understood what you said, is if it was my

13 understanding that Professor Weetman would base mainly

14 diagnosis --

15 Q. No, not mainly. Was it your understanding that

16 Professor Weetman was saying, you look at the lab test

17 and you decide if they're hypothyroid or not?

18 A. Yes, that was my understanding. He didn't find the

19 clinical symptoms sufficiently interesting, I would say.

20 Q. No, not sufficiently interesting, sufficiently for

21 a diagnosis of hypothyroidism. That's what he was

22 saying.

23 A. I would share his view if he would say that they're not

24 sufficient on their own. It depends a little bit on the

25 severity and where also the blood tests are in the lab.

1 Q. Can I just ask you to pause for a moment because there
2 may be a language issue, and I don't mean that in any
3 rude sense. If you say that something is diagnostic of
4 a particular disease, what do you mean by that?

5 A. When you say this is on its own enough for a diagnostic
6 reasons, that means that based on this information you
7 can make the diagnosis of the disease, and treat the
8 disease.

9 Q. Right, okay, so we do have the same meaning of
10 "diagnostic of".

11 Let's look at this criticism of his evidence or his
12 report. You deal in your paragraph 12 with what
13 Dr Weetman said about using symptoms and signs of
14 hypothyroidism and you repeat this:

15 "The authors of the study conclude: 'Evaluation of
16 symptoms and signs of hypothyroidism with a new score
17 in addition to thyroid function testing is very useful
18 for the individual assessment of thyroid failure and the
19 monitoring of treatment', which contradicts Dr Weetman's
20 analysis of the study."

21 Yes?

22 A. Because it means that you do have to take into account
23 those clinical symptoms, which he seemed, in my way of
24 interpreting his report, not to be important to add to
25 the diagnosis, and it seems more in accordance with what

1 he later writes.

2 Q. I think you may return to this topic at page 15 in your
3 report, paragraph 38.

4 You write this:

5 "The study Dr Weetman writes about [and that's the
6 same study, I think, appendix 4] can be interpreted
7 differently.

8 "1. It does not show that symptoms are inadequate
9 for the diagnosis of thyroid function."

10 Let's just pause there for a moment. Are you saying
11 that the symptoms are adequate for the diagnosis of
12 thyroid function?

13 A. I'm saying they're symptoms -- the symptoms are adequate
14 as one part of the diagnosis, maybe I should have
15 precised that.

16 Q. Yes, I think that's important, isn't it.

17 A. It's an important difference.

18 Q. You are not saying, are you, or perhaps you are, that
19 symptoms themselves can be diagnostic of hypothyroidism?

20 A. Not on their own.

21 Q. Right:

22 "The authors of the study rightly write that
23 'Evaluation of symptoms and signs of hypothyroidism with
24 a new score in addition to thyroid function testing ..."

25 That may be important:

1 "... in addition to thyroid" --

2 A. Yes, that is fundamental I think.

3 Q. "... is very useful for the individual assessment of

4 thyroid failure and the monitoring of treat."

5 Yes?

6 A. Yes.

7 Q. You were very critical, were you not, about

8 Professor Weetman's use of this report?

9 A. Of Professor Weetman's report?

10 Q. Yes.

11 A. Yes.

12 Q. You said you didn't understand why he said what he did.

13 A. Why he said it differently.

14 Q. Yes.

15 A. Because it's not in the conclusion that -- what he said

16 was:

17 "None of the systems or signs just listed would be

18 sufficiently sensitive or specific for diagnosing

19 hypothyroidism and this reinforced what he's talking

20 about.

21 THE CHAIRMAN: Could you bring the microphone just more in

22 front of you? That might help. Thank you.

23 A. I will repeat, maybe. So what he says, he illustrates

24 his point of view that:

25 "None or the symptoms are signs just listed to be

1 sufficiently sensitive or specific for diagnosing
2 hypothyroidism even with combined together."

3 What I understood is that he meant that symptoms
4 were actually not that important and that it's not
5 necessarily a contributing part of the diagnosis.

6 MR KARK: I don't think he said either of those things
7 actually. You see, your criticism before this Panel,
8 you made some comment, I'm rather cautious about my
9 note, my recollection is you didn't understand why he
10 failed --

11 A. Why he changed the meaning of the --

12 Q. Why he changed the meaning.

13 A. Yes.

14 Q. So you're suggesting that Professor Weetman has changed
15 the meaning?

16 A. Yes.

17 Q. Right.

18 A. You read that in the context, that is really the
19 impression I have.

20 Q. What Professor Weetman said to this Panel was this, and
21 he's dealing with his report, I asked him:

22 "At the bottom of page 5 you're dealing with the
23 same area, you say, 'In addition none of the signs and
24 symptoms just listed is sufficiently sensitive or
25 specific for a diagnosis of hypothyroidism even'" --

1 A. Sorry, I do not follow you. Where exactly is it?

2 Q. I'm reading from the transcript, which you don't have,
3 so if you could listen.

4 THE CHAIRMAN: It is on page 5, the last paragraph, in about
5 the middle if that would help.

6 MR KARK: That is right.

7 All right?

8 "In addition, none of the symptoms or signs just
9 listed is sufficiently sensitive or specific for
10 a diagnosis of hypothyroidism even when combined
11 together."

12 Are you saying he's wrong about that?

13 A. This is when you read this sentence, it could be
14 interpreted differently.

15 Q. I see.

16 A. What I read here, "In addition none of the symptoms or
17 signs [so none, not one of them] just listed is
18 sufficiently sensitive or specific for the diagnosis of
19 hypothyroidism".

20 You could interpret it alone that the symptoms do
21 not contribute to diagnosis together with the lab test
22 or you can interpret anyway you don't have to take into
23 account the signs and symptoms.

24 Q. And he also --

25 A. So the sentence could be interpreted differently than

1 the way I did interpret it.

2 Q. Are you --

3 A. But the context I would say would rather point in
4 the direction in the way I would interpret it, that he
5 in a certain sense rejects clinical symptoms as a part
6 of the diagnosis of hypothyroidism.

7 Q. You were critical also, if we go to page 6 of
8 Professor Weetman's report, of the last line:

9 "As the authors conclude, even this detailed scoring
10 system could not be used to establish a diagnosis that
11 the results are also important in quantifying how common
12 the clinical problem of suggestive hypothyroid features
13 in healthy individuals actually is."

14 A. Well, I think it's a different interpretation. It's
15 interpreting a study that does not really say that.

16 Q. Right.

17 A. Because you can interpret it that on the contrary, that
18 you do have some hypothyroidism in patients who are
19 obviously in the reference range, so it depends where
20 the point of view is.

21 Q. What you have quoted from the report, which we have at
22 your paragraph 12, beginning with the words "the authors
23 of the study conclude", is from the abstract of the
24 report, isn't it?

25 A. Yes.

1 Q. Did you bother to read right through the report before
2 you launched this attack on Professor Weetman?

3 A. In this case I based myself on the abstract because
4 I found that the abstract was sufficiently conclusive in
5 this conclusion.

6 Q. Would the answer to the question then be: no, I did not
7 read the full report before I launched this attack upon
8 Professor Weetman's conclusion?

9 A. I read the full report.

10 Q. Oh, you did?

11 A. I did not receive the article.

12 Q. I'm sorry, did you read the article? It's Zulewski,
13 isn't it?

14 A. I didn't receive that article.

15 Q. Did you ask for it through your solicitors, because they
16 I think had the references and you could have found this
17 quite easily.

18 A. Yes. I searched because there was -- got the papers
19 of course, quite late so I had to do the report in,
20 I would say, quite short time in an overabundant
21 programme.

22 Q. Sorry, you had to the report in quite a short time, and
23 what?

24 A. Well, so I based myself on the abstract, and on the
25 abstract I think the things for me are quite clear.

1 Q. Doctor, I'll just ask you this: did you think before you
2 decided to include in your report and indeed in your
3 evidence before the Panel, where you criticise as
4 effectively misleading one of the senior
5 endocrinologists in the country, did you think it would
6 be sensible to read through the report that he was
7 quoting?

8 A. I think if I had the article it would have been much
9 better. I'm sure about that.

10 Q. Good. You can have it now. Let me pass it out.
11 (Handed).

12 I have a copy for the Panel as well.

13 THE CHAIRMAN: Thank you.

14 This will be C9 then.

15 MR KARK: Thank you.

16 This is very dense material and I am not going to
17 trouble this Panel to read through any more despite what
18 I've just said to you, Dr Hertoghe. But could I suggest
19 that you, first of all, look at the front page. We can
20 see that right on the front page we have a heading
21 "Abstract". What you have done, I think you agree, is
22 you've taken the last few lines of the abstract and put
23 it into your report.

24 A. I agree.

25 Q. And to try and give a thumbnail picture of what they

1 were trying to do here, is they were trying to create
2 a scoring system, really, for the classical signs of
3 hypothyroidism. Would that be fair?

4 A. And they found less symptoms than before.

5 Q. They found what?

6 A. Less symptoms than previous studies two years ago.

7 Q. All right. Could I just ask you, because I don't want
8 to spend very much longer on this topic, to turn to
9 page 776 of the report.

10 A. Third paragraph?

11 Q. Absolutely. Third paragraph, you got there before me.
12 Would you like to read that?

13 A. Yes, I would like to:

14 "Faced with the variability of the clinical findings
15 in overt and subclinical hypothyroidism, we cannot
16 recommend the use of the new clinical score for
17 the purpose of establishing the diagnosis of
18 hypothyroidism."

19 This when I read it is meant that it's solely --
20 it's not enough on its own.

21 Q. Yes?

22 A. "Routine thyroid function testing is the best and most
23 reliable way to identify patients with thyroid failure."

24 Q. Would you accept having read that, that what
25 Professor Weetman was doing, rather than just quoting

1 the abstract, was he was quoting directly from the body
2 of the report?

3 A. Yes.

4 Q. Do you withdraw your criticism?

5 A. Actually that all depends on how to interpret the words
6 of Dr Weetman. It all turns around this: if he meant
7 that none of the symptoms or signs just listed would be
8 sufficiently sensitive or specific on their own for the
9 diagnosis of hypothyroidism, even when combined
10 together, if he had put that, I would say then he is
11 right in quoting the article, except that he did not
12 take into account also the conclusion.

13 Q. Well --

14 A. So he has omitted the conclusion, but took part of the
15 text that was adapted to his report in the sense he
16 wanted to orient it.

17 Q. Well, Dr Hertoghe --

18 A. It's a little difficult for me to -- what I was asked is
19 to analyse how reliable was this report.

20 Q. Yes.

21 A. And I find that there is a difficulty in interpretation
22 at least.

23 Q. Can we take it, and it may be because you simply had to
24 do your report quickly, but can we take it that where
25 Professor Weetman has made his various references,

1 comments about the references, you haven't read them
2 all?

3 A. I have read the abstract, certainly.

4 Q. You've read the abstract, but you haven't read all the
5 reports.

6 A. But I haven't read all the articles, certainly not.

7 Q. So whenever we see in your report a criticism of
8 Professor Weetman's report relating to research, we
9 ought to be aware that you haven't actually read the
10 research, you have read the abstract.

11 A. I have read part of the research, I have read the
12 articles of Dr Weetman, I have read various articles,
13 but it's true that when you don't have so much time
14 a way of doing it is of limiting it to the abstract, but
15 that doesn't mean that the information there is not
16 accurate. It could mean that in certain points the
17 information would have to be specified, like here. It's
18 double sense of what he -- that's the impression I have,
19 personally, that is double sense, it's oriented to give
20 another impression than what the article really says.

21 Q. When we started, doctor, this is exactly why I asked you
22 the question, I asked you whether you understood
23 the expression "diagnostic of", in other words you can
24 draw a diagnosis from particular features. That's
25 exactly the expression Professor Weetman used,

1 I suggest, "the diagnosis of"?

2 A. So you mean it's sensitive enough on its own to make the
3 diagnosis of hypothyroidism?

4 Q. It's not, is it?

5 A. It's not in the report of Dr Weetman, that's not what
6 I read. For me ...

7 Q. Let me move on. TSH levels. You have told us, and I'm
8 sure you're right, that TSH levels fluctuate during the
9 day. Yes?

10 A. Yes.

11 Q. Is it also fair to say that they fluctuate in a very
12 minor way compared to the fluctuations that occur at
13 night?

14 A. Yes, certainly.

15 Q. Right.

16 A. There's less fluctuations during the day.

17 Q. Is it still accepted to be the safest and most accurate
18 test of thyroid function that there is?

19 A. The most I would say it's -- you have to combine testing
20 and --

21 Q. T4 and T3 as well?

22 A. On its own it's not sufficient as well. I wouldn't say
23 it's sufficient on its own.

24 Q. Do you accept that it is a very important test --

25 A. Yes.

1 Q. -- of the thyroid function?

2 A. Yes. Absolutely.

3 Q. You're not saying that because you do a TSH test during

4 the day you should ignore it?

5 A. No, absolutely not.

6 Q. I don't think you said this but I just want to make

7 clear. You're not suggesting that TSH testing should be

8 abandoned in favour of clinical signs, are you?

9 A. No. I'm not suggesting that.

10 Q. And there's not a single piece of research anywhere,

11 I expect, that you've ever read that would support that

12 suggestion?

13 A. What suggestion?

14 Q. I would suggest there's no piece of research anywhere

15 that would suggest you should abandon TSH testing in

16 favour simply of clinical signs?

17 A. No. Well, like you talked yourself, Dr Broda Barnes, he

18 did write things in that sense, but I don't suggest that

19 you should abandon TSH.

20 Q. No, Dr Broda Barnes is not just at one end of the field

21 he's almost out of the field completely, isn't he?

22 A. And it's also a long time ago.

23 Q. All right.

24 A. But that doesn't mean that he doesn't given valuable

25 information.

1 Q. But no one seriously challenges the importance of doing
2 a blood test, do they?

3 A. No. I don't think so. Nobody here anyway.

4 Q. In not just ideal circumstances, but it would be
5 preferable, wouldn't it, always to do a blood test
6 before you do treatment so you know what your baseline
7 is; is that fair?

8 A. Yes.

9 Q. And that would simply mean saying to your patient: look,
10 I need to take a blood test before we start anything at
11 all, go away, come back next week and we'll see where
12 we are?

13 A. Yes.

14 Q. Once someone is on thyroxine, to whatever extent, their
15 TSH is going to be suppressed, isn't it?

16 A. Going to be decreased in level, yes. Suppressed means
17 in a certain sense totally --

18 Q. I don't mean it in that way, it's going to be decreased.

19 A. Decreased.

20 Q. If they are on a lot of thyroxine, I was going to say
21 too much, but I'll say a lot of thyroxine, their TSH
22 level is likely to be suppressed so that it becomes
23 unrecordable.

24 A. Yes.

25 Q. Now, I didn't say too much because there are certain

1 circumstances where that's exactly what you want to do.
2 For instance, treating thyroid cancer.

3 A. Yes.

4 Q. You would want to put so much T4 into the body that the
5 TSH is going to be completely suppressed, the thyroid's
6 going to stop working, and it's going to shrivel up.

7 A. And it has the anti-cancer effect.

8 Q. All right.

9 A. And the studies show that generally it's well tolerated,
10 this sort of treatment.

11 Q. But in normal circumstances when treating somebody for
12 hypothyroidism, you would not want to see a TSH which is
13 suppressed in that way, would you?

14 A. It's not my goal. My goal is the patient feels good,
15 looks good, and has thyroid test within the reference
16 range although more optimal. But you do have a fraction
17 of the patients who apparently have a degree not only of
18 primary hypothyroidism, but also of central
19 hypothyroidism. That means they cannot secrete easily
20 TSH as much as other people like elderly people, and it
21 may be that a fraction of the people will have, with the
22 correct treatment, a suppressed TSH. But that won't be
23 all of the patients.

24 Q. I understand that. Just to make it clear, when you talk
25 about central hypothyroidism, it's something I think

1 we've been referring to, but it's the same thing, as
2 secondary hypothyroidism.

3 A. Yes. Well, secondary and tertiary. Tertiary means that
4 the hypothalamus is weak, and the secondary means that
5 the pituitary gland is weak, so central means the two.

6 Q. I understand. Obviously if the patient is sick and the
7 pituitary gland sometimes gets a disease, or it may have
8 a tumour, yes? And if you put T4 into the body, there
9 are circumstances where the TSH would become totally
10 suppressed.

11 A. Yes.

12 Q. But presuming all else is working, as it were, you
13 do not want to put so much T4 into the system as to
14 totally suppress the TSH, do you?

15 A. If I can avoid that, it's better.

16 Q. Why?

17 A. Because it's still one of the signs during a follow-up
18 of overdosing. You can, when you overdose, have
19 a suppressed TSH. Here with the lab tests I had here,
20 I could not deduce the information because the
21 suppression was most likely due to a morning intake, but
22 generally I prefer to keep it between, let's say, 0.1
23 and 2, or like I said, even optimally between 0.5 and 2.
24 But some patients, like I said before, also may have
25 some, in the cells, deficiency and they may need some

1 higher dose, but it is not the majority.

2 THE CHAIRMAN: Could I just clarify, 0.1, is that 0.1 or
3 1.0?

4 A. That's 0.1. Under this reference range you can have
5 increased losses of bone density in post-menopausal
6 women and other eventual pathologies, so I prefer to be
7 above that level.

8 MR KARK: That is, just dealing with that, a recognised
9 risk. Nobody knows how serious the risk is but it's
10 a recognised risk --

11 A. Well, it's a moderate risk because it's not accompanied
12 by fracture risk and we see this also in the cancer
13 patients.

14 Q. There are studies that say it may be accompanied by
15 fracture risk, you heard last --

16 A. It may be but, again, not every patient is the same so
17 you still have to evaluate the patient. I think what we
18 should avoid is bringing the patient in what we call
19 a hypothyroid situation. If they have the morning blood
20 withdrawal in appropriate conditions and they have
21 a suppressed TSH that is not detectable with a good
22 laboratory, you may have some patients that will do fine
23 with that and okay, but it's still a minority of
24 patients.

25 Q. Your goal is to keep it within the reference range?

1 A. Within the reference range or at least above the 0.1.

2 Q. When you heard the evidence of Dr Skinner -- were you
3 here when he gave evidence?

4 A. Yes, I was here. I was here the whole week.

5 Q. When you heard the evidence of Dr Skinner that there was
6 no TSH reading with which he would be uncomfortable, was
7 that slightly --

8 A. I did not agree. But I think what was meant, if I give
9 you comment -- or not? Okay.

10 Q. I think with respect you can comment on what he actually
11 said. The Panel will have to work out what he meant by
12 it.

13 The reality is that if somebody is on long-term
14 thyroxine, their TSH is going to go down. If they're on
15 too much thyroxine for a long time, their TSH is going
16 to be suppressed under negligible.

17 A. Yes.

18 Q. Say for two or three months.

19 A. But some also hypothyroid at 0.2 or 0.3, so you have
20 individual differences.

21 Q. If someone's on thyroxine for, say, two or three months
22 or longer in fact, their TSH is going to be completely
23 suppressed if they're being overdosed.

24 A. Yes.

25 Q. And it doesn't much matter when you take the blood test

1 for that person, because that TSH isn't going to recover
2 for some time, it might recover a week or ten days
3 later.

4 A. That's not true.

5 Q. Tell us about that.

6 A. Like the picture I showed. If you want I can show it
7 again but I know you prefer not.

8 Q. I'm sure we'll remember it.

9 A. You had a decrease of the TSH during 13 hours, half the
10 time. Then it went up again. So with a normal
11 thyroxine, even if you have a suppression, let's say,
12 the whole first part of the day it's very likely the TSH
13 will go upwards later on.

14 Q. What study have you done in relation to people who have
15 been on thyroxine for longer three months that would
16 demonstrate what you've just told us --

17 A. The study I just showed you.

18 Q. -- where the TSH is totally suppressed?

19 A. Well, this is my experience. If I have patients who
20 have been with a suppressed TSH and they stop the
21 treatment, but it's more experience, it's like you say
22 it's not a study, but experience also is part of here
23 the expertise, is that they don't have any problem, they
24 recover. You saw also these patients. The patients
25 here under Dr Skinner, you saw when they stopped the

1 treatment although they seemed to have a suppressed --
2 although I think it is for other reasons -- TSH, the TSH
3 came back to normal. Even in patients who would have
4 a suppressed TSH I think it would come back normal.

5 There are studies rats for instance but that is for
6 other endocrine deficiencies, where they give an
7 overdose in male hormones to rats and the testicles, or
8 the blood levels of the old rats when the treatment was
9 stopped were the same as in young rats, that means that
10 not only was the suppressive treatment did not have any
11 adverse effects but the testicles of those rats produced
12 the amount of young rats while they should have produced
13 the amount of old rats that is much lower, and it's very
14 likely it's the same with the thyroid function.

15 Q. Very likely? I suggest you're wrong about that. If
16 a person is on thyroxine for three or four months and
17 they're being overdosed with thyroxine, I suggest to you
18 their TSH is going to go down. I'm not saying their
19 gland can't recover but I'm going to suggest their TSH
20 will be completely suppressed.

21 A. And will remain completely suppressed later on, that's
22 what you mean.

23 Q. Yes.

24 A. No, I don't think so. And on which study do you base
25 this information?

1 Q. Well --

2 A. You do have a study to read for us, or don't?

3 Q. Dr Hertoghe, your evidence about why these particular

4 patients, the TSH was suppressed in these particular

5 patients, is based upon your assumption that the blood

6 test was taken shortly after taking thyroxine, is that

7 right?

8 A. Not even shortly, five hours later you can have still

9 this effect.

10 Q. So we have to assume that the doctors who ordered these

11 blood tests, presumably including Dr Skinner, I don't

12 know, didn't know that it would be a bad idea to take

13 a blood test when the patient was full of thyroxine.

14 A. That's what I read, the report exactly, the first

15 impression I get.

16 Q. So we're assuming that doctors are not used to saying:

17 before I take take a blood test from you must either

18 fast or you not have sugar --

19 A. I think the fasting is something people say, but for

20 a medication like thyroid hormones I think they didn't

21 do it.

22 Q. You think they didn't do it right?

23 A. No, they did not say it.

24 Q. Simply based on the test --

25 A. I have no indication that is so, and normally there

1 should be at least one indication. It should also in
2 the reports of the endocrinologist here, and I see no
3 information, here except for a little sentence of
4 Dr Weetman.

5 Q. That may be because it was thought to be blindingly
6 obvious that --

7 A. Maybe, but the type of test, what really is determined
8 for me that the patients took it before is that there
9 was apparently no clinical signs or symptoms of
10 overdosage, neither in Dr Skinner's report, nor in those
11 of the GPs or the endocrinologist who have seen the
12 patients. That seems to me very likely that this is the
13 cause, and I would have preferred having a test
14 additionally two weeks later or one week later,
15 whatever, in the appropriate conditions.

16 Q. Clinical manifestations of hypothyroidism. I just want
17 to deal with some of those that you have raised. Let's
18 just deal with headaches. You have quoted and printed
19 part of this book in your various slides.

20 A. Yes.

21 Q. If we have a look at page 17, just dealing for the
22 moment --

23 A. Which?

24 Q. This is of the slides, and it's of the first bit of the
25 slides.

1 THE CHAIRMAN: D14.

2 MR KARK: Thank you.

3 THE CHAIRMAN: Remind of me of the page.

4 MR KARK: Starting at page 17. I think you repeat it where

5 we can see that under "Symptoms of hypothyroidism",

6 you have --

7 A. Headaches.

8 Q. Have you just photocopied this or is this a print that

9 you've done?

10 A. This is a Powerpoint.

11 Q. Yes, that's not a photocopy of it that you've scanned.

12 A. No, it was later.

13 Q. Have a look at that, this one we're looking at there --

14 A. What I said was it was an adaptation. So you have here

15 headaches but what I added is especially diffuse and

16 migraines. This is a sort of lecture to inform what

17 sort is typical.

18 Q. Right. You have put that down as a symptom of

19 hypothyroidism?

20 A. Yes.

21 Q. And then you're quite right, you have indeed photocopied

22 part of the book. If we go to page 51, you've put next

23 to it "New edition" on the left?

24 A. This is not the real new edition, this is the edition

25 previous, but the page number is the one for your book.

1 Because I looked up in your book, you had
2 a confirmation, but I didn't have the possibility to
3 photocopy.

4 Q. So you did have available to you the new book when you
5 wrote this?

6 A. Yes, and that's why I add that now in the new book it
7 was caused as a symptom of tumours, and not in the
8 first.

9 Q. Page 52, another bit of Powerpoint.

10 A. It's the same actually.

11 Q. You've actually written in a special little section
12 there, "Headaches equals symptom of hypothyroidism".

13 A. Yes. These are the articles here.

14 Q. Do you remember you expressed surprise that neither
15 Mr Lynn nor Professor Weetman knew that given that it
16 was in the book that Professor Weetman had actually
17 contributed to?

18 A. Yes.

19 Q. Can I show you the page from the book that you saw.

20 A. The difference with the new edition is that they have
21 added it's in case of tumours.

22 Q. It's in case of what?

23 A. Is that the point you wanted to make?

24 Q. Just wait until the Panel have it, would you?

25 THE CHAIRMAN: This is C10.

1 MR KARK: If we look at the top of the page, first of all,
2 clinical manifestations of hypothyroidism.
3 Symptoms: fatigue, lethargy, sleepiness, mental
4 impairment, depression, cold intolerance, hoarseness,
5 dry skin, decreased perspiration, weight gain, decreased
6 appetite, constipation, menstrual disturbances,
7 arthralgia, and paraesthesia.
8 Signs: slow movements, slow speech, hoarseness,
9 bradycardia, dry skin, not pitting oedema, hyporeflexia,
10 delayed relaxation of reflexes. So headaches don't make
11 a mention in there.
12 A. Yes, but you already have given a certain way the
13 answer.
14 Q. What's that?
15 A. You have listed very few symptoms here. So here are
16 some of the most characteristic symptoms of low thyroid
17 function, but that does not mean that these are the only
18 ones.
19 Q. And we don't see anything about side vision
20 hallucinations there, do we, either?
21 A. Yes.
22 Q. Let's have a look at the bottom of the page, which is
23 the bit you photocopied from the old book and apparently
24 had available to you:
25 "Clinical manifestations of specific causes of

1 hypothyroidism.

2 "Finding: headache, cause of hypothyroidism,
3 pituitary or hypothalamic tumour."

4 A. That is true.

5 Q. Could you just help us: you've been very critical of the
6 experts called by the GMC, about them not quite giving
7 the full picture. Why did you not choose to photocopy
8 that or make it clear when you gave your evidence?

9 A. What do you mean exactly? Because in the first -- what
10 I photocopied it's clearly inside. Clinical
11 manifestations.

12 You have in a previous edition, which is probably
13 just before, it's written in the whole column. But what
14 is the textbook actually? A textbook contains -- tries
15 to summarise the most important findings. It does not
16 mean that if the symptom is not here, it's not a symptom
17 of hypothyroidism. In probably other textbooks you
18 might find it. That is why I added, when I talk about
19 the headaches references, where you see clearly
20 an association with headaches in hypothyroidism and that
21 means also that when you give thyroid hormones, those
22 headaches may go away.

23 Q. Let's just go back to page 17.

24 A. Of my report?

25 Q. Of your slides. You presented this to the Panel,

1 symptoms of hypothyroidism. The right-hand side of the
2 page:

3 "Headaches (especially diffuse).

4 "Migraine."

5 You printed your reference there as being from
6 Werner & Ingbar, from this very book. Now, that is
7 totally misleading, isn't it?

8 A. No, because at the moment I showed the slide I clearly
9 said it was an adaptation. An adaptation of the text.
10 So I took many of the symptoms -- for instance you will
11 never see morning depression because the morning
12 depression is not described in the textbook called the
13 thyroid. So that's why I specifically added this
14 information.

15 Q. Do you think, I just want to have your evidence clear,
16 that you made it clear that in the bible, as it were, as
17 I think it might be described, the bible of thyroid
18 problems, Werner & Ingbar, you think you made it clear,
19 do you, that in fact when you refer to headaches, those
20 were actually headaches as a result of the pituitary --

21 A. In your book for the moment. But in the other book it
22 was not specified. It was specific causes of
23 hypothyroidism.

24 Q. So when you say in the other book, which other book?

25 A. Well, it's the Werner & Ingbar previous edition.

1 Q. Let's have a look at that then. Page 51. Do you see
2 page 51 is where you've actually copied the old book.

3 A. Yes.

4 Q. Symptoms and signs associated with specific causes of
5 hypothyroidism. Diffuse or nodular goitre, and then
6 symptoms and signs of pituitary or hypothalamic tumour.
7 Headaches, visual impairment.

8 A. Yes.

9 Q. You think that was clear, do you?

10 A. No.

11 Q. Right. Let's move to?

12 A. That's why I quoted other studies that were much more
13 clear.

14 Q. Is this the Maryland study?

15 A. Which study are you talking about?

16 Q. The study you told us there was a study that did show
17 headaches were a common symptom of hypothyroidism.
18 Is that the Maryland document you gave us?

19 A. The list where you had headaches is symptom of
20 hypothyroidism, and those are in the article you
21 received yesterday, I believe, about headaches.

22 Q. This is from Maryland, was it Maryland University?

23 A. I think it was the other article from the Headache
24 Association or something like that.

25 Q. You see, looking through -- you get all sorts of reports

1 don't you?

2 A. Yes.

3 Q. And you can have patient surveys, you can have articles
4 in magazines, then you can have research, you can have
5 peer reviewed research.

6 A. Yes.

7 Q. You can have articles and peer reviewed articles, and
8 there's a gradation of scale there?

9 A. A gradation absolutely.

10 Q. Headaches do not appear, I suggest, as a classic
11 manifestation of hypothyroidism in recognised peer
12 reviewed research.

13 A. I don't think so.

14 Q. All right.

15 A. I think the studies you have here from Cephalgia is
16 a peer reviewed journal. Journal of Clinical
17 Endocrinology and Metabolism is the number 1.

18 Q. Okay. Of course if --

19 A. You don't have everything in a textbook in the right
20 place.

21 Q. I understand. If Werner & Ingbar is right that
22 specifically headaches are linked to pituitary and
23 hypothalamic tumours --

24 A. Yes, also that's not the only cause.

25 Q. I understand that. Just pause for a moment, and I'll

1 ask the question.

2 If that's right and headaches are linked to those
3 particular problems, when you are looking at a patient
4 that you think might be hypothyroid and they're
5 complaining of headaches, what red flag ought to go up
6 in your brain?

7 A. Well, actually for me it's not the classical symptom of
8 hypothyroidism. I know that if they have headaches and
9 I can discriminate with typical signs of hypothyroidism
10 like the typical dry skin, the elbow keratosis, the
11 swollen eyelids and also the panoply of other signs and
12 symptoms, then I know there's a high chance that their
13 headache will disappear, and with thyroid therapy, that
14 doesn't mean it's the absolute therapy for it and
15 I would not give it for headaches alone.

16 Q. Is there a serious danger that by giving that person,
17 complaining of headaches, thyroxine, which may well get
18 rid of their headache, you are going to conceal
19 pituitary or a hypothalamic tumour?

20 A. No.

21 Q. Why not?

22 A. Because there are other signs of deficiency when you
23 have a pituitary tumour. You have a decrease in
24 secretion of all the other hormones and the TSH, FSH,
25 LH, SATH, growth hormone are all very low.

- 1 Q. Then you should look at those, shouldn't you?
- 2 A. Yes, you should look. When you see these other signs
3 you should look, but there's also signs like visual
4 impairment, it's also more lateral, so there's a lot of
5 possibilities, there should be other signs, but just
6 headaches on their own is probably not due to pituitary
7 tumour, but if they keep on being there, although
8 a treatment has been installed, you should do a scan or
9 a magnetic resonance imaging.
- 10 Q. You say even if treatment has been installed, if you
11 have a headache, walk through the door, your patient is
12 hypothyroid, she's got a headache, right? And you have
13 a look in this book -- I appreciate that the book isn't
14 everything -- and you understand that headaches may be
15 linked to pituitary and hypothalamic tumours, you would
16 want it make checks, wouldn't you?
- 17 A. Certainly I will, but not in all circumstances because
18 you have common headaches. And when it comes from
19 a pituitary tumour you really have some typical signs,
20 like it aggravates with time so you have a medical
21 history suggestive of it, but I agree with you
22 completely that you should not wait too long to do
23 additional tests.
- 24 Q. Let me turn to another symptom that Dr Skinner
25 apparently found and which caused an eyebrow, to be

1 raised, as it were, by Professor Weetman and I think by
2 Mr Lynn. This is side vision hallucinations. You deal
3 with this at paragraph 43 of your report.

4 How many patients have you seen, do you think, over
5 the last couple of years who you think are hypothyroid?

6 A. Just a moment. What page are you referring to?

7 Q. Page 16 of your report.

8 THE CHAIRMAN: Do you mind just trying to remember the Ds?

9 MR KARK: I'm sorry, D13.

10 Page 16, paragraph 43. This is your report.

11 A. Yes.

12 Q. I asked you over the last couple of years how many
13 patients do you think you have seen who appear to you to
14 be hypothyroid?

15 A. So to be hypothyroid?

16 Q. Yes. To be suffering from hypothyroidism.

17 A. I think a lot, but they also come with -- it's a special
18 group of patients. I think Dr Skinner has the same.

19 It's people who have already often done their
20 self-diagnosis, they are more likely to be, so the group
21 is bigger.

22 Q. Pause there a moment before we come back to your report
23 and I just want to ask about that. You've seen a bit
24 about Dr Skinner's practice. He's a secondary referral
25 specialist.

1 A. That is what I understood, yes.

2 Q. Are you in the same position?

3 A. No, in Belgium we don't have this splitting. People can
4 come directly to my consultation, so we don't have
5 a split.

6 Q. They don't need to be referred to you?

7 A. No, it's not an obligation.

8 Q. But if you were here, you would be in the same position
9 as Dr Skinner.

10 A. It might be.

11 Q. Because people would be coming to you because they think
12 they have a particular condition and you're
13 the specialist in their condition.

14 A. I must say that one of my collaborators had this problem
15 in Belgium and they decided that this sort of work is
16 equal to that of the general practitioner. So it might
17 be a different position.

18 Q. All right. What you say in your report at paragraph 43
19 is this:

20 "I did not know that the complaint of visual side
21 perceptions was a typical hypothyroid complaint, but
22 ignorance does not mean it doesn't exist."

23 Can I just ask you this: if you had come across
24 a number of patients who made a similar complaint to
25 you, presumably you would have put it in your report?

1 A. I would, yes.

2 Q. And we can take it therefore that you have not had
3 similar experience to Dr Skinner?

4 A. But I didn't ask the question because when patients come
5 to my place, they have already so many questions to
6 answer that we stick on to those questions.

7 Q. Right. Well, perhaps a patient who comes to you might
8 not mention a symptom of seeing things out of the corner
9 of their eye, but some would, wouldn't they?

10 A. It probably would, but the fact -- I'm confused because
11 I didn't expect to see this, but when I saw that their
12 visual field effects in 73 per cent of patients was
13 primarily hypothyroid following one study I think I'm
14 going to search for.

15 Q. Yes.

16 A. So I'm open, that doesn't mean that I believe that there
17 are hallucinations, but there seem to be anyway visual
18 field effects, and I was so curious that I wanted to see
19 if it was really possible if hypothyroidism, and I found
20 several causes.

21 Q. But nowadays with modern TSH testing, how often do you
22 actually come across visual field problems?

23 A. I wasn't aware of the problem, so I never checked for
24 that.

25 Q. Because visual field defects I suggest are a sign of

1 gross hypothyroidism and you simply don't get to that
2 position these days with TSH testing, do you?

3 A. Probably not. But again I wouldn't make exceptions.

4 Q. I'm sure you can make exceptions.

5 A. We have a lot of people that are diagnosed on other
6 grounds on hypothyroid that have headaches, and the
7 reason is they have a compression. There's a mild
8 degree of myxoedema that compresses the nerves and gives
9 headaches.

10 So why not visual side effects in the same
11 frequency?

12 Q. Yes.

13 A. So I'm open, you know. When you're remaining open, it
14 makes that sometimes we learn more.

15 Q. What you say in your report at the bottom of page 16 is:
16 "As you can see, there seems to me enough material
17 to take the complaints of visual side perception
18 seriously as a possible hypothyroid complaint."

19 It's not one which is recorded anywhere in the
20 literature, is it?

21 A. Well, here it is recorded in one reference so it's maybe
22 interesting to go for it. But I still --

23 Q. Sorry, which reference?

24 A. The first references. Normally we have copies of the
25 abstract. I have it here anyway.

1 Q. Do you have it?

2 A. Yes. I have it here. We can make a photocopy.

3 You have it, I think.

4 Q. We do have a huge file but I'm afraid --

5 A. The big file where you were --

6 Q. Do you want a copy of it?

7 A. You have this. It's maybe just -- I think you have the

8 full article where we talked about headaches. 51,

9 I think. And late on ...

10 Q. Can you tell us where in your report is the reference?

11 A. 55. Page 55 in the slides.

12 Q. That's visual hallucinations and psychosis occur more

13 often in hypothyroidism.

14 A. Above.

15 Q. Oh, visual side perceptions as a hypothyroid complaint.

16 That is referring to visual field defects again, isn't

17 it?

18 A. Yes.

19 Q. Yes.

20 A. It could be different but I don't know. Defects is

21 a very general term.

22 Q. I thought you had accepted that nowadays, hopefully, you

23 only get visual field defects in severely hypothyroid

24 patients.

25 A. I'm not sure about that because the skull is

1 a non-expandable bone structure and whatever oedema
2 you have, there can be too much, so in severe
3 hypothyroidism it is certainly much more frequent.
4 I think it must be more frequent. But you might have
5 people who have in certain tissues more sensitivity to
6 a lack of thyroid hormones and more myxoedema around
7 there , and could have visual side effects so I stay
8 open.

9 Q. It's not something you've ever seen?

10 A. I cannot reject -- I never checked for the -- I'm
11 certainly going to check in the future.

12 Q. Finally, this, I think, on the causes of hypothyroidism.
13 You mentioned at page 4 of D13 --

14 A. I don't have the number, is that the slides?

15 Q. Your report. Page 4. I'm just trying to find it. I'm
16 trying to find the point at which you discuss aging as
17 a --

18 A. Aging of the thyroid?

19 Q. Aging of the human body as one of the causes of
20 hypothyroidism.

21 A. Well, that was in the slides.

22 Q. Ah, sorry.

23 A. The bigger one.

24 THE CHAIRMAN: D14.

25 A. Page 20 and 21?

1 MR KARK: Okay. Can you just help us with this: are you
2 suggesting that signs of aging should be treated as
3 a symptom of hypothyroidism?

4 A. No. I've written an article in the annals of the
5 New York Academy of Science. It's a very extensive
6 article, I think it's more than 1,100 references, that
7 aging could be caused by multiple endocrine
8 deficiencies.

9 One of those is the thyroid function. You see here
10 in these slides a lot is aging, but you have this for
11 most of the other endocrine systems, there's an aging on
12 all sides but the body stays at the same size and volume
13 and it apparently needs more or less the same levels
14 than you have in young adulthood. So this is one of the
15 aspects of aging.

16 We age also with a lower production of thyroid
17 hormones and lower levels in our cells.

18 Q. Are you suggesting, I don't know the answer to this,
19 that the normal changes which occur in the body as
20 a result of aging require treatment with thyroxine?

21 A. For the thyroid axis? Yes, if the thyroid axis has too
22 low levels, you will have all those possible pathologies
23 and the people feel not so good, so they need treatment.
24 So sooner or later, if you live long enough, the
25 likelihood is very high that you might need thyroxine or

1 other thyroid preparations.

2 Q. Can we turn to the disadvantages, if any, of using
3 thyroxine. I think you accept that if a patient is
4 overtreated with thyroxine, they may suffer bone density
5 reduction.

6 A. Yes.

7 Q. Do you accept also that if a patient is overtreated with
8 thyroxine they may suffer episodes of atrial
9 fibrillation?

10 A. I think it is possible, yes. But a real overtreatment,
11 not biochemical, but complete overtreatment, yes, and
12 hypothyroidism also.

13 Q. What do you mean not biochemical but a complete
14 overtreatment, when is an overtreatment?

15 A. You need to have clinical signs also. To be sure that
16 you have clinical signs it's a whole picture. And I can
17 tell you when the thyroid hormones are too high, when
18 the blood tests are really too high, done in appropriate
19 conditions, you usually do have clinical signs.

20 Q. Dr Hertoghe, isn't that slightly circular? If a person
21 is suffering from heart palpitations, that may be one of
22 the signs of hypothyroidism?

23 A. Yes, and the typical sign is tachycardia, but regular
24 tachycardia, that's not typical for atrial fibrillation.
25 But you may have atrial fibrillation if you really

1 overdose.

2 Q. You don't have to have a whole list of other signs
3 before you conclude this patient is being overdosed. If
4 a patient is receiving thyroxine, their TSH level has
5 disappeared down so that it's negligible, and then they
6 suffer from heart palpitations, you, I expect, would
7 very quickly want to reduce the dose.

8 A. Yes.

9 Q. You would recognise that immediately, wouldn't you?

10 A. Yes. When a person is clinically overdosed, which
11 happens from time to time, you can always not do things
12 100 per cent correctly. One of the cardinal signs -- if
13 I hesitate, I listen to the heart, it pounds very hard
14 and quick, but regular.

15 If it is really seriously overdosed, the risk of
16 atrial fibrillation I think is certainly increased, but
17 you do have to have a 24-hour excess, because what
18 happens with the treatment, when they take their
19 treatment there's higher peak value and higher dose
20 during the day than -- lower values at night, so they
21 might be only temporary, part of the day.

22 Q. Sure. So you might have to do --

23 A. So it's less dangerous. That's why I think, my
24 interpretation of all those studies, the studies that
25 show increased risk of atrial fibrillation is generally

1 always in people who are not being treated but have
2 spontaneously too high hormones.

3 Q. But if you do think a patient is being potentially
4 overtreated, what's the basic test you want to do to
5 find out what's happening with their blood?

6 A. Well, if it's during a treatment and it's just a slight
7 overdose, of course we just reduce the dose, we see it
8 comes into correction. But generally the patient has
9 always come also with a blood test two or three weeks
10 before, so we have at the same time the blood levels
11 that will at that time in appropriate conditions,
12 generally also be overdosed.

13 Q. The medical way, the scientific way of establishing if
14 a patient is being overdosed with thyroxine is to take
15 a blood test, isn't it?

16 A. That's included but it's not sufficient.

17 Q. I understand that. I understand that you say that you
18 need to have clinical signs as well.

19 A. As well.

20 Q. It's a basic test.

21 A. Yes.

22 Q. Can we deal with the idea of back stacking and failing
23 to convert T4 to T3. I'm going to touch on this very
24 briefly.

25 If you have a patient who isn't responding to your

1 treatment, even quite high treatments of thyroxine, what
2 are the possibilities?

3 A. Well, the first thing I would think that there might be
4 other endocrine deficiencies. For instance, a woman who
5 is in the post menopause might need female hormones.

6 My experience is you need to treat all the
7 deficiencies in order for a person to feel optimum. In
8 these cases here I think, for instance the
9 post-menopausal woman might benefit from a safe
10 treatment with female hormones, she would have better
11 improvement.

12 Q. So what would you do to find out if that was the right
13 thing to do?

14 A. I would do a blood test and a clinical examination in
15 the same sense, and questionnaires over the typical
16 symptoms of low female hormones.

17 Q. You would be looking for alternative problems to the
18 thyroid, wouldn't you?

19 A. Yes.

20 Q. Because one possibility, apparently, is that they're
21 failing to convert but there are a myriad of other
22 possibilities?

23 A. Yes, but generally we already know if they are poor
24 converters because either they have a low T3 because
25 (inaudible) the T3 and a higher T4 in the blood, that is

1 easier, borderline low T3 and more acceptable level of
2 T4, or they have deficiencies like iron deficiencies
3 that are severe enough to impair the conversion.

4 Q. I think you just said it, but the test that you would
5 do, you might do a number of tests, but one test you
6 would inevitably have to do would be find out what their
7 T3 is?

8 A. Yes.

9 Q. Because if you just keep loading them up with T4 or even
10 add T3 to the system, you might be overdosing them with
11 T3?

12 A. Yes, and maybe check the iron so that you see the cause
13 of eventually a poor conversion.

14 Q. You don't just assume, do you, that the problem is still
15 hypothyroidism but you are going to pour more T4 and T3
16 into them?

17 A. It's still hypothyroidism, but the better method that
18 I propose is to check also other reasons why the
19 conversion would not be good enough, but it's true that
20 if you keep on giving thyroxine, you end up by having at
21 the end sufficient T3, but then with a sort of
22 abnormally high T4 and a more or less acceptable T3.

23 I showed you the slide where you needed with the
24 actual treatment with thyroxine to have a sufficient T3
25 level to have it borderline high or above the upper

1 reference range.

2 Q. Isn't one of the things that you would have to consider,
3 that you had got your diagnosis of hypothyroidism wrong
4 if the patient isn't getting any better, no matter how
5 much T4 --

6 A. That's why it's called a therapy trial. If the therapy
7 trial doesn't work, you might have to look elsewhere.
8 But there are different ways, so you can increase the
9 dose but I think the best is to have a little larger
10 screening of other deficiencies that may cause those
11 symptoms?

12 THE CHAIRMAN: If you're finished with back stacking, shall
13 we break for 20 minutes?

14 MR KARK: Could I ask what time we're going to aim to
15 continue until this afternoon.

16 THE CHAIRMAN: 5 o'clock.

17 MR KARK: I hope I'm going to finish this afternoon.

18 THE CHAIRMAN: So we will meet again at 3.20. Thank you.
19 (3.00 pm)

20 (A short break)

21 (3.20 pm)

22 MR JENKINS: Can I raise one matter. I did ask you last
23 night whether you wanted the extra slides, and I had
24 completely forgotten this morning, perhaps because
25 I didn't think we were wanting to see more slides. But

1 there are quite a lot of slides, about half an inch
2 worth, that were copied yesterday, which should have
3 been distributed first thing this morning. Sorry about
4 that.

5 I think you have seen the relevant slides, but it is
6 appropriate that you should have copies of them as well.
7 I know they're available.

8 THE CHAIRMAN: That is fine. Is this what Mr Kark had last
9 night?

10 MR JENKINS: I don't know that Mr Kark had them.

11 MR KARK: Having asked for them, I left without taking them
12 with me. If we could all have them.

13 THE CHAIRMAN: D18.

14 MR JENKINS: Thank you very much.

15 MR KARK: I was going to turn to page 9 of your report and
16 paragraph 17. D13. You write this:

17 "The US National Academy of Clinical Biochemistry,
18 world's best recognised institute for making up
19 laboratory guidelines, indicates that thyroid treatment
20 should consist of maintaining the TSH level in the lower
21 half of the reference range, that is, between 0.5 and
22 2."

23 Then you say:

24 "This guideline is in contradiction with
25 Dr Weetman's view that the serum TSH should be in normal

1 reference range (0.4 to 0.5 or 5.5). It is also in
2 contradiction with his 2001 editorial where he says,
3 'The observation also suggests to me a rationale for
4 maintaining a TSH below 2 milliunits per litre in
5 patienting receiving thyroxine'."

6 Again, I don't want to spend too much time on this,
7 but first of all, do you agree that the aim in treatment
8 should consist of maintaining the TSH level in the lower
9 half of the reference range?

10 A. Yes, I think that's a good guideline.

11 Q. Right. So you want to keep it between 0.5 and 2, yes?
12 You would have to take fairly regular blood tests to see
13 what was happening, yes?

14 A. Yes.

15 Q. What would "fairly regular" be, quarterly, every three
16 months?

17 A. In the beginning it's more often, and we are, let's say
18 in Belgium, more limited, but I would do it every three
19 to six months, and occasionally when a patient is on
20 a very long-term treatment, sometimes there are patients
21 where -- I think optimally it's every six months, later
22 on.

23 Q. But at the beginning you would want to do it rather more
24 often than that?

25 A. Well, thyroid treatment starts slowly, so you may not

1 make the patient return back before more or less two
2 months. Otherwise there's not sufficient results.
3 Actually, at that moment the patient is still slightly
4 underdosed normally and by clinical observation we can
5 know we can increase, and that is -- for instance, in
6 Belgium we are limited. I think it is safe to
7 eventually not ask a test if there are test
8 restrictions. I don't know if there are test
9 restrictions here in this, I believe so because there
10 are not many tests that are passed. So I can do the
11 following follow-up consultation a check, and generally
12 I do it at every follow-up consultation.

13 Q. A blood test?

14 A. Yes. But if the dose is already quite low, it may not
15 always be helpful to do a blood test at --

16 Q. If you're having to change your dosage or introduce T3
17 into the system, you would want to do a blood test?

18 A. Yes. As additional help, but also you need a clinical
19 examination. It's always a combination.

20 Q. You say this:

21 "This guideline is in contradiction with
22 Dr Weetman's view that the serum TSH should be in the
23 normal reference range."

24 But that's his view in relation to before you start
25 treatment, it's not in relation to once treatment has

1 started. You're comparing with respect two different
2 things?

3 A. Yes, later on he himself wrote that his optimal values
4 during treatment was up to 2.5.

5 Q. Yes, exactly. You deal with that at paragraph 22 of the
6 same report. So Professor Weetman is aiming at almost
7 the same, I think, he accepts 2.5 as the upper limit,
8 doesn't he, in treatment?

9 A. Well, when I read the report, apparently it's what he
10 does but that's not his guideline, I think the guideline
11 of the British Thyroid Association --

12 Q. Is simply to stay within the reference levels.

13 A. Yes.

14 Q. I understand.

15 A. Which is apparently not sufficient, because if you stay
16 within the reference range during day time, probably at
17 night you are not any more in the reference range, it
18 might be higher.

19 Q. But you agree that the goal of treatment should consist
20 of remaining in the lower half of the reference range --

21 A. Yes.

22 Q. -- between 0.5 and 2.

23 A. Optimally. There are always patient variations. There
24 are patients you cannot lower the TSH under the 2 or
25 they might feel some heart palpitations. There is

1 absolute clinical evaluation necessary to spot the
2 differences. Always have exceptions.

3 Q. Can we then turn to the upper limit of the reference
4 range, because this is where there's some controversy.
5 First of all, your evidence yesterday, and I have taken
6 this, if anyone has yesterday's transcript, from
7 page 93. I'm presuming that what we receive on e-mail
8 is the same page number as it will be when it's printed
9 out. That isn't always the case.

10 Let me just repeat your words to you:

11 "I was quite surprised when one of the experts said
12 that three out of four studies I have checked in healthy
13 and non-healthy persons, that reference ranges were the
14 same. I've seen so much the report of that expert,
15 I have very great doubts that whatever he says is
16 correct. I'm a little ashamed to be able to say that,
17 but I was so surprised either the level is not good or
18 there is a problem there. There is a scientific
19 evidence problem."

20 Now, Professor Weetman, I think what you're
21 referring to is that Professor Weetman was talking about
22 three out of four --

23 A. Yes.

24 Q. -- studies.

25 A. I think also in the words I said, I said I have to check

1 that information.

2 Q. Okay.

3 A. I think it's also in the -- it must be in the transcript
4 because of my remembering, I also have to check.

5 Q. All right.

6 The study that I think Professor Weetman was
7 referring to --

8 A. The three studies.

9 Q. Well, yes. They're actually encapsulated, I think, in
10 one report. It was four studies and it's headed "Is
11 there a need to redefine an upper normal limit of TSH"?

12 A. That's a very important article from Wartofsky or
13 something.

14 Q. This one actually isn't Wartofsky, this is from the
15 European Journal of Endocrinology, 2006, and it's
16 actually appendix 2 of Professor Weetman's report, which
17 I think the Panel were given. The essence of it is
18 this -- I am going to refer to the abstract.

19 Do you have Professor Weetman's report there just so
20 you can follow what I'm saying?

21 A. Yes, I do have.

22 Q. If you go to the back of it, you should find various
23 appendices.

24 A. I haven't receive it, but I have read the article of
25 Wartofsky, it's a lot of references I found in this

1 article. So I know what it's about.

2 Q. Have a look at appendix 2 just so that you can follow
3 with me.

4 A. I don't have it.

5 MR KARK: Can my solicitor assist?

6 This is, as you say, of some importance. Do you
7 remember this article?

8 A. Is there a need, is that?

9 Q. Yes:

10 "Is there a need to redefine the upper normal limit
11 of TSH?"

12 A. Wasn't that an answer to the article of Wartofsky or
13 something like that.

14 Q. It may be but I think it's one of the most recent
15 articles on this issue that we've looked at. We can see
16 that those who contributed to this article came from --
17 we can see in italics at the top. It's a very wide
18 range of, perhaps you'd accept, impressive contributors?

19 A. At least the last one we're seeing is very well-known.

20 Q. Right:

21 "Abstract. Mild forms of hypothyroidism,
22 subclinical hypothyroidism have recently been discussed
23 as being a risk factor for the development of overt
24 thyroid dysfunction" --

25 A. Excuse me, where are you reading exactly?

1 Q. Under the Abstract.

2 A. Okay.

3 Q. Just read it through:

4 "The diagnosis critically depends on the definition
5 of the upper normal limit of serum TSH. Cut-off levels
6 of 4 to 5 TSH have been conventionally used to diagnose
7 an elevated TSH serum concentration. Recent data from
8 large population studies have suggested a much lower TSH
9 cut-off with an upper limit of 2 to 2.5 but application
10 of strict criteria for inclusion of subjects from the
11 general population studies aiming at assessing TSH
12 reference levels ie no personal or family history of
13 thyroid disease, no thyroid antibodies and a normal
14 thyroid on ultra sonography did not result in
15 an unequivocal upper limit of normal TSH of 2 to 2.5.

16 "When summarising the available evidence for lowered
17 upper TSH cut-off values and their potential therapeutic
18 implications there is presently insufficient
19 justification to lower the upper normal limit of TSH and
20 for practical purposes it is still recommended to
21 maintain the TSH reference interval of 0.4 to 4.

22 "Classifying subjects, the TSH value between 4 and
23 4 milliunits as abnormal as well as intervening with
24 thyroxine treatment in such subjects is probably doing
25 more harm than good."

1 First of all, do you accept that this is a very
2 respectable piece of research?

3 A. I think it's very respectable, yes. But it's one of the
4 articles that answer to the (inaudible) launched by
5 Wartofsky; they must be listed here somewhere.

6 Q. I just want to concentrate on this for the moment.
7 There was one study, wasn't there, which was the study
8 in Pomerania, if we will go to page 635, the top
9 right-hand corner, where they reported -- if you look
10 at the left-hand side of 635, I'm sorry this is so
11 dense, but this is I think the only reference that I'm
12 going to make to it.

13 Do you see about five lines down:

14 "Indeed the study of health in Pomerania Ship 1, an
15 area in Germany with previous iodine deficiency reported
16 a TSH reference interval of 0.25 to 2.12 in a reference
17 population of 1,488 subjects."

18 Down to the next paragraph:

19 "Thus the only study so far providing a direct data
20 to support an upper normal TSH limit of 2 to 2.5 is the
21 Ship 1 study."

22 Then it deals further, I think, with the iodine
23 deficiency as there had been in the population?

24 A. So it's a study, if I may comment, that may confirm,
25 because if it was a previous iodine deficiency, they

1 have given iodine probably in the drinking water or
2 other means, in salt, so it corrected the iodine
3 deficiency of that region. So I would say it's an
4 optimal population.

5 The other articles that I see, the Danish study and
6 other German study, you did not have such a correction.
7 Well, Germany is iodine deficient country. Denmark
8 I thought also. So I would say close analysis would say
9 it's probably the most important study of those three
10 that I see here.

11 Q. Right. Which one is the most important study, the
12 Pomeranian --

13 A. My impression is this one, because, if I'm right, it's
14 a corrected iodine deficiency region, so you really have
15 a more optimal population because iodine deficiency can
16 cause increases in TSH and low thyroid function.

17 Q. That's not, with respect, what this report found, is it?
18 If you go to the second paragraph again, I don't think
19 we have to go into the detail quite so much:

20 "Thus the only study so far providing direct data to
21 support an upper normal TSH limit of 2 to 2.5 is the
22 Ship 1. However, despite their proper exclusion
23 criteria, the Ship 1 study probably still included
24 people with autonomous functioning areas in the thyroid
25 as judged from the fall in median values with age

1 probably reflecting the previously moderately severe
2 iodine deficiency in the Pomeranian population."

3 So the problem with that study was still an
4 uncorrected iodine deficiency, wasn't it?

5 A. Yes, but if you then correct iodine, the TSH would be
6 even lower in that region.

7 Q. Where do you say the TSH value should be?

8 A. Optimally it should be in the majority of people between
9 0.5 and 2, but there's a range of people between 2 and 4
10 that are good at that level. They have no clinical
11 hypothyroid symptoms, I wouldn't treat those patients.

12 There's part of the population between 0.1 and 0.5
13 that may have hypothyroid symptoms because they have
14 a sort of central hypothyroidism. So I would eventually
15 also treat those patients, so it's not that simple.

16 I need to have this confirmation by the clinical
17 exam to know if I can treat. There's a grey zone where
18 some people might be treated because they have a lot of
19 complaints and a lot of signs of deficiency and some
20 people shouldn't.

21 Q. The American Thyroid Association guidelines, which were
22 revised in 2002, I think note that the optimal TSH range
23 has been narrowed to 0.3 to 3.

24 A. Yes.

25 Q. That is the standard presently in the US, is it?

1 A. Yes. Well, for the endocrinologists who are part of
2 that organisation, so they have lowered the reference
3 range.

4 Q. If you --

5 A. But I would still think that there could be a person at
6 3 or 3.5 who might not need thyroid hormones because
7 they're clinically not hypothyroid. There will be
8 probably some exceptions but still.

9 Q. What is the range in Belgium?

10 A. The ranges in Belgium is between 0.4 and 3.5 or 4.0.

11 Q. Right. If you have somebody outside the range in
12 Belgium of, say, 4.5, but without symptoms, there is an
13 argument, isn't there, for treating that person because
14 of the danger that in the long-term hypothyroidism will
15 develop? Yes?

16 A. There might be a danger, but I need still -- I would
17 say, normally most of those patients do have clear
18 symptoms of low thyroid function. But if they
19 absolutely have no sign of thyroid deficiency, I would
20 recheck later on the value to see if we do have
21 a pathological value or not. I wouldn't rely on one
22 test when I find no clinical signs of deficiency.

23 Q. This, if I may say, is Professor Weetman's approach,
24 isn't it?

25 A. Voila.

1 Q. If on the other hand they are beyond the reference
2 range, say 6 or 7, but showing no clinical signs,
3 would you treat them or would you wait for clinical
4 signs to develop?

5 A. That's a more difficult question. I would do more
6 testing, but I never encountered this situation.

7 All patients who are above 4 I saw clinical signs of
8 deficiency. Physical signs like low Achilles reflex,
9 that is the reflex of the heel when you hammer, put
10 a hammer on it, it goes slowly, it's very typical.
11 I almost never saw a patient with a TSH higher than 6 or
12 5 that did not have a slow reflex. So there are typical
13 signs.

14 So it's a situation that is theoretical, but I have
15 never encountered it. So I would certainly do much more
16 screening, try to do more testing, examine maybe two
17 months later the patient. Because I think doctors
18 should not work dogmatically, here under this limit
19 people should be treated. We should by examining the
20 patient, doing the test, have a sort of interpretation.
21 Why would doctors be necessary otherwise if we don't
22 have this sort of possibility of interpretation?

23 Q. Well, what you're looking for, when you are doing
24 a blood test of this nature, is you're trying to find
25 out if there's any sickness in the thyroid, aren't you?

1 A. Yes. Absolutely.

2 Q. I see shaking heads opposite me, but that is your view,
3 that you are trying to find sickness in the thyroid?

4 A. Yes.

5 Q. Right.

6 A. Additional information.

7 Q. If you find signs of what you say are signs of
8 hypothyroidism, some of these classic signs that we've
9 seen here, and you treat that patient with thyroxine,
10 it's likely they're going to have to stay on a level of
11 thyroxine for a long time if not forever.

12 A. Well, normally it's a sign that they have a definite
13 deficiency, that they need to be on it. But if it is
14 not the correct treatment or for one of the other
15 reasons the patient wishes to stop, his thyroid function
16 comes in the 3 to 6 weeks later completely back to the
17 results of before.

18 Q. That is what I was going to ask you, if you stop your
19 treatment and you've been treating a patient for some
20 time but you find that when you stop your treatment
21 actually the patient's T4 levels and TSH levels are
22 exactly the same as they were before, within the
23 reference range, in fact --

24 A. Yes, after 3 or 4 weeks.

25 Q. The answer to that might be thought to be: there was no

1 thyroid disease in the first place. That would be
2 right, wouldn't it?

3 A. It could be right. Not in all circumstances.

4 Q. But if you're treating thyroid disease, and you're
5 treating it with thyroxine, and then you withdraw your
6 medication, you would expect the thyroid to have got
7 worse in the meantime?

8 A. Yes, but it's only for two or three weeks.

9 Q. With these patients that we're going to turn to in
10 a moment, those that came off thyroxine, that's exactly
11 what happened, isn't it?

12 A. Yes.

13 Q. They reverted.

14 A. That is classical.

15 Q. To exactly where they had been before. Yes?

16 A. Yes.

17 Q. With any disease you would expect there to be a gradual
18 deterioration, would you not?

19 A. With age, yes.

20 Q. It's not just age, we all --

21 A. With any disease the fact that you give a medication
22 doesn't mean that you're suppressing the thyroid gland
23 so that it will atrophy. Because what we're giving,
24 we're giving a fraction of what they need.

25 Not all thyroxine is absorbed, it's between 45 and

1 73 per cent. So as we give just a fraction, we're not
2 suppressing totally the function of thyroid gland. When
3 we stop the small 20 or 30 per cent lower activity that
4 it had, lower secretion, will come back as normal
5 before.

6 But there's always a certain inhibition of your
7 thyroid gland when you give a hormone, but it's
8 a temporary, a transitory emission(?). If you stop they
9 go back as they were before, even if they take 20, 25 or
10 30 years the medication, which is not normal because
11 normal, after 20 or 30 years, your thyroid hormones
12 should be lower, because levels lower with age. So
13 there seems even to be a certain preservation.

14 Q. Have you actually ever seen a thyroid gland that's been
15 treated with some form of thyroxine for 20 years?

16 A. Yes, of course. I have patients from my father and
17 other -- yes, and sometimes the patients have stopped
18 after 20 years their treatment, and then they come back
19 after a year because the physician said, their general
20 practitioner said it was not necessary, they come back
21 after a year, and they say: I feel so awful, I should
22 never have followed the advice.

23 And then they come back but their levels are not
24 that dramatically reduced, it's just back to what it was
25 before. I get the files from, for instance, the

1 patients of my father, and I have several, I would say,
2 cases a year.

3 Q. Can I turn, please, to the area of your report where you
4 deal with this, and I'm looking at paragraph 47 of D13,
5 your report. I am going to move on to the patients.

6 You disagree with Professor Weetman and I don't want
7 to, frankly, get into the battle between you on this
8 issue.

9 But you say this:

10 "Professor Weetman's explanation may lead to
11 misinterpretation for two reasons."

12 And I'm reading about five lines down:

13 "First, it may make people believe that 'normal'
14 means 'healthy', which is not the case. In fact the
15 reference ranges are not healthy ranges. Mark the
16 limits between healthy and sick values. They are merely
17 statistical ranges."

18 Then go further down the page please to second:

19 "It may make people believe that healthy results may
20 lie outside the reference range, while in general it is
21 the other way around. Values outside the reference
22 range are generally all pathological, while some values
23 within the reference range maybe pathological too."

24 A. I would take away, except the "all", it "generally",
25 most of the time.

1 Q. Because I was going to suggest you take away "all",
2 I might even suggest you take away "generally". There
3 are occasions when people are outside reference range
4 and you can see it no doubt as any walk through the
5 door. There are many, many people I suggest who will be
6 outside the reference range walking and talking quite
7 normally.

8 A. Not so easily for the thyroid gland because for thyroid
9 gland you really see the signs quite quickly. The
10 reference ranges for the thyroid hormones are very large
11 so they include a lot of people, healthy and unhealthy
12 people, but outside it is often unhealthy.

13 Now, if we would follow the guidelines to decrease
14 the TSH up to 2.5.2 which is suggestible --

15 Q. Which is at the bottom of the page.

16 A. -- I think then we will have a lot of people that are
17 healthy that would be outside of the reference range.

18 So that is the problem, why it is not so simple.
19 It is not a question of putting a reference range and
20 then we finally have a narrower reference range where
21 everybody inside is healthy, everyone outside is not
22 healthy.

23 There's on either part of the reference range a grey
24 zone where the doctor in full competency and full
25 professional work and in full knowledge of the situation

1 should decide whether or not it is time to treat and
2 then do a therapy trial and see how it works out. If
3 the patient doesn't need it, he will be quite quickly
4 overdosed. With thyroid hormones they will feel the
5 symptoms, no dangerous symptoms, heart palpitations but
6 not really dangerous, nervousness, and then we know it's
7 too much, we have to decrease.

8 So we need to have a grey spend zone, we need
9 actually to have two reference ranges. One very strict
10 where most of the people are probably hypothyroid, and
11 one where you have to look at the clinical situation to
12 see if it's necessary or not to treat.

13 Q. Dealing with these particular patients, you appreciate,
14 do you not, that, whether in England or America, with
15 these reference ranges, all of which were below 2.5, the
16 TSH levels, all of them for each of these four patients,
17 was below 2.5 --

18 A. Yes.

19 Q. -- you would be very hard pushed to find an
20 endocrinologist who would treat them with thyroxine?

21 A. Yes, in England.

22 Q. And America. If they were applying their guidelines.

23 A. Yes. An endocrinologist, diabetologist.

24 Q. As opposed to somebody, a member of your organisation,
25 the hormone society?

1 A. And to doctors who would treat also the borderline
2 deficiencies, because all is, what is the question here
3 is: can we treat or not borderline deficiencies or
4 intimate degrees of deficiencies. It is not so strict
5 that a person is either hypo, either not. There is
6 a progressive decrease in the function of the thyroid
7 gland, and somewhere the symptoms get to be too apparent
8 that there's treatment necessary for the health and
9 quality of life of the patient.

10 Q. Can we turn please to Patient A. In terms of your
11 report, I think it starts at page 26. So far as this
12 lady is concerned, she had TSH levels which you would
13 accept, I think, were well below the reference range for
14 treatment in England, America, Belgium, or anywhere else
15 you would like to mention?

16 A. Completely.

17 Q. Sorry?

18 A. Yes, completely agree.

19 Q. And we know that she had previously received advice that
20 she was clinically euthyroid before she was referred to
21 Dr Skinner. She went to see Dr Skinner on
22 16th January 2003 and her last TSH level was back in
23 May 2002. On the basis of what you have told this Panel
24 this afternoon, you obviously would have taken a blood
25 test, yes?

1 A. Yes. Sure.

2 Q. We know that Dr Skinner did take a blood test. You, it
3 would seem, probably wouldn't have started her on
4 thyroxine until you had received the blood test back,
5 but that may be a minor difference.

6 A. In most cases. There are patients who are at your
7 consultation, they are clinically so hypothyroid and
8 they beg you for treatment that I give once upon a time
9 a treatment. I say: do first your blood test but it's
10 almost sure that you need this therapeutic trial and we
11 go very, very slowly so in the meantime you're relieved.
12 But these are exceptions.

13 We don't have to forget that here are only four
14 cases, so generally the cases that arrive to the General
15 Medical Council I suppose it's so, are cases that are,
16 let's say, the most atypical, the most questionable, and
17 this is one of the cases where you could, because it's
18 so clear, look, bradycardia, 56 per minute, cracked
19 heels, yellow tint. It's typical, I have other
20 textbooks where you can find the yellowish keratin as
21 a typical sign of hypothyroidism: and how did she
22 improve?

23 Q. What question are you answering at the moment?

24 A. Well, I would say that in this case I would have waited
25 for the thyroid test.

1 Q. Thank you, so the answer is "I would have waited".

2 Now, when he did get the blood test back, we see
3 that the TSH was almost exactly what it had been before,
4 1.4, and the T4 was 12.

5 2. Help us: what would you have been looking for
6 in the blood test?

7 A. Well, like I've written here, the T4 is low and she has
8 clinical syndrome of deficiency with constipation, very
9 typical, and bradycardia, hoarse voice in the morning
10 and external curve of the eyebrow, the sign of Dr Eugene
11 Hertoghe. So I would have started a therapeutic trial.

12 Q. What would you have been looking for in the blood test?

13 A. I would look under the reference values of T4 and above
14 the reference values of TSH and if not, to see if
15 they're in a zone where there is a risk are more
16 diseases, and one of the cases is the T4 in this case.

17 Q. One of the things you would think about is: I know she
18 has some signs and symptoms and hypothyroidism, but
19 these TSH levels are within the reference range, this T4
20 level is within the reference range, I ought to consider
21 my alternative diagnosis.

22 A. Also, but usually when I do a blood test I have other
23 results I can look at those alternative endocrine or
24 nutritional diagnoses. But here, there is -- you know,
25 cracked heels the only other pathology where you see

1 that is vitamin A deficiency, and here there is --
2 should not be a vitamin A deficiency because there's
3 a lot of keratin, that's provitamin A, that's why
4 there's a yellow tint of the skin.

5 So the pathology, the disease that causes the
6 insufficient conversion of the provitamin A that
7 accumulates like a yellowish pigment into vitamin A is
8 generally low thyroid function, and so there are so many
9 signs in physical examination, that here my first
10 diagnosis of those rather typical symptoms of low
11 thyroid function and signs would be to give the thyroid
12 hormone. That would be my diagnosis of thyroid
13 deficiency and do a therapeutic trial.

14 Q. When the --

15 A. But it won't be the only. I would still look with more
16 attention to other deficiencies.

17 Q. What would you have done? Taken another blood test,
18 what?

19 A. What I usually do, I do a whole screening of most of the
20 hormones I give and vitamins.

21 Q. So you would have been looking for something else just
22 in case?

23 A. Just in case, yes.

24 Q. Would you simply, when the patient phones up to
25 say: I don't like this very much, it's making me feel

1 rotten and tense and I'm getting ahead headaches, would
2 you have simply have switched on to grain Armour or
3 would you have reconsidered the diagnosis?

4 A. Here I have difficulties, I don't have enough
5 information to answer you. It's a small dose where the
6 symptoms came, so it's not sure it was caused by the
7 medication. It's a very small dose. I would have stuck
8 probably with the same medication and tried to see the
9 patient back, or probably it was on the phone, I think,
10 that there's a switch that was made. I'm not sure about
11 that.

12 Q. Yes.

13 A. But what I usually do is I ask all the questions, all
14 the symptoms related to too low or too much thyroid
15 hormones. Some patients do have at that moment -- say,
16 "Yes, I don't sleep well, I'm trembling, I'm too warm",
17 so the dose is too high. I would then even stop the
18 medication. But if, when I'm asking on the phone, they
19 have a lot of symptoms typical of low thyroid function
20 I say, "Maybe something's wrong with this thyroxine."

21 You know, sometimes people have allergies to the
22 fillings of the medication and just by changing
23 medication, you don't get the problem. So I might then
24 indeed go to another medication. It depends on the
25 answers I get to my questions on the phone that are

1 clinical signs and symptoms that I ask.

2 Q. So having got those blood tests back, which show that
3 the patient's TSH was 1.4, the T4 was 12.2, then the
4 patient complains that the medication isn't working for
5 her, you would simply have switched to Grain Armour,
6 would you?

7 A. Yes, but I would have been comforted in this approach by
8 finding a lot of signs of deficiency that remained.
9 The bradycardia, that means slow pulse, the constipation
10 and all those things. So I need to have this other
11 additional information before making a decision.

12 Q. Can I ask this, on a completely different topic for
13 a moment. How many doctors are there in Belgium doing
14 what you do?

15 A. About 30 doctors.

16 Q. Treating hormones, hormone deficiency?

17 A. Yes.

18 Q. What do they describe themselves as? What sort of
19 specialism is this?

20 A. It fits more in the speciality of anti-aging medicine.
21 But it's just --

22 Q. Are they mostly members of the Anti-aging Society or
23 whatever it's called?

24 A. Yes.

25 Q. I asked you about endocrinologists in England and

1 America doing what Dr Skinner did. You apply the same
2 TSH tests in Belgium, don't you? And an endocrinologist
3 in Belgium --

4 A. Yes.

5 Q. -- is most unlikely to have done what Dr Skinner did,
6 isn't he?

7 A. But I add the T3 and I add the thyroid antibodies in
8 initial assessment.

9 Q. Let's have a look at Patient B, please. This patient
10 was very depressed. She had TSH scores in August of
11 2002 of 2.3 and T4 16.7, so it's a pretty healthy T4
12 score, isn't it?

13 A. It's a pity we don't have the T3 here.

14 Q. Yes, indeed it is. 14th January 2003, TSH almost
15 exactly the same, 2.4, and a T4 of 16.8. So there
16 doesn't seem to have been any problem. Between those
17 two dates, the four or five months between August
18 and January, no worsening of any disease, if there was
19 any disease, was there?

20 A. No, so that's why a therapeutic trial is useful.

21 Q. And it's relevant that she was very depressed, isn't it?

22 A. Yes.

23 Q. Right.

24 A. And there were two endocrine causes that were suspected:
25 hypothyroidism and menopause. This patient, I believe,

1 should also have been treated with female hormones to
2 get out of the depression.

3 Q. Would you have done some tests before that or would you
4 have just launched that as a trial?

5 A. Well, she had a test, but I would examine her also for
6 that and ask to pass a gynaecological control. In case
7 we treat, she must have been checked before for cancer.

8 Q. The only test we know that Dr Skinner had was the one
9 from January, two months earlier, which showed her TSH
10 to be 2.4 and her T4 to be 16.8.

11 A. But we had an FSH that was 52.9 and that is indicative
12 of lack of female hormone. That's above on the top of
13 the page.

14 Q. Is it page 3?

15 A. Page 29 on top, under depression, Beck's depression
16 inventory, 52.9. That's indicative of menopause.

17 THE CHAIRMAN: Sorry, we are on page 29 and it's up near the
18 top --

19 A. Medical history.

20 MR KARK: In your report.

21 A. Yes. My report, yes.

22 Q. I still can't find it, where is it?

23 A. 29 above.

24 Q. Oh, FSH 52.9, I'm sorry. What's the date of that?

25 A. I don't know. It was in the files of the general

1 practitioner. It was probably a year before, not
2 necessarily very close to it.

3 Q. All right. We don't know from his notes how much
4 thyroxine Dr Skinner gave, but we've heard from him
5 and you've heard that he instituted an incremental dose.
6 Again, looking at the TSH score, I suggest no
7 endocrinologist in England, Belgium, or America would
8 have been treating this woman with thyroxine at those
9 levels, would they?

10 A. No diabetologist.

11 Q. We know that nine months later --

12 A. I cannot say no diabetologist because we have in our
13 group also endocrinologists and diabetologists and they
14 do treat like this, but it's a very small fraction
15 compared to the majority.

16 Q. We know that nine months after treatment, this lady's
17 TSH was below 0.1 and her T4 was at 39. Now, you
18 explain that, as I understand it, in your report, by
19 your conviction that that must have been that whoever
20 took the blood test didn't really know what they were
21 doing and hadn't warned the patient not to take the
22 tablets?

23 A. I'm almost completely sure of that.

24 Q. Why?

25 A. If the information I have here, of course, is correct.

1 If there is a bradycardia of 52 per minute it's --
2 so it's even slower than it was before, it's almost sure
3 that she was not even sufficiently treated, but it's the
4 peak value after intake of the medication.

5 Q. Sorry, you're saying that she wasn't sufficiently
6 treated?

7 A. She wasn't sufficiently treated, apparently based on the
8 clinical examination. I never saw sort of an overdose
9 of thyroid hormones with a patient with a bradycardia of
10 52 per minute, or she was taking a medication that was
11 blocking the heart. It's really very low, you know, 52
12 per minute. But of course it's based on the information
13 I have here.

14 Q. Can we just have a look at Dr Skinner's note of the
15 second consultation. We have a typed version.
16 The easiest way to find it is right at the beginning of
17 tab 4 of the patient notes.

18 A. Which page number?

19 Q. If you find the cardboard tab 4, just after that you see
20 a typewritten document headed with the patient's name.

21 A. I see here more information also with low body
22 temperature, but it's peripheral.

23 Q. Would you have a look, please? It's written as
24 20th June 2004, second consultation. I think it
25 actually should be the 21st.

1 "Taking reduced dose of 200 micrograms per day on
2 account --"

3 We heard there was a slight change to that, "free of
4 palpitations", it might be either "on account of" or
5 "free of palpitations" for one month.

6 Now, 200 micrograms, is that a pretty strong dose of
7 thyroxine?

8 A. Well, it's in the guidelines of the BNF, 100 to
9 200-micrograms, and we saw that a patient who is overt
10 hypothyroid with 125 keeps having half of the time a too
11 high TSH. So I think it's an acceptable dose if it's
12 tolerated, if it doesn't cause any sign of overdoses.
13 But again here, 56 per minute with an enlarged tongue.
14 "Less swelling of feet", that means that they are still
15 swollen. "Hair less dry" means actually that there's
16 still some persisting signs of thyroid deficiency and
17 that she might benefit from more, on the condition she
18 doesn't have any signs appearing of overdoses.

19 Q. Your take on this, is it, is that she's not getting
20 enough thyroxine?

21 A. Apparently there might be still not enough at that
22 moment.

23 Q. This is all on the premise that her problem was
24 hypothyroid in the first place?

25 A. Well, when I look here, energy and libido could be

1 caused -- if they are better but not still perfect, that
2 could be caused by other things. But "hair less dry"
3 points more in the direction of thyroid deficiency.
4 "Memory still poor" could be caused by lack of female
5 hormones. "Less swelling of feet", so swelling of feet
6 is more linked to low thyroid function especially if
7 it's in the morning. "Tongue enlarged" is more a sign
8 of thyroid deficiency and "indented tongue" is a sign of
9 another problem, not enough water, and things like this.
10 But pulse 56 per minute is almost typical.

11 Q. But you're completely ignoring the blood test, aren't
12 you?

13 A. No, I explained to you that I will re-do a new blood
14 test and I will not accept to have a suppressed TSH at
15 that moment. I would have re-done the blood test.

16 Q. So you would have done a new blood test, is that right?

17 A. Yes. First I would have asked to the patient, "Did you
18 take the thyroid medication before or not?"

19 Q. Right.

20 A. What I think would be -- seeing the response, I think,
21 yes, I have taken it, so do it again.

22 Q. Right. Let's just imagine for a moment you get your
23 blood test back and it's right, it is below 0.1 TSH and
24 her T4 is 39. Would you still be dosing her up with
25 more thyroxine?

1 A. I would look for other causes.

2 Q. You would look for other causes?

3 A. Yes, for those symptoms.

4 Q. Because if those readings are right, this woman is in
5 danger, if not already, of being thyrotoxic?

6 A. Almost impossible with a pulse of 56 per minute.
7 If this information is correct, almost impossible. And
8 "hair less dry", you get wet hair. You get not the dry
9 skin, you get a wet skin. When you touch the skin of
10 a patient who is slightly overdosed it's already
11 a little wet all the time because they perspire too
12 much.

13 Q. Would the palpitations have caused you any concern at
14 all?

15 A. Yes, of course, if it's true that it's palpitations.
16 It seems to be that yourself you say it was free of
17 palpitations. If the palpitations would be the first
18 sign, I would reduce the dose.

19 Q. With the blood tests that you had, we can see at page 8
20 of tab 4, and the mention of palpitations, you wouldn't
21 have dreamt, I suggest, of adding T3 to this pot, would
22 you?

23 A. I would have asked for T3 also, so I would have had more
24 information with this blood test. We first have re-done
25 the blood test with T3 and T4 and the TSH before

1 changing the dose. But this is only in the hypothesis,
2 which I'm almost sure that it's not the correct
3 hypothesis --

4 Q. No.

5 A. -- that she did her blood test in adequate conditions.
6 I'm almost sure it's not true because you wouldn't have
7 such a clinical symptom. And I never saw it, when they
8 have such a fellow(?) they never have this, like, low
9 pulse rate unless they have taken high medications.

10 Q. Can I ask you the question again. With that blood test,
11 the patient had been under treatment for nine months
12 with thyroxine. With that blood test of less than 0.1,
13 T4 of 39, palpitations, you would not have dreamt of
14 giving this woman Tertroxin, would you, without another
15 blood test?

16 A. And I would have lowered the dose in meanwhile.

17 Q. Sorry, what's the answer?

18 A. I would not have increased the dose, I would have
19 lowered the dose and done another blood test if there
20 were palpitations.

21 Q. Is the answer -- I'm sorry to push you on this --
22 "I would not have given her Tertroxin without a further
23 blood test"?

24 A. You cannot stop suddenly a thyroid medication.

25 Q. I'll ask you once more. Do you accept that you would

1 not have given this woman Tertroxin, T3, without
2 a further blood test?

3 A. Yes.

4 Q. Thank you.

5 A. But again, I repeat, it's well specified in the
6 hypothesis, the test was done in appropriate conditions.

7 Q. And if it wasn't done in appropriate conditions, you
8 would demand a further blood test?

9 A. Yes.

10 Q. You wouldn't just crack on regardless, would you?

11 A. Not regardless, but you do have to take into account
12 that in certain situations -- you know, every situation
13 is different. If the person is suffering deeply from
14 hypothyroidism, there's no palpitations, I might have
15 switched over in the meanwhile because I was almost sure
16 that the pathological blood test was -- abnormal blood
17 test was due to the wrong condition. So it's not black
18 and white. But generally it is in the sense that you
19 suggest that I would not have changed medication before
20 having more information if she had palpitations and if
21 the blood test was done in appropriate conditions.

22 Q. Let's go to the third consultation with Dr Skinner on
23 18th March 2004. Do you see that towards the bottom of
24 that typewritten page?

25 A. Yes.

1 Q. She had now been on Tertroxin for a couple of months and
2 again there's a reference to three-quarters of an hour
3 beating heart. I think that must mean a thudding heart
4 or heart palpitations. What would you have done?
5 She wouldn't be in this position in the first place,
6 would she, because you wouldn't have given her
7 Tertroxin? But what would you have done in March?

8 A. Three-quarters of an hour heart beating during alcohol,
9 I heard that she had such an episode a long time before
10 also. When you have too much thyroid hormone your heart
11 is pounding all the time: at night, during the day, each
12 moment you sit, each moment you lie down you hear it
13 harder. So it's a very clear symptom. It's not
14 three-quarters of an hour, that's not a symptom of
15 overdosage of thyroxine hormones. It's tachycardia all
16 the time.

17 Q. So are you saying, effectively, you would have dismissed
18 this three-quarters of an hour thudding heart as
19 something quite irrelevant to the T4 and the T3 you were
20 giving her?

21 A. If it happens once and I knew that it happened before
22 I still would investigate further what would be the
23 cause.

24 Q. Right.

25 A. Too much coffee intake, alcohol intake, others.

1 If I have a satisfying answer, I won't find -- search
2 later, but I will search until I have the answer.

3 Q. Would you have been curious as to what her TSH and her
4 T4 and her T3 were doing?

5 A. All the time. Each time they come at a consultation,
6 yes.

7 Q. And it's easy to find out because you do a blood test,
8 don't you?

9 A. Yes, and in a couple of days you have the answer so
10 I would do it before I see the patient.

11 Q. Without doing a blood test, you wouldn't be writing off
12 to anybody, I suggest, suggesting that this patient was
13 still hypothyroid?

14 A. Well, what I see on the next page is pulse of 52 per
15 minute.

16 Q. Yes.

17 A. I don't have much more information. I do have
18 information that she's feeling better and stopped
19 antidepressants but can be emotional and shaky, having
20 hassle from Job Centre. In people in chronic stress
21 situations I do watch out with increasing the dose.
22 But still 52 per minute is very, very slow; it's almost
23 pathognomonic of low thyroid function. This is the
24 major hormone that determines heart rate. That's why
25 we have to be careful with it.

1 Q. Low diet function. Is that right?

2 A. What?

3 Q. What did you just say, "low diet function"?

4 A. Low thyroid function.

5 Q. I'm sorry.

6 A. 52 per minute. And don't forget that thyroid hormones
7 improve heart arrhythmia. There are references on that.
8 The typical symptom, when you have a heart rate problem
9 caused by low thyroid function, is irregular heart,
10 extra systoles, and that is improved with thyroid
11 hormone. So if the palpitations were slow palpitations,
12 it means not a quick rhythm, it's typical for low
13 thyroid function.

14 Q. But given that your last TSH was below 0.1, again this
15 is the second consultation, you have seen her since that
16 date, you would not, I suggest, have given her more
17 thyroxine or Tertroxin without blood --

18 A. But all these things are theoretical.

19 Q. Is that right?

20 A. It's so clear for me that the chance is very high that
21 it's caused by taking the thyroid hormones before.
22 I would really ask for another blood test. If it
23 happens twice like this and the patient really says to
24 me, "This time I did it correctly", I would watch out.

25 Q. You would have taken blood, wouldn't you?

1 A. I would, yes.

2 Q. Right. Before allowing this patient to continue with
3 that medication, you would want to find out what was
4 happening, wouldn't you?

5 A. If I'm sure, yes, I would. I would say, "Wait for the
6 blood test", it doesn't take much time to have results,
7 and then we decide.

8 Q. In fact, July of 2004, she gets another prescription for
9 150 micrograms of thyroxine for three months. We have
10 that at page 28 of the bundle. Again, no blood test and
11 on it went. I ought to ask you about that. Can I take
12 it from your previous answers you wouldn't have been
13 giving her that prescription either, would you, without
14 a further blood test?

15 A. I'm looking at the dates of the blood test. So what
16 I only have here is a blood test in September and of
17 November, after the one in December.

18 Q. Yes, exactly.

19 A. It's difficult to tell if it's accurate or not because
20 I do have patients I see every nine months, they have
21 one blood test every nine months. So it's a little
22 difficult, but I would have done a test. If I'm
23 completely sure that the patient had taken the thyroid
24 hormones before the blood test and that falsified, and
25 she's clinically clearly not overdosed, has no

1 palpitations, I might have not asked again the test.

2 Q. But if you --

3 A. I have not golden rules, but generally I try to be quite
4 strict. I don't have so much the problems because most
5 of the patients know very well what to do and we give
6 a paper with the information on on how to do the blood
7 test.

8 Q. I don't want you to be here forever, as it were, but the
9 question was: in July 2004 you wouldn't have given this
10 patient more thyroxine without a blood test, would you?

11 A. In a consultation?

12 Q. In fact there was no consultation, it was just
13 a prescription, I think. Page 28.

14 A. It's difficult to tell because I probably would have had
15 her on the phone if there was no consultation and if she
16 really marks that she had a lot of -- I would ask all
17 the list of symptoms of low thyroid function. I would
18 have increased the dose, it could have been possible.
19 But of course the patient is well-informed to the signs
20 she has, she has a too high dose and is informed to
21 telephone back two or three weeks later -- so there's
22 a safety zone. I cannot answer you 100 per cent, but
23 what I can say to you is that generally it will be done
24 that the safety is guaranteed of the patient.

25 Q. Dr Hertoghe, are you really acting as an independent

1 expert here?

2 A. I am. I'm talking about if I was the person. What you
3 want to have as information is: is there black and
4 white? And I'm explaining that in consultation we have
5 to adapt the treatment to the patient. For some
6 patients it is a stress to have a blood test and there's
7 so many signs at clinical examination, or, when we
8 interview the patient, that there's hypothyroidism, that
9 a slight increase in dose may be acceptable.

10 And this is the thing I do, so if you ask my advice,
11 I don't care about Dr Skinner, I just saw him twice,
12 once at the congress, and here. What I care about is
13 good medicine and I'm explaining to you that good
14 medicine is not the dogmatic medicine, it's the medicine
15 adapted to the patient.

16 Q. Good medicine would have required you to find out
17 what was happening with this patient's blood and not
18 continue his prescriptions time and time again?
19 That would have been good medicine.

20 A. Certainly not with blood tests. You do have to have
21 a blood test one(?) time, I'm sure about that.

22 Q. Can we just look at what happens when this patient comes
23 off thyroxine. We know she was reducing it in August of
24 2004 and that she was off thyroxine, we're told, on
25 14th October 2004. Yes?

1 A. Yes.

2 Q. If you just accept that from me, I can give you the page
3 reference if you want.

4 A. I think it's correct, yes.

5 Q. By 11th November 2004 her TSH is 2.4 and her T4 was
6 13.5. By 9th February 2005 her TSH was 2.8 and her T4
7 was 16.6. So she was back to the levels, very close to
8 the levels, I suggest, which she had been at before she
9 ever took thyroxine two years before, two and a half
10 years before?

11 A. Yes.

12 Q. Does that tell you anything about whether there was
13 anything wrong with this woman's thyroid?

14 A. But back to the same levels, not necessarily better.
15 You said yourself 2.8, which is still in this grey zone
16 where some people with complaints should be treated,
17 others that do not have complaints should not be
18 treated.

19 Q. Let me move to patient C.

20 THE CHAIRMAN: Mr Kark, just to say that the Panel Secretary
21 would like to stop at 4.45 so that she can try the video
22 link.

23 MR KARK: Right.

24 THE CHAIRMAN: Sorry.

25 MR KARK: I was hoping to finish, but it doesn't look as

1 though I will, I'm afraid.

2 THE CHAIRMAN: Press on and you might.

3 MR KARK: Turn to Patient C, please. Obviously we need to

4 turn up the right tab, which is tab 6. She had her

5 first consultation with Dr Skinner on 6th March 2004.

6 A. Which page is that?

7 Q. It's right at the beginning behind tab 6.

8 A. Okay.

9 Q. So just cast your mind over that. First consultation

10 with Dr Skinner, we don't know from the notes what the

11 prescription was. We know that he took a blood test and

12 he started this lady on apparently a low dose of

13 thyroxine. We know that her TSH, as reflected by that

14 blood test, was 2.2, and her T4 was 11.6. TSH 2.2.

15 Again, same question, I'm afraid. No

16 endocrinologist, I suggest, in this country, in America,

17 or in your country, is likely to have treated this woman

18 with thyroxine?

19 A. Almost, no.

20 Q. Second consultation with Dr Skinner. She was by then

21 taking thyroxine and Tertroxin. I'm sorry, she was

22 taking thyroxine and then there was a prescription for

23 Tertroxin. We can see that that consultation was

24 8th May. The patient had put her own dose up to

25 200 micrograms. She was feeling slightly better but

1 marginally tired. Is that the maximum dose according to
2 the BNF, 200?

3 A. Don't you have that in your book there? The doses that
4 the BNF stated were between 100 and 200 as the regular
5 dose, but I don't think there's a maximum.
6 For instance, Professor Heineman was one of the great
7 thyroidologists, Professor Heineman from the Netherlands
8 takes himself 300 micrograms. He's one of the big
9 authorities.

10 Q. Yes, 100 to 200 daily, normal dose according to the BNF.
11 We know that she was then put on to 150 micrograms of
12 thyroxine and 20 of Tertroxin. That happened in May.
13 There was no blood test at that time, but there had been
14 a blood test back in March 2004. The third consultation
15 with Dr Skinner was on 7th August and her prescription
16 was repeated at 150 micrograms and 20 micrograms plus
17 B12, and blood seems to have been taken.

18 The TSH, as reflected by that blood test in August
19 of 2004, and we have the lab report at page 10 if anyone
20 wants to have a look at it, was down to -- well, it was
21 unrecordable. Less than 0.1, we heard, meant
22 unrecordable. Her T4 was well over the reference range
23 at 25.5. Her T3 was 8.9. How would you describe those
24 levels if they're accurate?

25 A. Hyperthyroidism.

1 Q. Hyperthyroidism?

2 A. Excess of thyroid hormones.

3 Q. You are presuming, for the purposes of your report, that
4 this was another bad blood test?

5 A. Based on the fact that there was no thyrotoxicity, if
6 the report of Dr Skinner is correct and based on the
7 physical signs of 64 per minute of blood pulse.
8 You don't have that with these lab tests. I don't see
9 that, when I have patients like that and they have done
10 adequately the blood test, I don't have this sort of
11 hypo or euthyroid situation.

12 Q. But presuming for a moment that Dr Skinner has some
13 experience in taking blood tests with patients of his
14 who are on thyroxine, and this was one of his blood
15 tests so he ought perhaps at least to be an expert in
16 this area, you would expect this blood test to be
17 accurate, wouldn't you?

18 A. If it is, yes.

19 Q. If it's accurate, you described it --

20 A. I don't have this information and I doubt that
21 Dr Skinner has proposed to his patients, and it's really
22 serious what I say, it's really honest.

23 Q. You would regard this blood test as revealing this
24 patient to be hyperthyroid?

25 A. If it was in accurate conditions this would be

1 hyperthyroid because I'm almost sure that we would see
2 clinical signs of excess thyroid hormones also. Both
3 hormones are higher and the TSH is suppressed, so this
4 is hyperthyroidism.

5 Q. Would you warn the patient of what was happening, given
6 that this was a patient who had in the past put her own
7 dose up?

8 A. Yes.

9 Q. Would you make it --

10 A. I would say you have to stop for one or two days and
11 then go back at a lower dose. That would be my reaction
12 in the hypothesis, because it's not confirmed by the
13 clinical situation, that the blood test was done
14 accurately.

15 Q. But you would want to make it clear to the patient,
16 wouldn't you, that from the blood test she was
17 hyperthyroid and it would appear she may be taking too
18 much?

19 A. Yes.

20 Q. And that she ought to cut down?

21 A. Yes.

22 Q. You wouldn't write to that patient, "Here are your
23 request thyroid chemistry and cortisol, which indicate
24 that the levels are a little on the high side, but if
25 you're not feeling any adverse effects then you should

1 stay on the same dose until I see you next"?

2 A. No, I wouldn't write it with this, but the fact that the
3 symptoms were too low, I would probably have phoned
4 the patient at that moment and asked the patient if she
5 was not feeling symptoms of overdose. I would go more
6 to roughly around the list before writing that.

7 Q. There was another blood test. You see, you've rather
8 presumed for the purposes of your report that the August
9 blood test taken by Dr Skinner was duff, as it were.
10 You understand what I mean? It wasn't good because she
11 had just recently taken a pill. But there was another
12 blood test in September, 24th September 2004, and that
13 TSH -- this is in the patient notes, tab 5, page 1, this
14 TSH, I've recorded it as 0.01. Let me just check.

15 A. 0.01, no? I think it is so,.

16 Q. 24th September 2004. Yes, 0.01, thank you. That again
17 is just negligible, isn't it?

18 A. So what I said here is that there's still a hypothesis
19 here that she did the blood test in adequate conditions
20 because you see that the T4 is lower, but the first
21 choice would still be she took it before the blood test.

22 Q. So that is your first choice. So August, the blood test
23 is wrong, September the blood test is wrong. But
24 actually they went and did another blood test in October
25 and we have that at 5/1A. The TSH was still 0.01

1 so August and September and October, you got
2 a negligible TSH reading, for each of those --

3 A. It's unacceptable to have three times in a row a low
4 TSH. But what I feel here, when I listen to the
5 endocrinologist and I see the reports of Dr Skinner and
6 see what the GPs do, they never think about that.
7 I never heard it mentioned. It's basic guideline not to
8 take the thyroid hormones before the blood test so
9 I presume they just take the blood test when the patient
10 comes by, whatever the patient has done, but they don't
11 pay attention to that.

12 Q. Is that on the basis that, like the endocrinologists in
13 this country you don't think very much of, you don't
14 think very much of the GPs either?

15 A. I would say when I hear that and that nobody pays
16 attention, I think there's a little problem at least
17 in the (inaudible word).

18 Q. And you're saying --

19 A. Because in my experience when a patient is hypothyroid
20 or euthyroid and she has this sort of list, it's almost
21 always that she took the blood test before -- the
22 thyroid hormones before medication.

23 Q. So you are prepared to say that in relation to
24 the August blood tests, the September blood tests, and
25 the October blood tests, we can set them to one side

1 because they all must have been taken wrong?

2 A. I cannot evaluate correctly based on these lab tests.

3 Q. Shall we imagine for a moment that they're right, that

4 they actually do reflect the values.

5 A. If they're right, the first time it is overdosed, the

6 second time it depends, and the third time you said it

7 was also 0.01. Did you have a thyroid hormone or not?

8 Q. 5/1A, and the T4 is 15. Now, this is after a note that

9 the patient had decided to stop treatment, so let me

10 just draw your attention to this. Tab 5, page 1A, this

11 is 15th October 2004. So does that look to you, given

12 your experience, that the patient actually has stopped

13 taking her T4, so her T4 has come down but the pituitary

14 hasn't quite yet started producing the right amount of

15 TSH?

16 A. My impression is that she was still taking the

17 medication.

18 Q. Why has her T4 come down so much?

19 A. Well, this sort of blood test has two possibilities:

20 either she took the thyroid medication before, then she

21 has a suppressing of TSH. Either she didn't take it

22 before.

23 Q. Then why is the TSH still suppressed?

24 A. So there's a small little fraction, like I said, of my

25 patients that have with treatment -- are clinically

1 normal and have a suppressed TSH because their pituitary
2 gland fails, not only the thyroid gland fails. So when
3 they get the thyroid hormones, they have -- but it's
4 a small fraction, it's not all the patients.

5 Q. I think we can exclude this patient because we know her
6 TSH in March 2004 was 2.2 and her TSH, in fact the
7 following TSH in February 2005 had recovered to 2.4.

8 A. Yes.

9 Q. So she's not going to be one of those that her pituitary
10 is so sick she's not producing TSH, is she? So what's
11 the alternative?

12 A. There are certain patients that, when you give thyroid
13 treatment, undergo a greater decline than others.
14 That's why, when we see a study, it's at average.
15 But there are people who, with the same dose of
16 thyroxine, will respond much more or much easier with
17 the suppression; others that will even have just
18 a slight inhibition, but not very notable. So there are
19 different changes. It's not so easy. So what I'm
20 trying to do is to be here a honest person, to give you
21 honest answers, and I'm showing that medicine is not
22 that easy. You need to take the whole clinical picture
23 in order to be able to analyse it correctly.

24 Q. If these blood tests are right, this woman had been
25 overdosed, she had become hyperthyroid, hadn't she?

1 A. Yes.

2 Q. And when she comes off it, her TSH recovers?

3 A. But without clinical hyperthyroid symptoms, it's very
4 unlikely. But if that was right, she was overdosed, but
5 in my patients I always see signs. I don't know why
6 English patients would be different.

7 MR KARK: I'm about to turn to Patient D. I think that is
8 a convenient time.

9 MR JENKINS: Before that happens, I wonder if Mr Kark is
10 going to ask any questions about Armour that this
11 patient said she was taking at the end of August
12 and that the GP record on page 1, tab 5, suggests she
13 was on.

14 MR KARK: Well, not at the moment. I might ask that on
15 Monday. But if that is a convenient moment, I don't
16 want to rush through just to get it finished.

17 THE CHAIRMAN: Thank you, Mr Kark. Thank you, Dr Hertoghe.
18 I think this is an appropriate moment to stop. I would
19 just like to make clear that I'm uneasy about the video
20 link and I think it would be preferable if you were here
21 if that was possible. I do understand the difficulties
22 so I shall leave it in your hands. We will meet here at
23 9.30 on Monday morning and will be in touch one way or
24 the other.

25 MR KARK: I was just wondering, given the problems with

1 the video link, if it would be sensible to make it 10.00
2 to give everybody an opportunity to test it on Monday
3 morning.

4 THE CHAIRMAN: You are right, 10 o'clock on Monday morning.

5 A. It might be a little problem for me to be here on Monday
6 morning, maybe not. Is it possible eventually to come
7 a later day, the Tuesday or the Wednesday, or not?

8 THE CHAIRMAN: I think, if you didn't come and do the video
9 link, and if that doesn't work, then we will obviously
10 have to do other arrangements anyway, so that would be
11 Tuesday or Wednesday.

12 A. Okay.

13 MR JENKINS: We are not due to be here on Wednesday.

14 THE CHAIRMAN: It will be Tuesday. We will make every
15 effort to ensure the video link does work. We are
16 likely to know very soon whether it's likely to work or
17 not.

18 MR JENKINS: Can we have permission to speak to Dr Hertoghe
19 about travel arrangements and other arrangements to
20 ensure that you're able to see him on Monday?

21 THE CHAIRMAN: Dr Hertoghe, you know you're still under
22 oath. Yes, of course one must give you leave to discuss
23 the travel arrangements. Thank you.

24 (4.45 pm)

25 (The hearing adjourned until 10.00 am

on Monday 16th July 2007)

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