

1 IN THE UNITED STATES DISTRICT COURT  
 2 NORTHERN DISTRICT OF ILLINOIS  
 3 EASTERN DIVISION

3 WENDY B. DOLIN Individually and as  
 4 Independent Executor of the Estate of  
 5 STEWART DOLIN, deceased,

6 Plaintiff,

7 vs.

8 SMITHKLINE BEECHAM CORPORATION  
 9 D/B/A GLAXOSMITHKLINE, a Pennsylvania  
 10 Corporation,

11 Defendant.

) No. 12 CV 6403

) Chicago, Illinois

) March 15, 2017

) 9:15 o'clock a.m.

12 VOLUME 2A  
 13 TRANSCRIPT OF PROCEEDINGS  
 14 BEFORE THE HONORABLE WILLIAM T. HART

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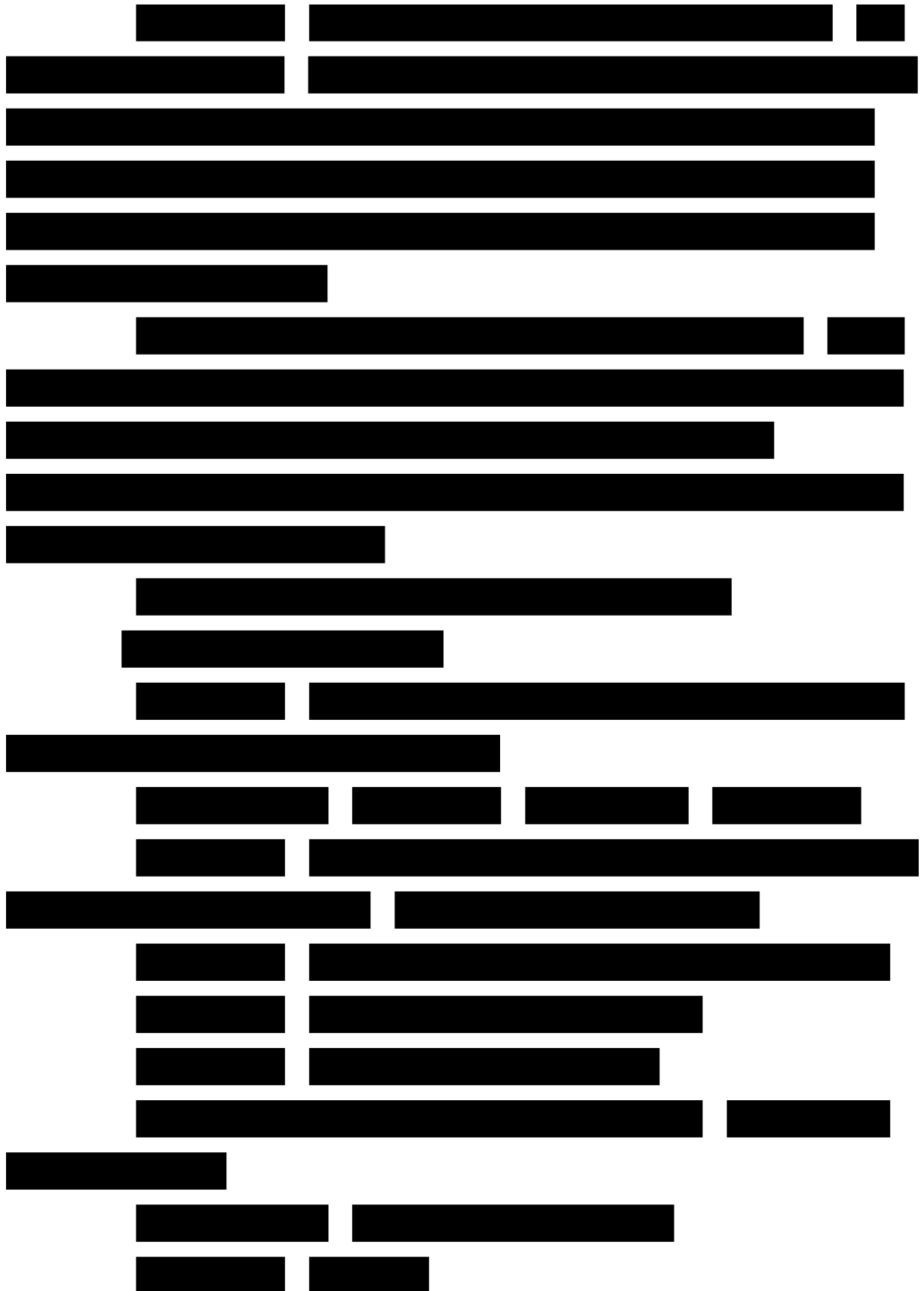
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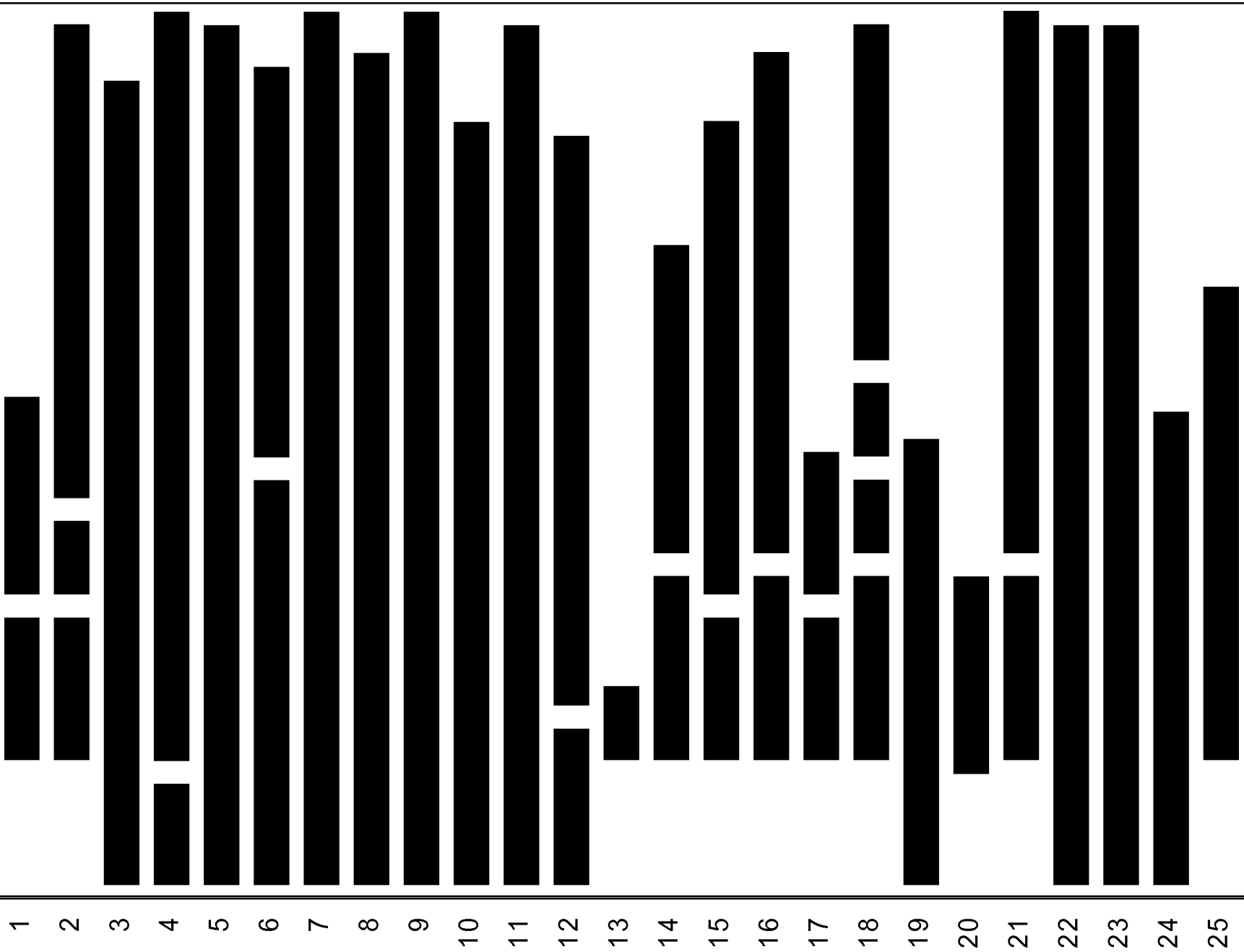
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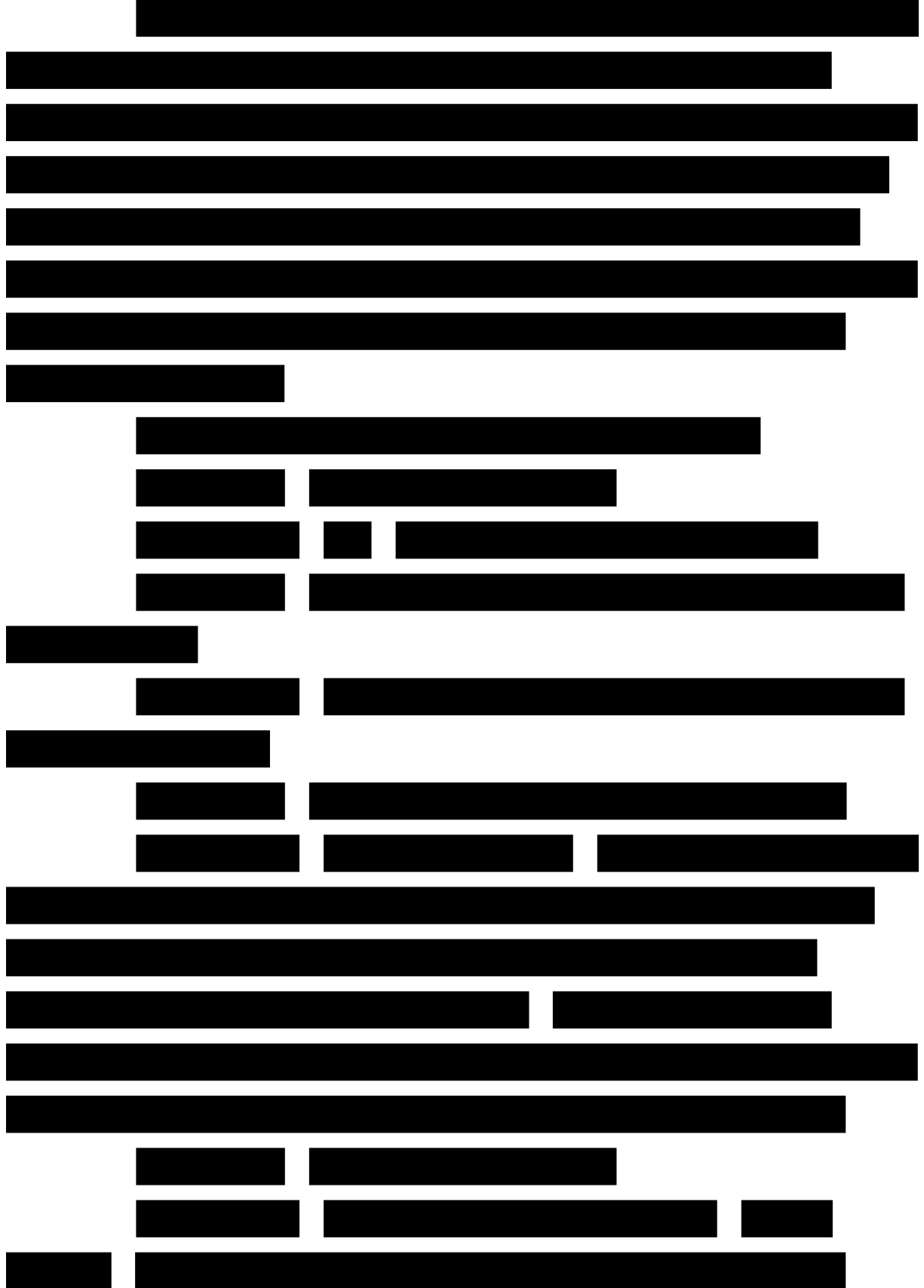
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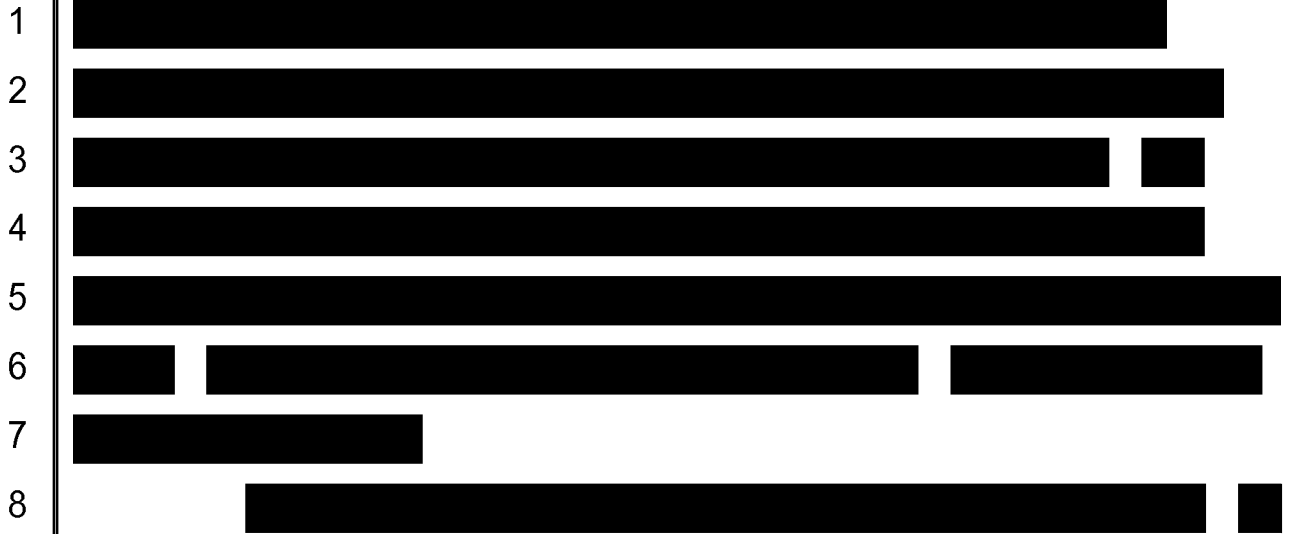
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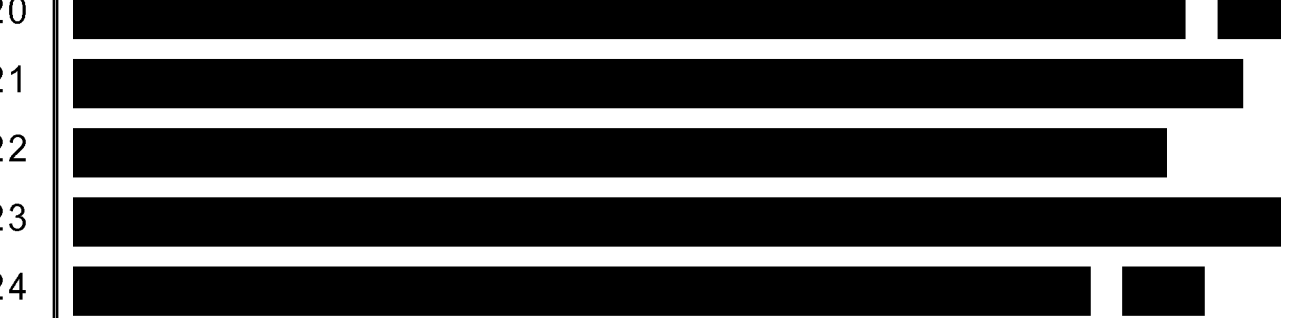
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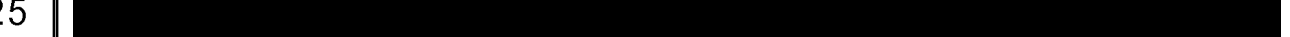
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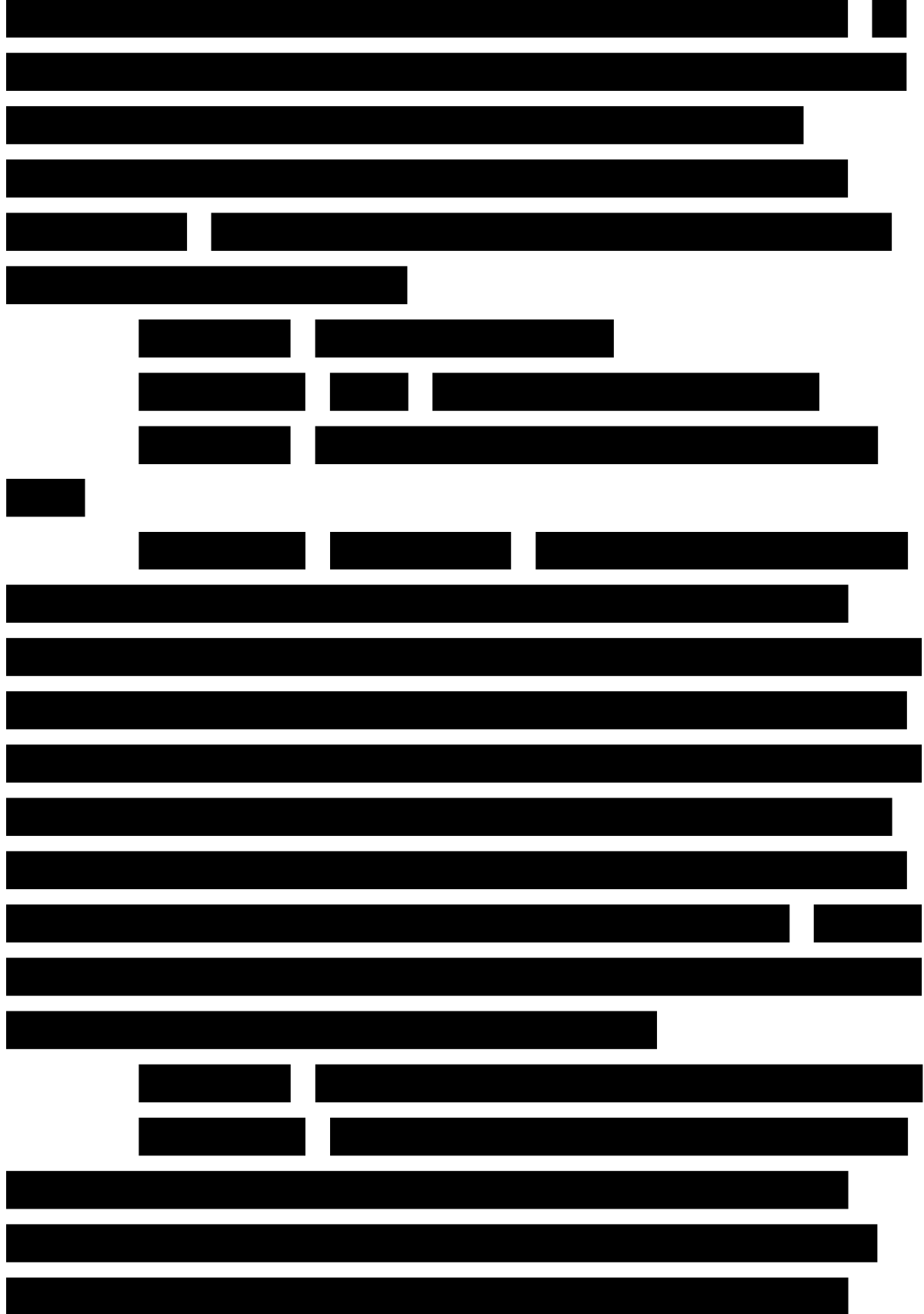
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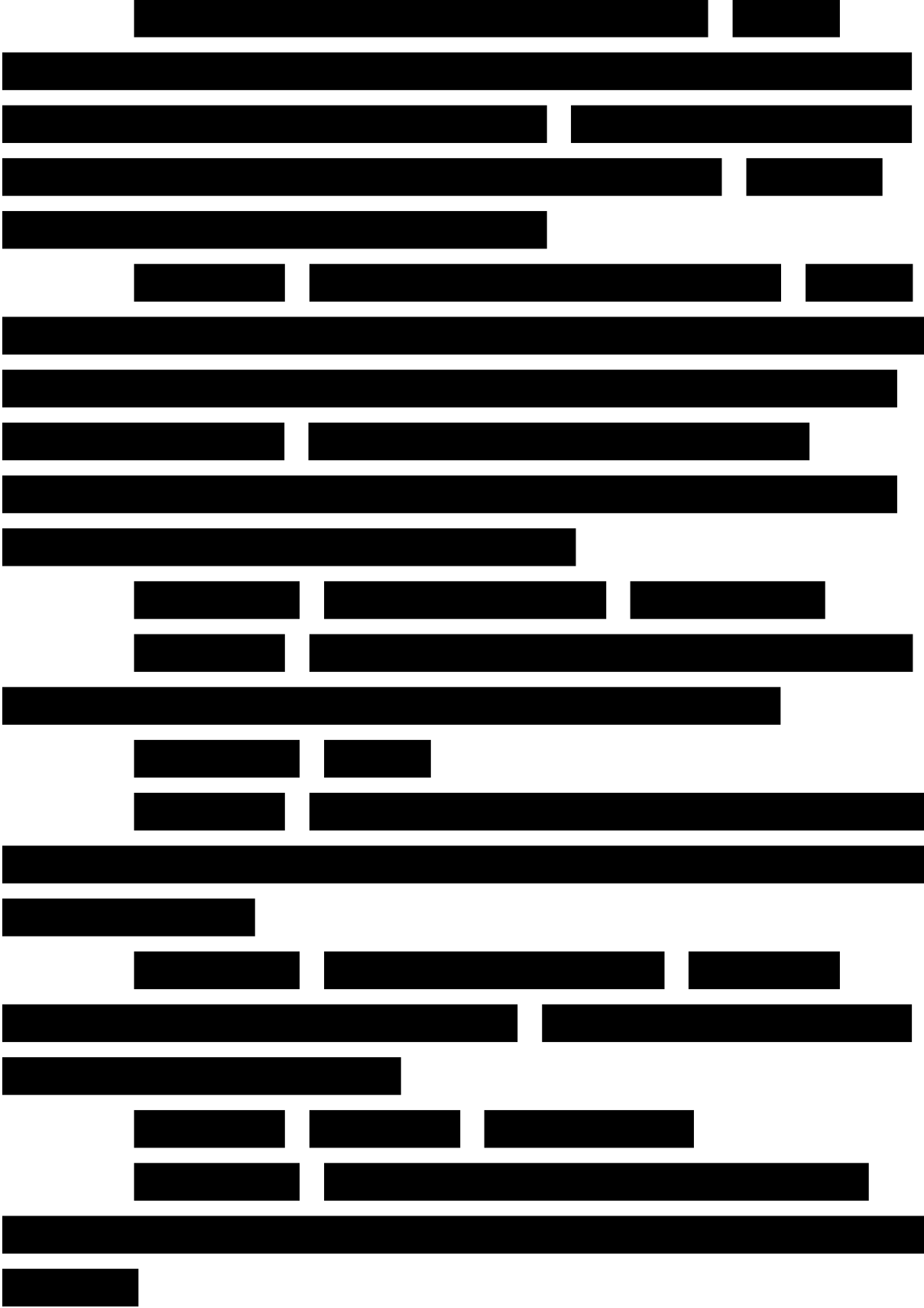
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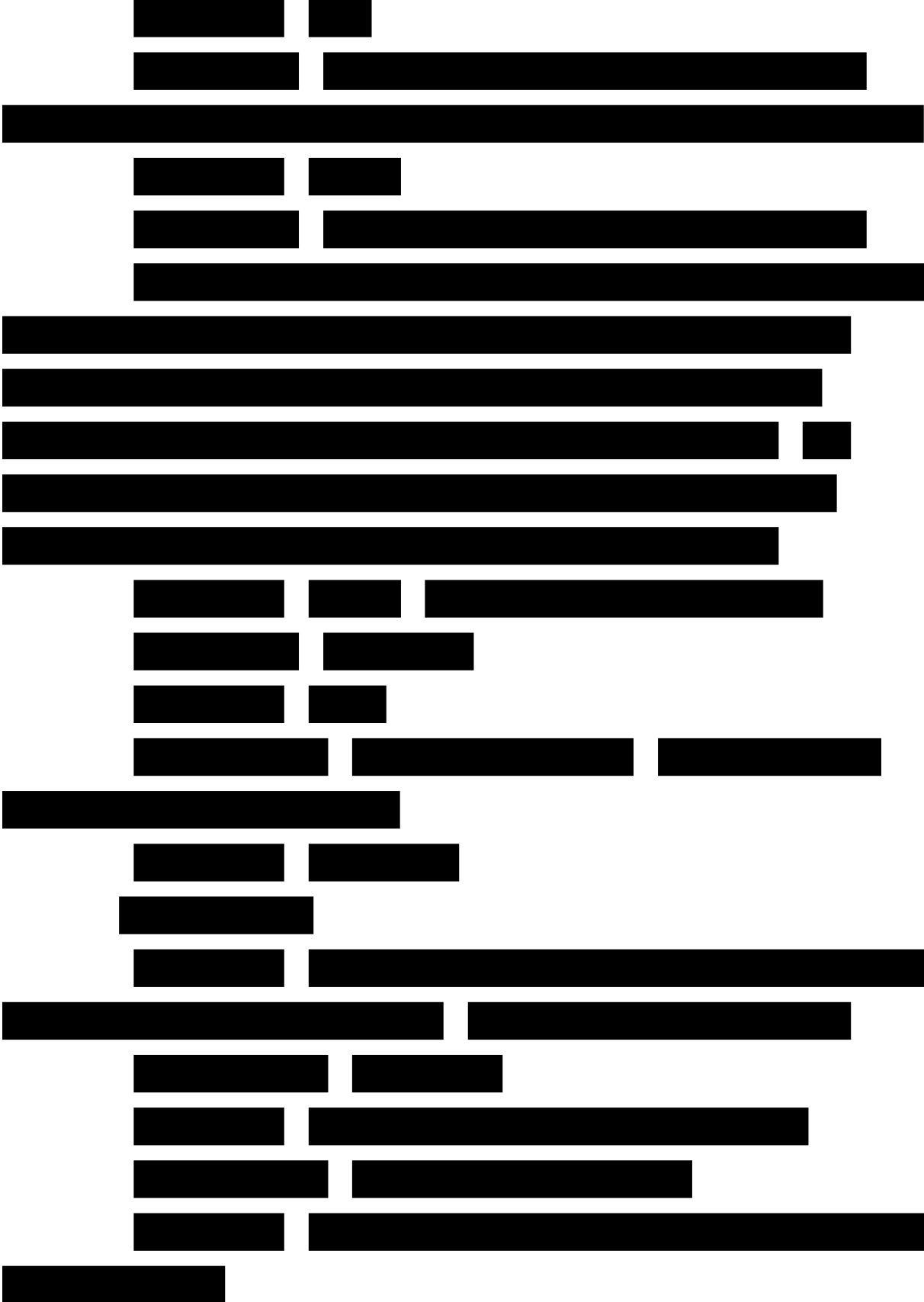
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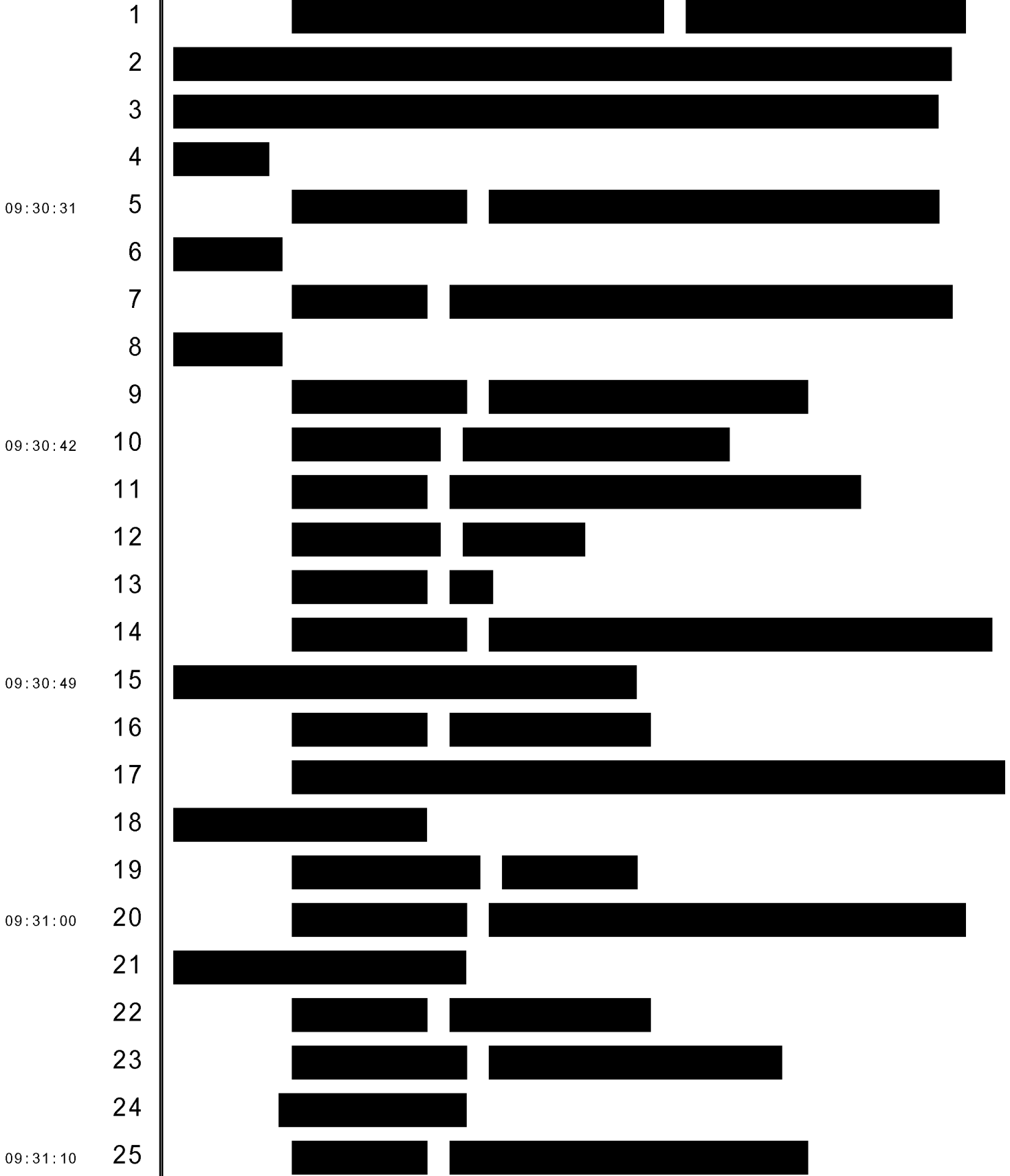


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(The following proceedings were had in the presence of the jury in open court:)

THE COURT: All right. Thank you very much, ladies and gentlemen. Please be seated and we will resume.

(Brief pause).

THE COURT: At this point in time, ladies and gentlemen, we will hear the conclusion of defense opening statement.

Mr. Bayman, you may proceed, sir.

MR. BAYMAN: Thank you, Your Honor.

OPENING STATEMENT ON BEHALF OF DEFENDANT (resumed)

MR. BAYMAN: Good morning, ladies and gentlemen. Just a little bit to cover this morning.

When we left off yesterday, we were talking about the third question, did GSK communicate with the FDA and doctors about the possible risks of Paxil.

And I had told you, when I left off, that in early 2005 GSK had -- the FDA required GSK to revise the Paxil label slightly so that the language more closely resembled language

1 put in a black box warning for all antidepressants regarding  
2 concern of suicidality with patients under age 18.

3           Regarding adult patients, the FDA approved class  
4 labeling language starting in January of 2005. And that  
5 language is in front of you. The label stated:

6           "... it is also unknown whether the suicidality  
7 risk extends to adults. And a causal link  
8 between the emergence of such symptoms and  
9 either the worsening of depression and/or the  
10 emergence of suicidal impulses has not been  
11 established."

12           Starting in January of 2005, GSK changed the Paxil  
13 label in another way. It changed the label to add a separate  
14 precaution entitled "akathisia." And that precaution said:

15           "... the use of Paroxetine or other SSRIs has  
16 been associated with the development of  
17 akathisia, which is characterized by an inner  
18 sense of restlessness and psychomotor agitation  
19 such as an inability to sit or stand still  
20 usually associated with subjective distress."

21           Now, akathisia is a word you probably haven't heard  
22 about before in this trial, but what you'll hear during the  
23 course of the trial is that it's a medical condition that  
24 compels people to be in constant motion. It can't be turned on  
25 or off.



1 This language explaining akathisia that you see on  
2 this slide was put in the label over 5 years before Mr. Dolin  
3 took his own life in 2010. And this is particularly important  
4 because the only plaintiff's expert who will tell you that  
5 Paroxetine caused Mr. Dolin to commit suicide is Dr. Joseph  
6 Glenmullen, an expert that Mr. Rapaport referred to yesterday.

09:37:13

7 Dr. Glenmullen has testified that Paroxetine caused  
8 akathisia in Mr. Dolin which caused him to commit suicide.

9 And I was surprised to hear that Mr. Rapaport didn't  
10 mention the word akathisia, because plaintiff's complaint in  
11 this lawsuit alleges that Paroxetine caused Mr. Dolin to have  
12 akathisia which caused him to commit suicide. And

09:37:35

13 Dr. Glenmullen has testified multiple times in his deposition  
14 in this lawsuit that this was his claim of how Mr. Dolin's  
15 Paroxetine caused akathisia which then led him to commit  
16 suicide, but there will be no placebo-controlled trials that  
17 show that Paxil or Paroxetine causes akathisia which then  
18 causes suicidal thoughts or behavior.

09:37:53

19 Now, GSK sent out a dear-healthcare provider letter  
20 about this labeling change in February of 2005. And according  
21 to that February 2005 letter, the new warning also emphasizes  
22 the need for close monitoring of patients especially at the  
23 beginning of therapy.

09:38:19

24 GSK also told doctors about the changes to the  
25 precaution section, including the new section titled

09:38:37

1 "akathisia" and a subsection addressing clinical worsening and  
2 suicidal risk and said:

3 "... creating a subsection for revised language  
4 dealing with risk of suicide and the need for  
5 monitoring patients."

6 The evidence will show that Dr. Sachman received this  
7 letter also.

8 Now, as I mentioned yesterday, FDA requested all the  
9 pharmaceutical companies to submit all their adult clinical  
10 trial data related to suicidality in adult patients, the most  
11 comprehensive analysis that had ever been done. And the FDA  
12 wanted the data from placebo-controlled trials.

13 GSK submitted its data, but it also decided to do its  
14 own analysis of the data. And that's the analysis I told you  
15 about yesterday that showed no difference in adult patients  
16 taking Paxil and those taking placebo on the main analysis of  
17 suicidal thoughts or behavior.

18 GSK told the FDA about its analysis in April of 2006  
19 in what was called a briefing document, which you see before  
20 you on the screen. And as you can see, the briefing document  
21 specifically referenced the 11 patients that I mentioned  
22 yesterday and the 6.7 number that Mr. Rapaport kept telling you  
23 about.

24 Well, what else did GSK do with the information about  
25 its finding for adult patients with MDD you might ask. GSK

1 changed the Paxil label per FDA regulations and then submitted  
2 that change for approval by the FDA and shared that change with  
3 doctors.

09:40:24 4 Here's the May 2006 label. In addition to submitting  
5 this data to the FDA and waiting for FDA to approve the label  
6 change, GSK also went ahead and told doctors about this change  
7 in another dear-healthcare provider letter in May of 2006. The  
8 letter stated:

09:40:45 9 "... GSK would like to advise you of important  
10 changes to the clinical worsening and suicide  
11 risk subsection of the warning section in the  
12 Paxil labeling.

13 This letter addressed GSK's 2006 analysis that I  
14 mentioned a minute ago. And this letter told doctors,  
09:41:02 15 importantly, that:

16 "... the higher frequency observed in the  
17 younger adult population across psychiatric  
18 disorders may extend beyond the age of 24."

09:41:18 19 And, in fact, if we compare this statement against  
20 the one sent in the briefing document to the FDA, you can see  
21 that GSK included the same figures and the same information.  
22 And most importantly, ladies and gentlemen, and the evidence  
23 will show that Dr. Sachman also received this letter and knew  
24 about the May 2006 label change before he last prescribed  
09:41:39 25 Paroxetine to Mr. Dolin.

1 Now, I told you yesterday in more detail about the  
2 FDA's 2000 analysis of data submitted from all the  
3 pharmaceutical companies. So what did the FDA do based on its  
4 analysis and the findings from that analysis? FDA made GSK get  
5 rid of the new language that GSK had added in 2006 about its  
6 findings of an increased risk in adult with major depressive  
7 disorder in favor of using the same warning for all the  
8 medications in the same class as it had done previously, the  
9 so-called class labeling that I mentioned yesterday.

10 FDA did this because it had conducted extensive  
11 analyses of the adult data, not just for Paxil but for 11 other  
12 antidepressants also. And it determined what needed to be said  
13 or not said in the labeling, because the FDA controls the  
14 label, ladies and gentlemen. The evidence will show that FDA  
15 didn't reach its decision without first analyzing the Paxil  
16 studies and the studies on the other medications. So let's  
17 look at that labeling.

18 The labeling language that went into effect in 2007,  
19 and remained in effect in 2010 when Mr. Dolin took his own  
20 life, included a black box warning that you see on the screen  
21 today, and that labeling remains in effect today.

22 It noted a concern for pediatric patients and then  
23 stated:

24 "... regarding adults, short-term studies did  
25 not show an increase in the risk of suicidality

09:43:29

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1 with antidepressants compared to placebo in  
2 adults beyond age 24. There was a reduction in  
3 risk with antidepressants compared to placebo in  
4 adults age 65 and older. Depression and certain  
5 other psychiatric disorders are themselves  
6 associated with increases in the risk of  
7 suicide. Patients of all ages who are started  
8 on antidepressant therapy should be monitored  
9 appropriately and observed closely for clinical  
10 worsening, suicidality, or unusual changes in  
11 behavior."

12 And the labeling included the precaution that you see  
13 here about clinical worsening and suicide risk, which again  
14 alerted patients, their families, and their caregivers to be  
15 alert to these concerns.

16 Now, Mr. Rapaport said yesterday that the Paxil label  
17 contains no information about a risk for suicide, but he didn't  
18 show you this label, the Paxil labeling in 2007 and in 2010 and  
19 today continues to address akathisia. The specific side effect  
20 the plaintiff claims led Mr. Dolin motion to commit suicide,  
21 and it goes it in four different places. In the warning  
22 section, under a warning entitled "clinical worsening and  
23 suicide risk." In the specific precaution about "akathisia"  
24 that I mentioned a few minutes ago. In another precaution  
25 section addressing information for patients, "clinical

1 worsening and suicide risk." And finally, among the  
2 post-marketing reports of adverse reactions reported by  
3 patients after the medicine first came on the market.

09:45:07 4 Plaintiff's expert, Dr. Ross, who Mr. Rapaport told  
5 you about yesterday, has testified that GSK should have not  
6 taken the Paxil-specific language that it added in 2006 out of  
7 the label. Ladies and gentlemen, the evidence will show that  
8 the FDA told GSK on four separate occasions that they couldn't  
9 use the Paxil-specific language and that GSK must use class  
09:45:33 10 labeling language, the language which the FDA approved and  
11 required for all medicines in the class to have in their  
12 labels.

13 Mr. Rapaport said yesterday that the 2010 label was  
14 false and misleading, but the evidence will show that the FDA's  
09:45:49 15 approval of the 2010 label means that that label is neither  
16 false nor misleading --

17 MR. RAPOPORT: Your Honor, its argument. He should  
18 stick to the facts.

19 MR. BAYMAN: It's what the evidence will show, Your  
09:46:00 20 Honor.

21 THE COURT: Tell the jury what the evidence will show.  
22 Don't argue.

23 MR. BAYMAN: Mr. Rapaport told you there was nothing  
24 in the label that could've warned Dr. Sachman about a possible  
09:46:11 25 risk of suicide, but given what we reviewed yesterday with the

1 labels and given what we reviewed today with the labels and the  
2 letters, when we look back at our third question the answer is  
3 also yes, GSK communicated with the FDA and doctors about the  
4 possible risks.

09:46:29

5 That bring us to our fourth and final question, was  
6 Mr. Dolin's close friend, Dr. Sachman, aware of the possible  
7 risks of Paxil or Paroxetine. The evidence will show, ladies  
8 and gentlemen, that the answer to that question is also  
9 definitely yes.

09:46:46

10 Mr. Rapaport said yesterday this case is about the  
11 fact that doctors need to be informed. Well, the evidence will  
12 show that Dr. Sachman was informed.

09:47:04

13 Ladies and gentlemen, you will recall the very first  
14 slide that Mr. Rapaport showed you yesterday that said a  
15 prescription drug company is responsible if they don't warn.  
16 And GSK did warn, but that's not the whole story, because what  
17 matters is what Dr. Sachman knew, and not just what he knew  
18 from the Paxil labeling in 2010.

09:47:24

19 You're going to hear from Dr. Sachman in this  
20 courtroom. Mr. Rapaport said yesterday, Dr. Sachman had no  
21 idea about the risks of Paxil and suicide, but previously  
22 Dr. Sachman testified under oath at his deposition, and we will  
23 expect that he will testify here, that he received and knew  
24 about all the changes in the warnings, including about the  
25 possible risk of suicidal thoughts or behavior.

09:47:45

1           You heard some commentary yesterday from Mr. Rapaport  
2 about pharmaceutical companies manufacturing --

3           MR. WISNER: Your Honor, I hate to interrupt again,  
4 but all of this Mr. Rapaport-comparison is argument and he  
5 should talk about facts.

09:48:01

6           THE COURT: Tell us about the evidence, sir.

7           MR. BAYMAN: The evidence will show, ladies and  
8 gentlemen, that with respect to pharmaceutical companies  
9 marketing to general practitioners, Dr. Sachman will testify  
10 that the GSK reps that he interacted with were always  
11 professional and courteous; that he does not remember any  
12 discussions with any GSK sales reps about Paxil; that if there  
13 were any differences between what a sales rep told him about  
14 medicine and what the label said, he would go with what had  
15 been disclosed in the labeling. And the evidence will show  
16 that Dr. Sachman has testified, and will testify, that if he  
17 didn't understand things in the label, he would do his own  
18 research. So that the idea that doctors are somehow held in  
19 concrete based on what pharmaceutical companies say is just not  
20 how the process works, ladies and gentlemen.

09:48:14

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09:48:55

21           Now, you remember the letters that I showed you  
22 yesterday and earlier that GSK sent to doctors across the  
23 country in 2004, 2005 and 2006 about Paxil. Dr. Sachman was  
24 one of the doctors who got each of these letters. Listen  
25 carefully to his testimony. In testimony that he gave, because

09:49:16



1 in testimony he gave before this trial even started Dr. Sachman  
2 said he had a special place on his desk for these very kinds of  
3 letters. He understood the warnings and precautions and he  
4 discussed them with his patients, specifically the Dolins.

09:49:36

5 In fact, Dr. Sachman got each of these letters shortly  
6 before or during the time he prescribed generic Paroxetine for  
7 Mr. Dolin for 13 months, from 2005 to 2006. Dr. Sachman got  
8 GSK's February 2005 letter that added the akathisia precaution  
9 only a matter of months before he started Mr. Dolin on

09:50:00

10 Paroxetine in October of 2005.

11 You will hear how Dr. Sachman knew to be on the  
12 lookout for akathisia because it was described as one of the  
13 possible side effects of taking Paxil or Paroxetine.

09:50:19

14 The evidence will also show that he admitted that he  
15 discussed the information in the GSK February of 2005 letter  
16 with both Mr. Dolin and Mrs. Dolin.

09:50:39

17 The evidence will show that Dr. Sachman knew of the  
18 Paxil-specific information because GSK sent him a letter about  
19 the 2006 label change and Dr. Sachman testified that he  
20 received it and reviewed it.

09:50:59

21 You will hear testimony from Dr. Sachman that he got  
22 the May 2006 dear-healthcare provider letter that had told them  
23 what he needed to know about Paxil and the issue of  
24 suicidality, and also that the increased risk of thoughts or  
25 behavior may go beyond the age of 24. After receiving this

1 letter, Dr. Sachman testified that he most likely discussed  
2 this information in the letter with Mr. Dolin. Don't forget  
3 that this was during the time that Mr. Dolin was still taking  
4 generic Paroxetine as prescribed by Dr. Sachman. And when  
09:51:19 5 Dr. Sachman last prescribed Paroxetine to Mr. Dolin in 2010, he  
6 went over with him the signs and symptoms disclosed in the  
7 Paxil labeling and told him that if he had any problems with  
8 the medication, he should call him.

9 Now, ladies and gentlemen, looking back at the four  
09:51:38 10 questions I've asked you to consider, listen carefully to the  
11 answers to those questions as you hear the evidence in this  
12 case, because you are the ones to decide. We don't think  
13 you'll hear those answers in the plaintiff's case, and we don't  
14 believe the plaintiff can meet her burden of proof.

09:51:56 15 The evidence will show that generic Paroxetine did not  
16 cause Mr. Dolin to make the decision to take his own life and  
17 that the warnings were appropriate.

18 The evidence will show that his behavior did not  
19 change after he took generic Paroxetine, but rather, his  
09:52:11 20 long-standing fears and work stressors, as far back as 2007,  
21 were becoming real in his mind.

22 I will sit down now, ladies and gentlemen, but my last  
23 word is to ask you to keep an open mind and reserve judgment  
24 since the plaintiff gets to go first. The plaintiff is going  
09:52:28 25 to start her case with a witness who is not here to provide you

1 with any information about Mr. Dolin. Some of our evidence  
2 will come in during the plaintiff's case and then we will get  
3 to put on GSK's case. So please keep an open mind.

09:52:44

4 These are difficult facts to hear and you're going to  
5 hear a lot of information over the next few weeks. A lot of it  
6 will be technical and scientific, but a lot of it will simply  
7 allow you to use your common sense. In the end, it's up to you  
8 to decide why Mr. Dolin took his own life.

09:53:00

9 Again, on behalf of GSK, I thank you for your  
10 willingness to take time away from your families and your jobs  
11 and to do the hard work of being jurors.

12 Thank you very much.

13 THE COURT: All right. Thank you, Mr. Bayman.

14 The plaintiff may proceed.

09:53:11

15 MR. RAPOPORT: Thank you, Your Honor.

16 As our first witness, we will call Dr. Pierre Garnier,  
17 and that's going to be by video.

18 THE COURT: By video deposition.

19 (Brief pause)

09:54:47

20 MR. RAPOPORT: Just will take a moment to get that set  
21 up.

22 (Brief pause).

23 MR. RAPAPORT: Your Honor, this should be up in a  
24 moment. It's all been pretested before the trial. They're  
25 just switching wires, to the best of my knowledge.

09:55:01

1 (Brief pause).

2 THE COURT: Can you find some 7-year old kid to come  
3 and fix this?

09:55:59

4 MR. RAPOPORT: Right. I'll call smarter than a fifth  
5 grader.

6 MR. DAVIS: Can we have a sidebar real quick about the  
7 video?

8 THE COURT: You want a sidebar?

9 MR. BAYMAN: Yes. A short sidebar.

09:56:12

10 (Proceedings heard at sidebar on the record.)

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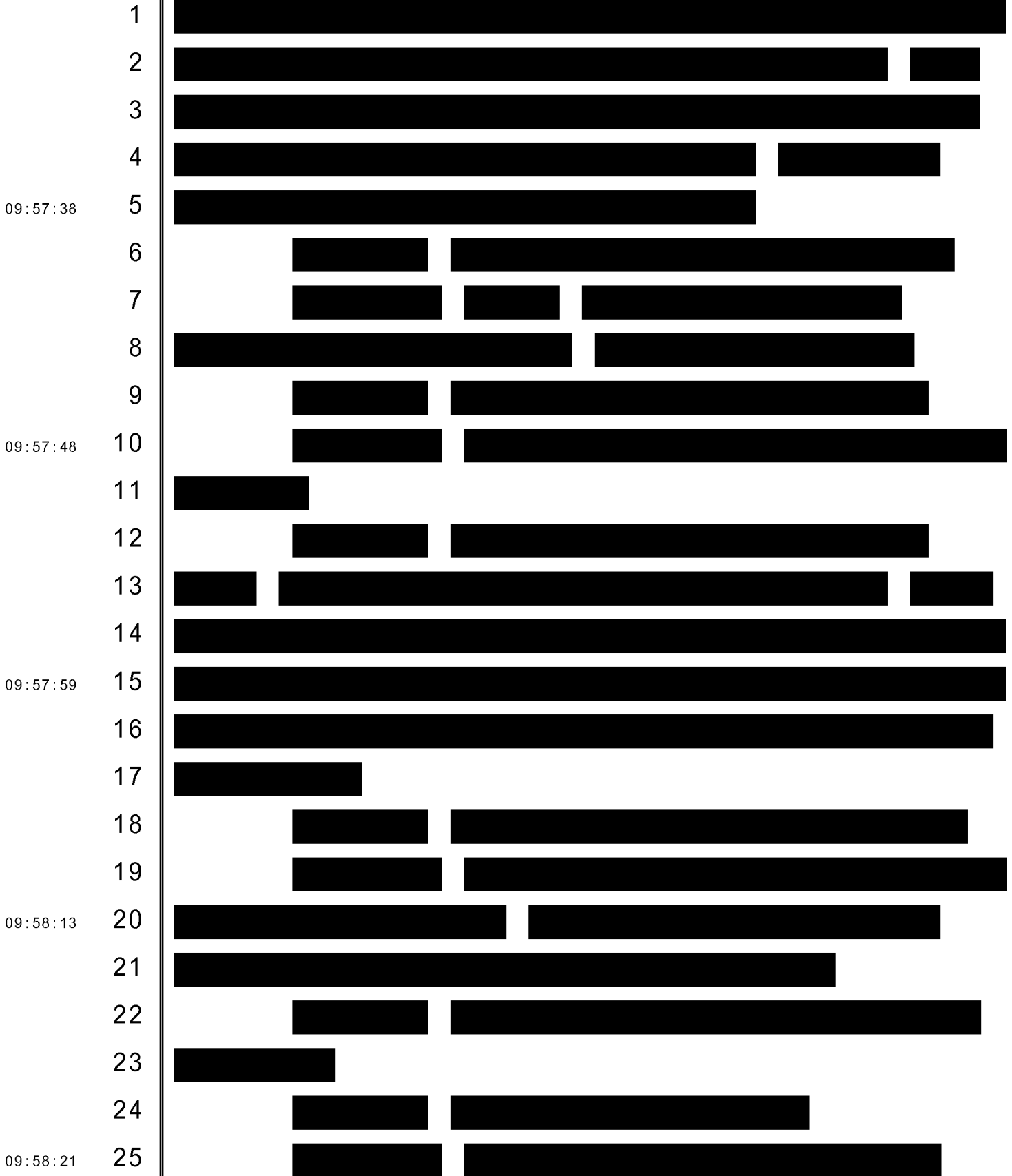
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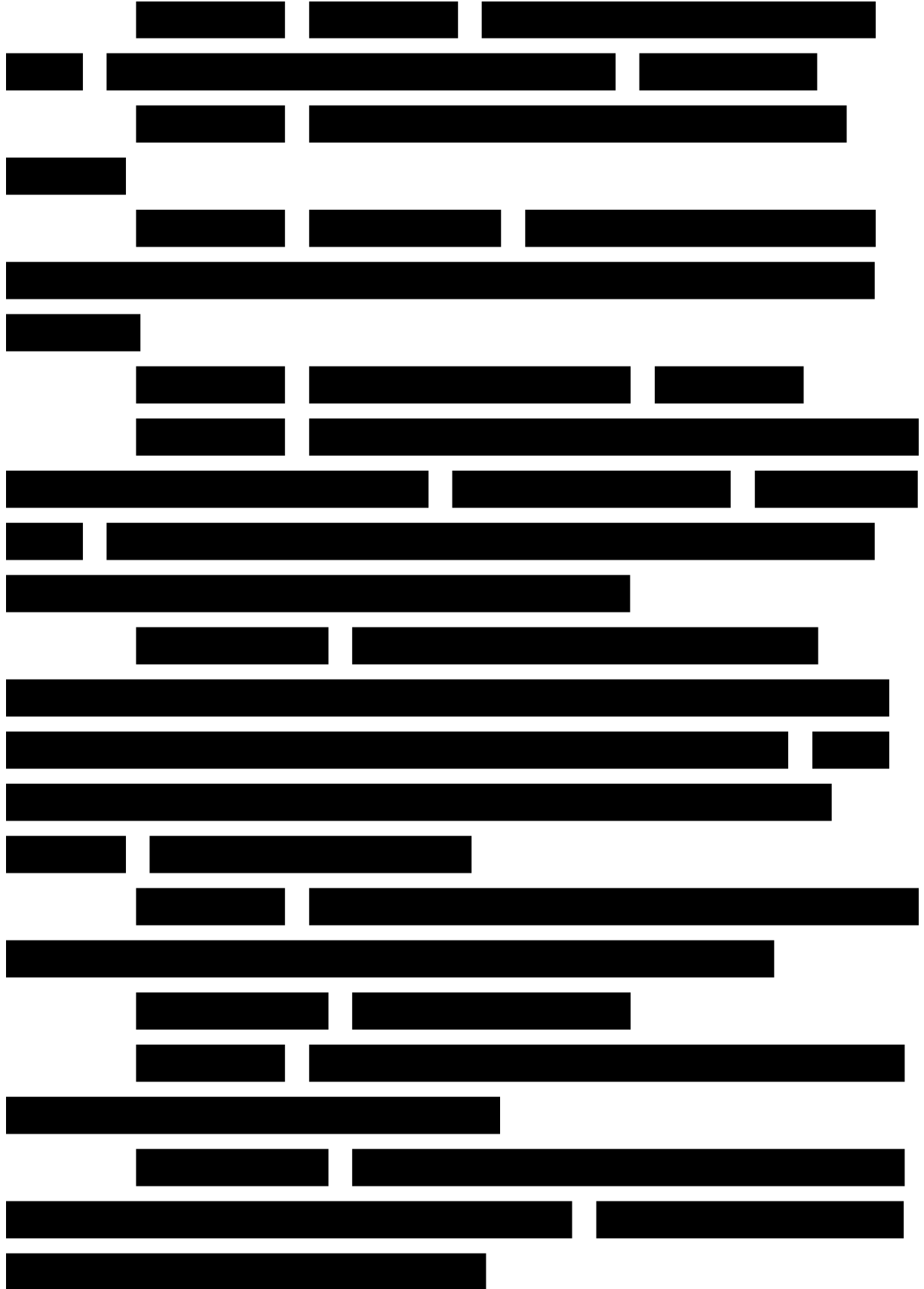
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4 (Proceedings resumed within the hearing of the  
5 jury.)

6 THE COURT: All right. Proceed.

7 (Audiotaped deposition of Pierre Garnier played  
8 in open court).

9 THE COURT: That concludes the proceedings.

10:16:21

10 MR. RAPOPORT: And we can go with another one or  
11 break, whatever you say.

12 THE COURT: All right.

13 MR. RAPOPORT: Ready for the next one?

14 THE COURT: Ready.

10:16:28

15 MR. RAPOPORT: Great, Your Honor. Our next witness is  
16 Dr. Davies.

17 (Audiotaped deposition of John Davies played in  
18 open court).

19 THE COURT: Does that complete the reading?

10:27:59

20 MR. RAPOPORT: That completes that testimony, yes,  
21 Your Honor.

22 THE COURT: Okay. Call your next.

23 MR. RAPOPORT: Our next is Geoffrey Dunbar.

10:28:22

24 I should mention before we begin this, Your Honor, the  
25 run time here is 37 minutes just so you know for case



1 management purposes.

2 THE COURT: All right.

3 (Audiotaped deposition of Geoffrey Dunbar  
4 played in open court) .

11:06:53

5 THE COURT: All right. Ladies and gentlemen, we'll  
6 take about a ten-minute recess break now.

7 You may step into the jury room.

8 (The following proceedings were had out of the  
9 presence of the jury in open court:)

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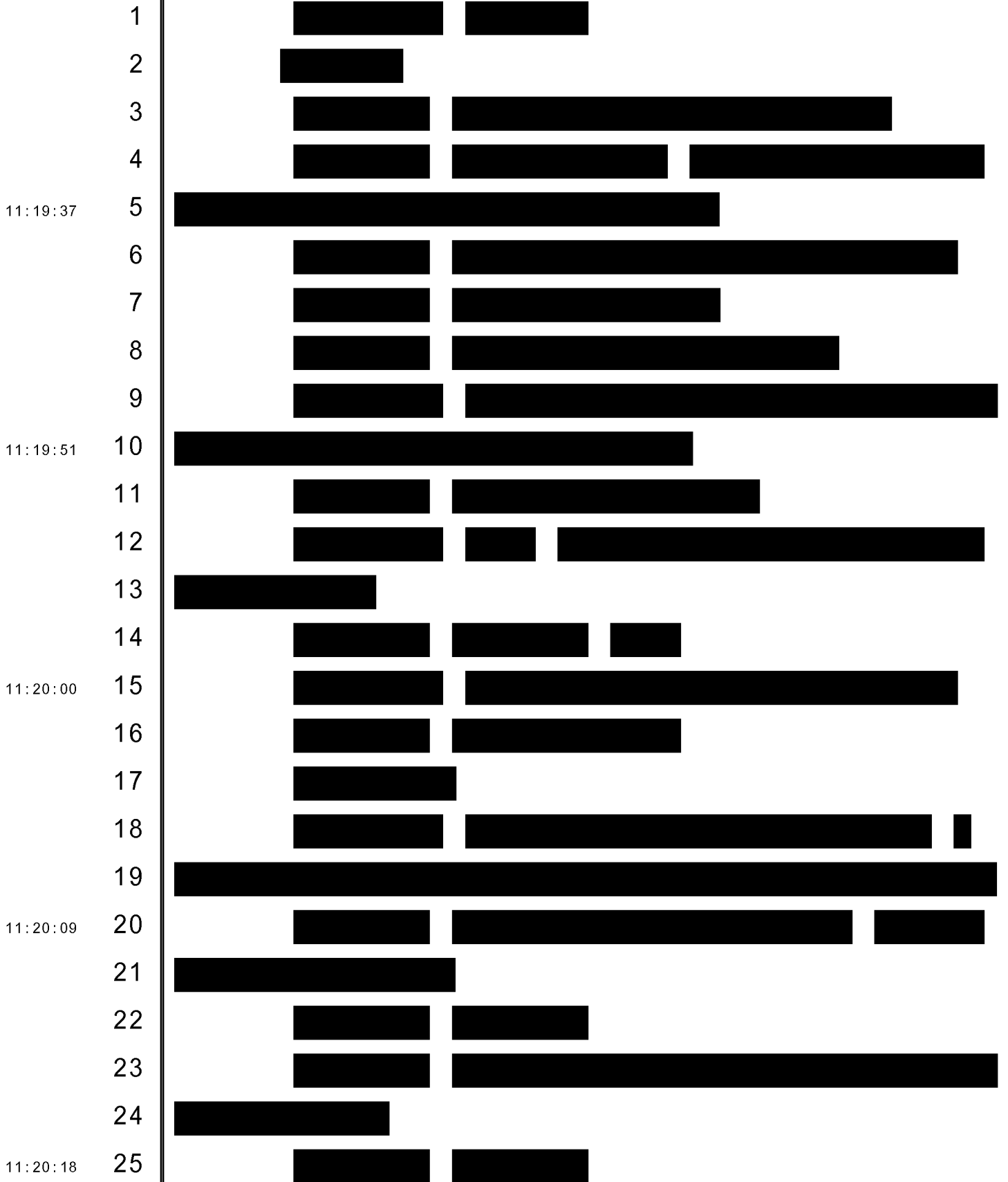
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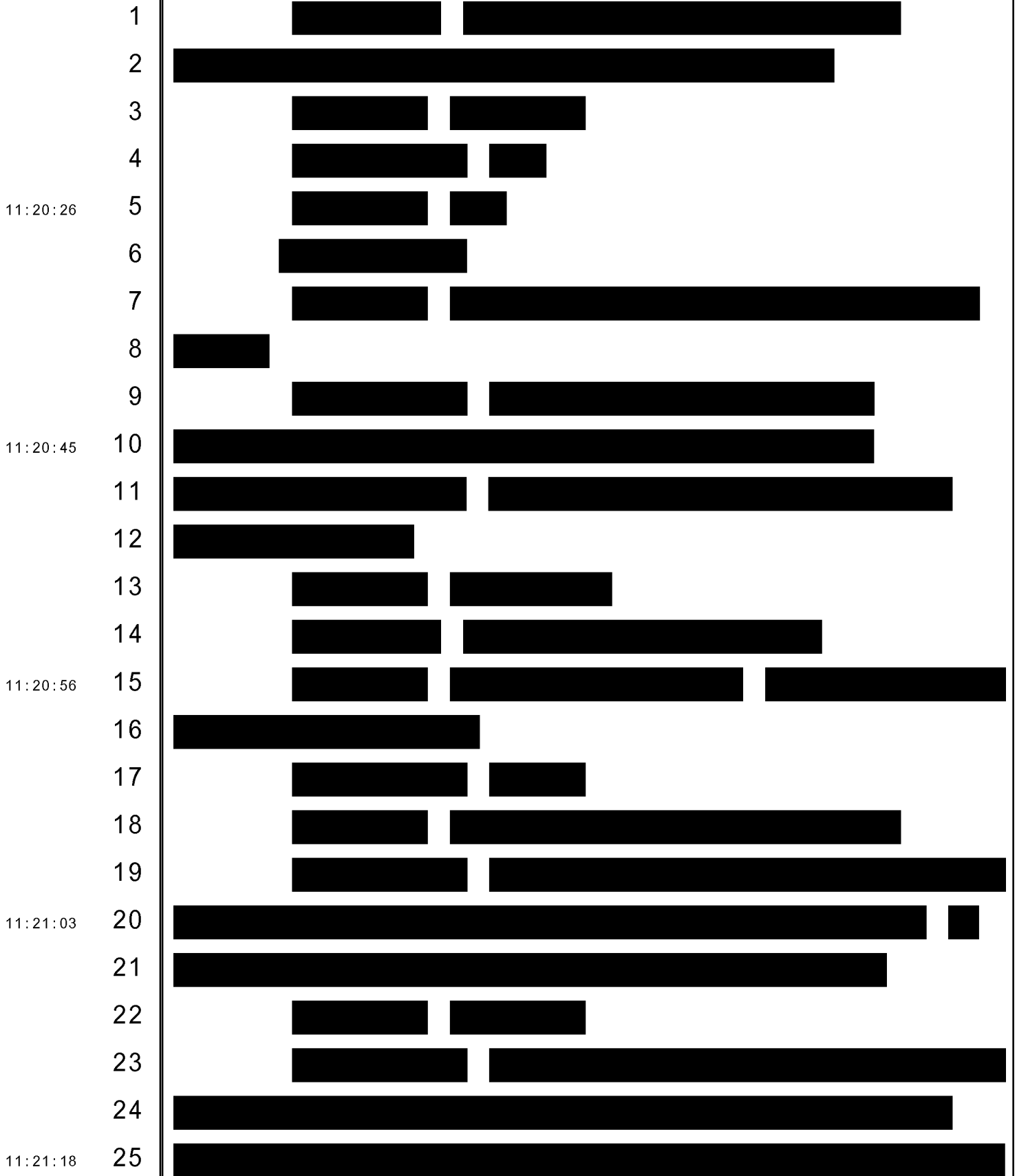
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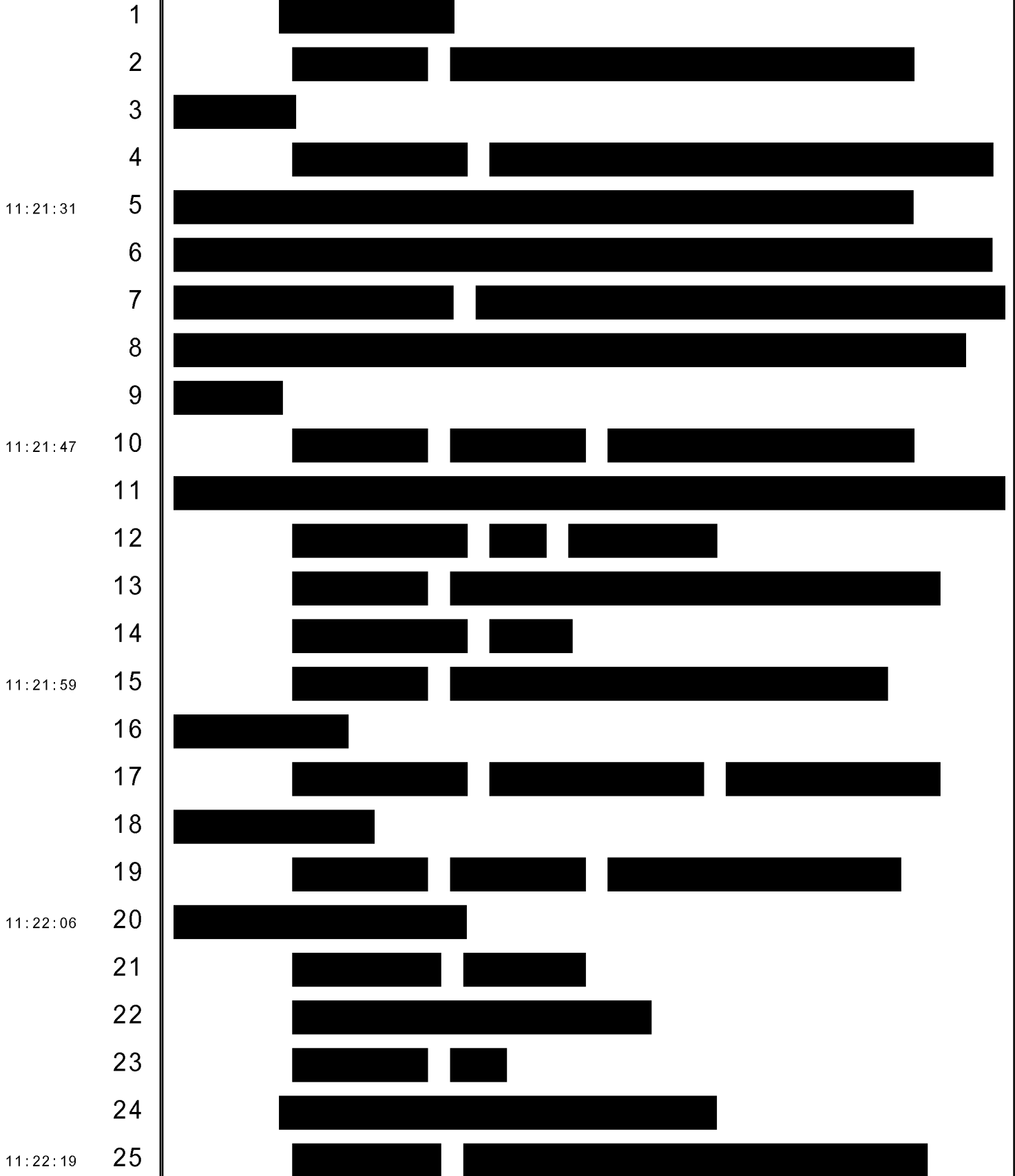
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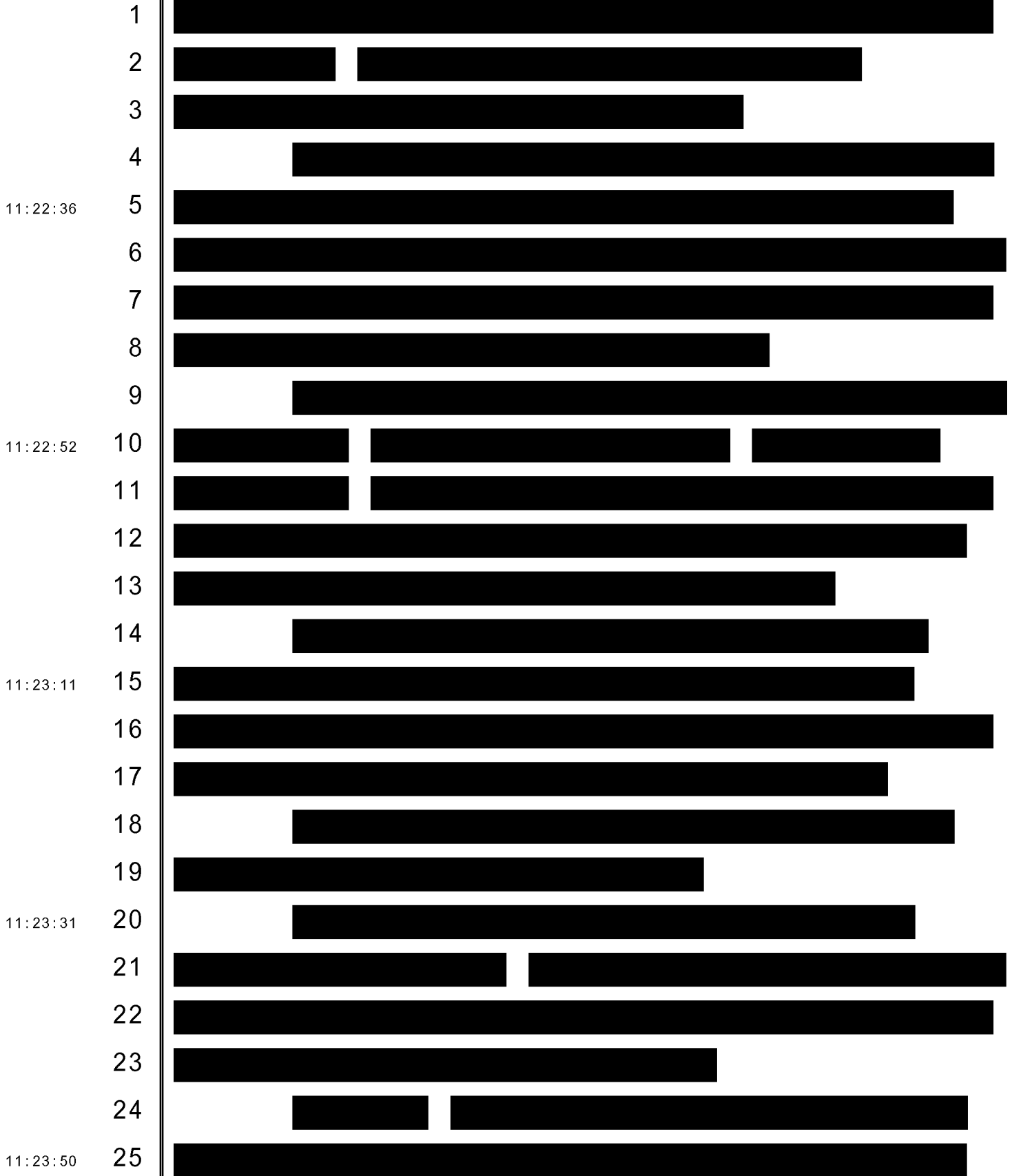
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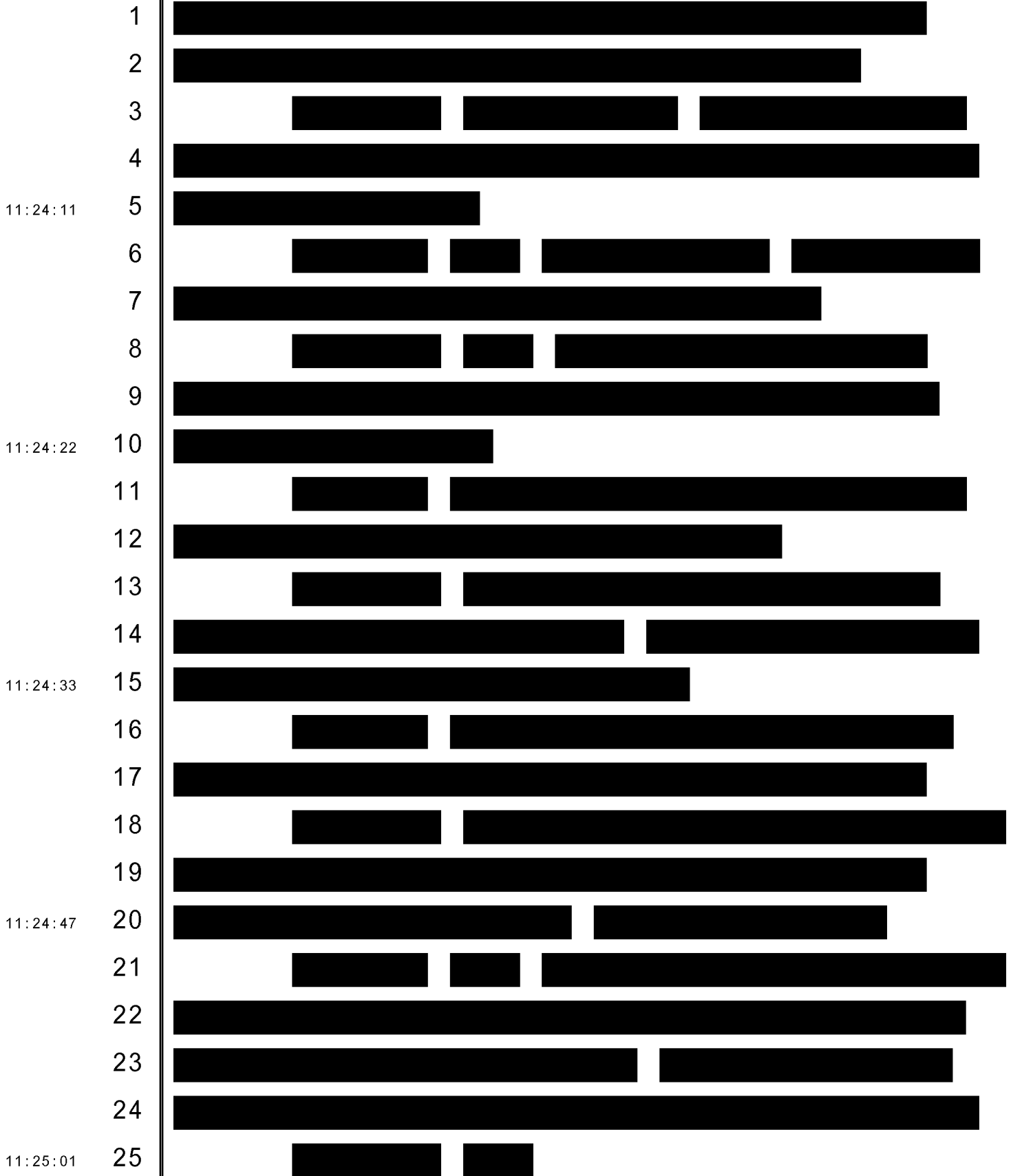
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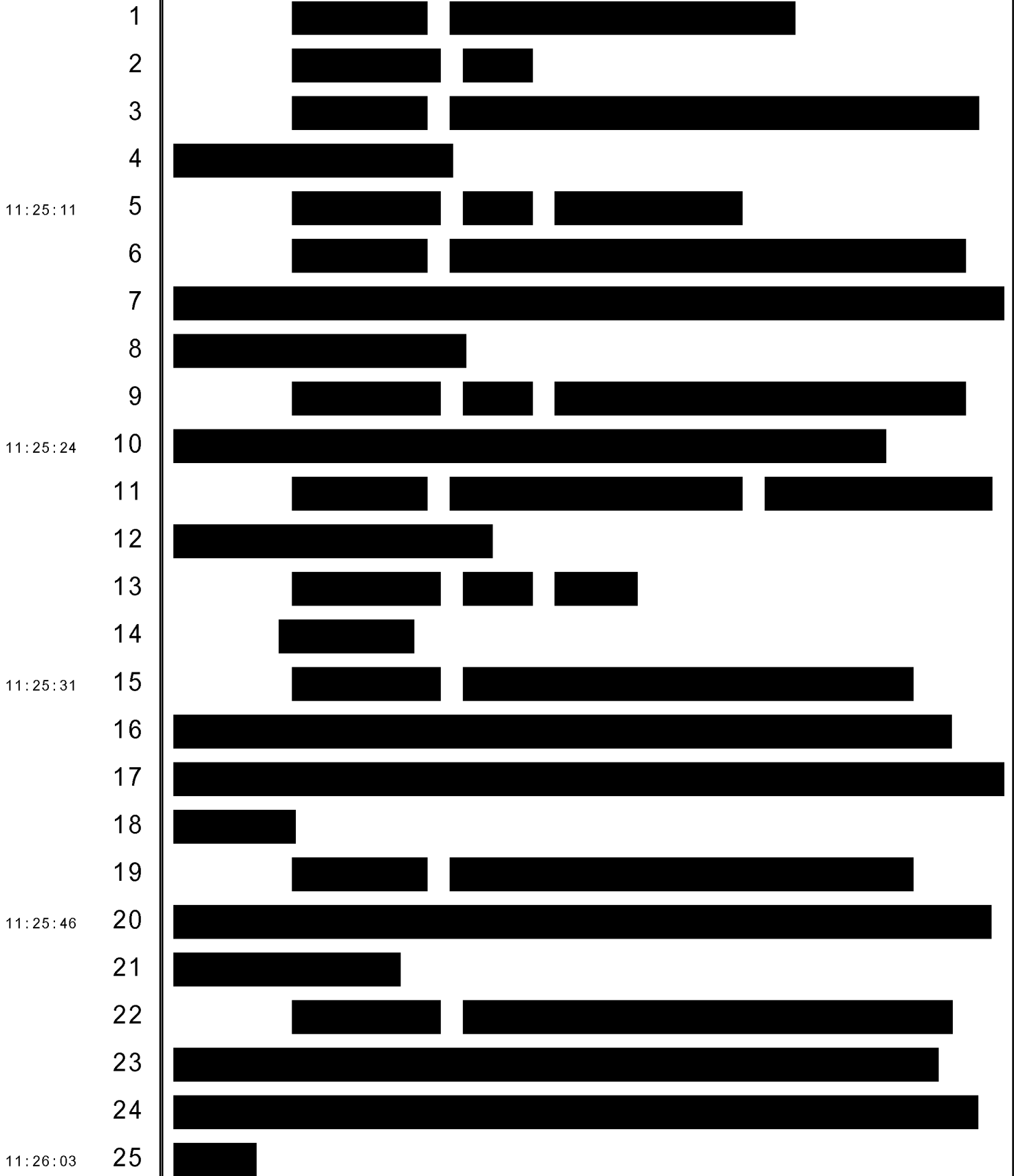












1 [REDACTED]

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8 [REDACTED]

9 [REDACTED]

11:26:26

10 [REDACTED]

11 [REDACTED]

12 [REDACTED]

13 [REDACTED]

14 (The following proceedings were had in the

11:27:31

15 presence of the jury in open court:)

16 THE COURT: All right. Thank you very much, ladies

17 and gentlemen.

18 And please be seated. We'll resume.

19 Call your witness, sir.

11:27:53

20 MR. WISNER: Yes, Your Honor. The plaintiffs call

21 Dr. Healy to the stand.

22 THE COURT: All right.

23 (Brief pause).

24 THE COURT: All right, doctor, step up here, please.

11:28:06

25 Right around there, if you will (indicating).



1 (Brief pause).

2 THE COURT: Please raise your right hand.

3 (Witness duly sworn.)

4 THE COURT: You may take the witness stand.

11:28:26

5 THE WITNESS: Thank you.

6 THE COURT: You may proceed, sir.

7 DAVID HEALY, PLAINTIFF'S WITNESS, SWORN

8 DIRECT EXAMINATION

9 BY MR. WISNER:

11:28:30

10 Q. Good morning.

11 A. Good morning, Mr. Wisner. Excuse me, while I pour some  
12 water. Just one minute.

13 Q. Not a problem.

14 (Brief pause).

11:28:38

15 BY THE WITNESS: Okay.

16 BY MR. WISNER:

17 Q. Could you please introduce yourself to the jury.

18 A. Yes. I'm David Healy.

19 Q. Dr. Healy, are you a medical doctor?

11:28:51

20 A. I am, yes.

21 Q. What sort of medical doctor are you?

22 A. Well, I've trained in general -- in -- hang on. I've  
23 trained in general medicine, first of all, but after that I did  
24 research and I moved into the mental health area. So I'm  
25 actually a practicing clinical psychiatrist.

11:29:09

1 Q. Are you familiar with the area of pharmacology?

2 A. I am, yes, because the research that I did after I did my  
3 general training first, and before I went into mental health,  
4 was based on pharmacology, because at that point in time, in  
5 the early '80s, the new drugs we had looked like good tools to  
6 probe why people behave the way they do.

11:29:29

7 Q. And can you just briefly explain to the jury what  
8 pharmacology is.

9 A. Yes. I mean, there's a broad range of things that they can  
10 be. You've got a group of people in there who are interested  
11 in what we can tell about how the drug works in either the  
12 heart, the kidneys, or the brain, or whatever. What does it  
13 actually do. How does it latch on to a brain cell, for  
14 instance, and tell that brain cell what to do.

11:29:48

15 And then there's people who work all the way in sort  
16 of -- I mean, they don't work in the lab, looking at what  
17 actually happens to the drug in the brain, they look at what  
18 can we tell about what this drug does when we give it to  
19 people. Does it actually work, does it cause problems. And  
20 that involves getting involved in things like clinical trials.

11:30:04

21 So it goes all the way from the lab to the bedside.  
22 At the bedside end of it, the people who are doing it are  
23 mostly doctors, but in the lab they're usually Ph.D.  
24 scientists.

11:30:23

25 Q. Doctor, I understand you are a medical doctor, are you

11:30:37

1 also -- do you also have a Ph.D.?

2 A. Yes.

3 Q. And what is your Ph.D. in, specifically?

11:30:50

4 A. Well, it was looking at what could be said about people who  
5 are depressed. What happens to them. And this is back in the  
6 early '80s, you need to remember, before we could look at your  
7 genes, before we could do brain scans on you. There's a whole  
8 bunch of things we could do now that we couldn't do back then,  
9 but one of the things we could do back then was to use the new  
10 antidepressant drugs, and things like that, to check and see  
11 what happens to people who were depressed when they began to  
12 get well, after they put on the actual treatment, to see does  
13 there -- do their hormones change, do their serotonin levels  
14 change and things like this.

11:31:06

11:31:24

15 So that was the kind of work that I was involved in.  
16 Looking at is there anything abnormal in people who are  
17 depressed to begin with. Could we generate a test which would  
18 actually show our people clinically depressed as opposed to  
19 just unhappy.

11:31:40

20 And if we could, then the next issue was what changes  
21 when you give a treatment that works or even that fails to  
22 work, what's the impact of the treatment and what's the impact  
23 of the recovery.

11:31:55

24 Q. And, Dr. Healy, I'm sure everyone has heard that you have  
25 an accent. Where are you from?

1 A. I'm Irish.

2 Q. And where was your medical training done?

3 A. Well, it was done actually in University College Dublin and  
4 the research was then done in a place called University College  
5 in Galway.

11:32:07

6 Q. And your Ph.D. work, where was that done?

7 A. Well, that was done in, at the first instance, over in  
8 Galway and then later Cambridge, England.

9 Q. And where did you presently live?

11:32:20

10 A. I live in the United Kingdom and I live in a part of it  
11 called Wales.

12 MR. WISNER: This time, Your Honor, I'd like to  
13 proffer his credentials to the jury.

14 THE COURT: All right. Proceed.

11:32:43

15 MR. WISNER: Dr. David Healy is a professor of  
16 psychiatry at Bangor University in the United Kingdom and  
17 operates a clinical practice treating patients at the Hergest  
18 Medical Unit, inpatient unit, in North Wales.

19 He is both a medical doctor and a  
20 neuropsychopharmacologist. He is -- he has done research  
21 specifically in the field of selective serotonin reuptake  
22 inhibitors, or SSRIs, of which Paxil is a member.

11:32:58

23 He achieved his doctorate from his study and thesis  
24 specifically on the subject of the serotonin reuptake system,  
25 and the system that Paxil works on.

11:33:18

1 He has written peer-reviewed medical journal articles  
2 concerning SSRIs, including Paxil and about their ability to  
3 induce suicidality in some patients.

4 Dr. Healy has published over 200 peer-reviewed journal  
5 articles specifically relating to pharmaceutical medications of  
6 which 50 have specifically related to the relationship of  
7 psychotropic medications and suicide.

8 He has presented lectures specifically about the issue  
9 of suicidality all around the world, including Harvard Medical  
10 School, Columbia, Yale, University of California or UCLA,  
11 University of Toronto, as well as various organizations, such  
12 as the Royal College of Psychiatrists, the American College of  
13 neuropsychopharmacology, or the ACMP, the European College of  
14 neuropsychopharmacology, the Irish College of Psychiatrists, et  
15 cetera.

16 He has in addition to his peer-reviewed work in  
17 medical journals, published over the 22 books in the field of  
18 mental health and psychiatric drugs. A selection of those  
19 books are displayed here (indicating). I won't go through all  
20 of them. Of note are the psychopharmacologists, which are  
21 textbooks specifically relating to the field of  
22 psychopharmacology.

23 In addition in the early years Dr. Healy has been a  
24 consultant to most of the SSRI manufacturers at some point in  
25 his life, including the manufacturers of Paxil, specifically

1 GlaxoSmithKline. He's -- years before he was ever asked to be  
2 an expert witness for any plaintiff, he was, in fact, asked by  
3 Eli Lilly, the maker of Prozac, to provide his expert opinions  
4 concerning the SSRI induced akathisia and suicidality related  
5 to Prozac or fluoxetine.

11:35:32

6 Dr. Healy has been studying the issue of Paxil-induced  
7 suicidality for well over 20 years.

8 With that, Your Honor, I'd like to proceed.

9 THE COURT: Proceed.

11:35:45

10 BY MR. WISNER:

11 Q. All right, doctor, let's start off with the things that  
12 we're going to cover today. I first want to talk to you about  
13 antidepressants and how they relate to the treatment of  
14 depression and anxiety, then I want to talk to you about  
15 whether or not antidepressants specifically relate to  
16 suicidality, and if so, how that happens. Third, I want to  
17 talk about Paxil specifically and the data that you have seen,  
18 conducted yourself, and you will testify about relating to  
19 whether or not Paxil is associated with suicidal behavior. And  
20 then finally, I want to go into your evaluation of the methods  
21 by which GSK has conducted its research on suicidality and  
22 whether or not those methods were scientifically legitimate or  
23 not.

11:36:15

11:36:35

24 So with that sort of rough outline, let's start at the  
25 beginning. What is an antidepressant, doctor?

11:36:53

1 A. Well, the group of drugs that we use within -- at the  
2 mental health field these days begin in the early 1950's. And  
3 the first drug was a drug called Thorazine that's now called an  
4 antipsychotic.

11:37:17

5 And the companies who were in the business of trying  
6 to make drugs like these made a whole load of them. And in the  
7 midst of all this they found one that seemed -- that looked  
8 like Thorazine but actually didn't seem much good for people  
9 who had major mental illness. On the other hand, it did seem  
10 to be good for people who had a condition called melancholia.

11:37:39

11 And this drug that they'd found was a drug called  
12 imipramine and it was the first of what are called the  
13 tricyclic antidepressants. We now know that it's also a  
14 serotonin reuptake inhibitor, but it does a lot more than that.  
15 And it was a very good drug, a very potent drug for treating  
16 people with, as I say, this profound what we would call  
17 depressive illness now but what was called melancholia back  
18 then.

11:37:56

19 Q. You mentioned a few terms there. Let's clarify them for  
20 the jury.

11:38:10

21 The first was, you mentioned, serotonin reuptake. What  
22 is that and can you explain how that relates to  
23 antidepressants, doctor.

24 A. Okay. One of the things that was closely related to the  
25 discovery of the new drugs was beginning to become aware that

11:38:23

11:38:48

1 the brain operates using chemical neurotransmitters. And one  
2 of the first of these to be discovered was serotonin. And  
3 later when drugs like LSD were made, and it was actually found,  
4 that that works on the serotonin system, the link between  
5 serotonin and people being severely mentally ill was made for  
6 the first time.

7 But also -- and can I just ask you to quickly repeat  
8 the question there?

9 Q. Sure. I'll ask you another question, doctor.

11:39:04

10 So you mentioned that there is a serotonin  
11 relationship to behavior. How does that work or do we know how  
12 that works?

11:39:21

13 A. Okay. Well, yes. And what we actually know now is, we got  
14 over a hundred neurotransmitters, a hundred different ones. We  
15 know that serotonin is one of the most primitive ones. That's  
16 way back when we were just single celled, and clearly we weren't  
17 every single cell creatures, but just when they were  
18 single-celled creatures they had serotonin also.

11:39:43

19 And it's -- it's -- it's -- it's clear that serotonin,  
20 while it's primitive, however, isn't necessarily needed. You  
21 can remove, at the serotonin system, from a lot of animals, and  
22 after a while, so they don't eat and sleep right for a while,  
23 but after that they seem to be able to function not too bad.

11:40:02

24 So that was actually discovered. And there were hints that it  
25 was in the brain as of the early 1950's when drugs like LSD



1 came along. And when it had impact on it, the link, as I said,  
2 was made to mental illness then.

11:40:25

3 There was a theory based on the fact that a drug  
4 called reserpine, which came on stream in the early 1950's  
5 also, and it was the one that made the link between serotonin,  
6 really, and behavior. And that what we knew was, that it could  
7 cause people to become suicidal. And one of the things we did  
8 was to deplete serotonin. It lowered it.

11:40:42

9 In the 1960's the idea came about that, you know, our  
10 brain chemicals can be low when we're depressed --

11 MR. BAYMAN: Your Honor, objection. This is way  
12 beyond what's even in his report now. He's giving a speech.

13 THE COURT: Proceed.

14 BY MR. WISNER:

11:40:51

15 Q. Dr. Healy, just answer my question. We'll get to all these  
16 things in due time, I promise.

17 A. Okay. Fine. Okay.

11:41:05

18 Q. So the other thing that you mentioned earlier was  
19 melancholia. What was that in the 1950's and how does that  
20 relate to our understanding of antidepressants?

11:41:27

21 A. Before we had the antidepressants as indicated earlier, the  
22 depressive illnesses we had, the main illness was one called  
23 melancholia. Most people who had nervous problems weren't  
24 thought of as being depressed at all. They were thought of as  
25 being anxious.

11:41:41

1 Melancholia was the kind of condition where you came  
2 to a full stop. You often would stop eating and we had to  
3 force-feed you in order to maybe save your life. You weren't  
4 able to sleep, you got to slow down, you couldn't move  
5 physically or mentally.

11:41:53

6 And we knew that there was a big risk that when you  
7 were slipping into this state, that you might try to kill  
8 yourself, and as you recovered from this state, you might also  
9 try kill to yourself. So people were very concerned about  
10 this. And when there was any hint that a person might have  
11 melancholia, they were quickly removed to -- to a hospital.

11:42:07

12 When the first antidepressants came on stream, they  
13 seemed to be a good treatment for melancholia --  
14 MR. BAYMAN: Your Honor, that is not even the  
15 question.

11:42:17

16 THE COURT: Overruled. Proceed.  
17 BY THE WITNESS:  
18 A. They seem to be a good treatment for melancholia, and that  
19 led to people being aware that actually there's other cases out  
20 there that we aren't picking up at all.

11:42:31

21 And as these cases got picked up, the idea of  
22 melancholia began to change into something closer to what we  
23 think of as people being depressed now, but there was a big  
24 change later on.  
25 Q. Let me ask you another question. How has our understanding

1 of depression in the mental field change from what was  
2 previously melancholia?

11:42:49

3 A. Yeah. Well, compared with back then, the estimates I have  
4 are that there is about 1,000 people being diagnosed for being  
5 depressed, as being depressed, when there was only 1 person  
6 diagnosed with melancholia back then or even now.

7 Melancholia still happens, but this profound illness  
8 is quite rare compared with the number of people who actually  
9 get diagnosed as depressed now.

11:43:04

10 And part of what's happened is this, you'd expect when  
11 a treatment works, that the condition clears up, but, in fact,  
12 we seem to have the opposite.

11:43:21

13 And a little bit of what happened was, as I explained  
14 to you, people had nervous problems back during the 1950's, but  
15 they weren't called depressed they were called anxious. And we  
16 had a good treatment for that, we had the benzodiazepine group  
17 of drugs, and you've heard of drugs like Valium and Ativan.  
18 These seem to be excellent drugs, but then they ran into  
19 problems in the early '80s, people who are concerned that you  
20 might get hooked to them.

11:43:38

21 And that that time, the SSRI group of drugs, that  
22 stands for selective serotonin reuptake inhibitors, were coming  
23 to the market. And the companies could've put them on the  
24 market as anxiolytics or tranquilizers, but --

11:43:56

25 MR. BAYMAN: Objection, Your Honor. Now what the

1 companies could've done?

2 THE COURT: Overruled. It's background.

3 Go ahead.

4 BY THE WITNESS:

11:44:02

5 A. Well, what the companies did was to say, look, from our  
6 point of view, let's treat these nervous problems as people  
7 being depressed rather than being anxious.

11:44:19

8 And to a degree, this was probably right. The kind of  
9 message for doctors like me was that when you see a patient  
10 who's anxious, there's an underlying depressive illness beneath  
11 this. If you treat that, the anxiety will clear up.

11:44:41

12 But, in fact, what began to happen was, people who had  
13 been seeing as cases of Valium or Ativan in the 1980's were  
14 actually becoming cases of Prozac and Paxil. People who are  
15 anxious, were becoming depressed. We now have this huge  
16 explosion where, as I said, about this seems to be  
17 thousand-fold increase in the illness compared with where we  
18 were during the 1950's.

11:44:58

19 Q. Back in the 1950s, you mentioned that there was the  
20 emergence of tricyclics for treatment of depression. Were they  
21 effective in treating depression back then and were there  
22 alternatives?

11:45:17

23 A. Yes. And there were two groups. And at almost exactly the  
24 same time when the tricyclic group of drugs were actually first  
25 discovered, and that was in Europe, there was a group of drugs

11:45:41

11:45:56

11:46:15

11:46:34

11:46:54

1 called the MAOI's. Now, that stands for Monoamine oxidase  
2 inhibitors and they were discovered over here. And one of the  
3 things that was noted early on was when somebody -- I mean,  
4 lots of people did awfully well when they got the tricycle  
5 antidepressants, but it was noted that some of them responded  
6 poorly, and the people who responded poorly to the tricyclics  
7 often responded very well to an MAOI, and people who responded  
8 very well to an MAOI often responded poorly to the tricyclics,  
9 and one of the reasons for this is that the drugs do completely  
10 different things to the serotonin system.

11 Q. Were tricyclics and MAOIs a popular form of treatment back  
12 in early '60s and '70s?

13 A. No, they weren't, and for two reasons. The general view,  
14 as I've indicated, was this was a rare condition. Nobody  
15 thought much about any of the pharmaceutical companies could  
16 make much money out of it, but the other aspect was the MAOI  
17 group of drugs, the ones who were invented over here, came with  
18 a major problem, which was you couldn't eat cheese with them  
19 and you couldn't drink wine with them because there was a real  
20 risk you might actually have a stroke. And that was because of  
21 an odd quirk to these drugs, which meant that when you took  
22 them, your body can absorb a compound called tyramine, which  
23 pushes your blood pressure up. So these were terribly tricky  
24 group of drugs used. Very good drugs, but, you know, and  
25 tricky to live with.

1 Q. Well, that brings us into the '80s, doctor.

2 What is an SSRI?

3 A. Right. Well, the tricyclic group of drugs are called that  
4 because, when you look at them, they all have three rings. And  
5 to most people looking at them back then, me, you, these all  
6 look the same. But a man called Albert Carlson looked at them,  
7 said, well, they all look the same, but when I listen to  
8 doctors and I listen to patients they tell me that they aren't  
9 all the same. Some of them do different things to others. And  
10 does this group over here that people say to me, look, there's  
11 some emotional effect of these ones compared to these ones, and  
12 I happen to know, looking at the structure of them, that the  
13 thing that these drugs are doing which these don't is these act  
14 on the serotonin system. So let's try and make a cleaned up  
15 drug that acts more on the serotonin system and less on some of  
16 the other things.

17 And that led to the first of the what's now called  
18 SSRI group of drugs, it was a drug called sell met and made by  
19 drug called Zelemet (phonetic) and was made by Albert Carlson.

20 Q. Now, you said it was to be a cleaner drug. How does that  
21 supposed to physically work within the body?

22 A. Well, the talk, the things people talk about is that it's a  
23 cleaner drug, but, in fact, it's not.

24 The big deal with this early group of molecules was  
25 that they all work in a bunch of different things, and the two

11:48:53

1 key things was they work on norepinephrine and serotonin. And  
2 when you hear SSRI and you hear the word "selective" it sounds  
3 clean, but what it means really is, it's acting on the  
4 serotonin system and not the norepinephrine system. It also  
5 acts on a bunch of other things.

11:49:11

6 So some of the problems with these drugs come from the  
7 action of at the serotonin system and some come from the other  
8 things that it acts on. In terms of the serotonin action, what  
9 you might guess, given they cleaned it up in a drug that was  
10 going to focus much more on this, is a turbocharged action. So  
11 if there's any problem that comes from the serotonin system,  
12 these drugs risk causing it.

11:49:28

13 Q. Now, these are in the context of being treatments for  
14 depression. Is a depressed person's serotonin system  
15 deficient?

11:49:49

16 A. No, it's not. There was an idea during the 1960's that we  
17 had the all -- you hear these days about we have a chemical  
18 imbalance when we're depressed. These ideas came from the  
19 1960s. The main focus back then was on the norepinephrine  
20 system. People thought that the chemical that's lowered is  
21 epinephrine, because that's more a get-up-and-go  
22 neurotransmitter.

11:50:07

23 There were also ideas back in the 1960s that people  
24 didn't pay much heed to but that maybe it's serotonin that's  
25 low, but by the end of 1960s most of academic medicine had

1 thrown these ideas out. They said, look, whatever is wrong and  
2 people who have alluded to it, it's nothing to do with a  
3 lowering of either of these neurotransmitters.

11:50:25

4 Q. When you treat a depressed person with an SSRI, do you see  
5 a change in their serotonin levels?

11:50:52

6 A. Well, you certainly do. And this can vary hugely. Again,  
7 the word "selective" probably gives you the feeling that we've  
8 engineered things and we know what we're doing. In fact, it's  
9 a -- if I give an SSRI to anyone here in the court, it's a  
10 little bit like dropping a little bit of ink into a glass of  
11 water. You can control where it goes and what actually  
12 happens. There's much less control -- we know much less about  
13 what we're doing than we like to let you know we know, okay.

11:51:08

14 MR. BAYMAN: Objection, Your Honor. This is outside  
15 the scope.

11:51:21

16 THE COURT: Sir, this is background. It's not  
17 damaging to either side. I'm going to let him explain this to  
18 the jury. This is the way the jury, I hope, and I will, will  
19 understand the case better for your benefit as well as for the  
20 plaintiff's benefit.

21 You may proceed.

22 BY THE WITNESS:

11:51:34

23 A. Okay. What -- there was an idea, there was a hope, I  
24 guess, that what we find with the serotonin reuptake  
25 inhibitors, that there was low serotonin in the brains of



1 people who were depressed and that with treatment it increases.

2 The trouble is, there's lots of serotonin on different  
3 bits of the brain. And we now know that areas of the brain  
4 where it goes up and areas of the brain where it goes down.

11:51:50

5 There's people where, overall, your brain serotonin levels  
6 treatment can go up, there's lots of people when they take the  
7 treatment the serotonin levels go down.

8 So, you know, we really don't have any good test based  
9 on serotonin to test anyone does anyone here in the court would  
10 they be suited to an SSRI or not. The best test we have is to  
11 give the pill to you and say, look, let me know how you feel  
12 when you get this pill because, you know, that's the single  
13 thing that's going to best tell me if this pill suits you or  
14 not.

11:52:09

11:52:26

15 BY MR. WISNER:

16 Q. You mentioned earlier that LSD was observed to have an  
17 effect on the serotonin system. Is there a relationship  
18 between impacting the serotonin system and influencing erratic  
19 human behavior?

11:52:48

20 A. Yes. And it's clear on the serotonin system, if you act,  
21 all kinds of strange things can happen, including people go --  
22 going quite mad.

23 While the SSRIs don't work on the bit of the serotonin  
24 system that LSD normally works on, they leave a lot of  
25 serotonin washing around the place. And some of it can have

11:53:16

1 effects even like an LSD. You rarely get the full-blown  
2 effect, but, you know, things like this can happen for sure.

11:53:35

3 The other aspect to it is, we don't have any test  
4 showing anyone who is depressed has low serotonin levels, but  
5 what we can show is that if we take the jury, or the court, or  
6 whatever, there's variations among serotonin among all of us,  
7 and that colors our personalities. Just like there's  
8 variations in dopamine and norepinephrine, the kinds of  
9 personalities we are, whether we're outgoing or introverted, do  
10 seem to be shaped by these neurotransmitters.

11:53:54

11 But the point here is that when I give a pill to  
12 people, that I should bear in mind that the serotonin system of  
13 this person here might be completely different than the  
14 serotonin system of that person over there. That doesn't mean  
15 that either serotonin systems are abnormal, but it does mean  
16 that when I give you a pill, I might get a completely different  
17 response here to over there (indicating).

11:54:10

18 Q. So in the '80s we have the emergence of these selective  
19 serotonin reuptake inhibitors. You mentioned the first one,  
20 what were the first few SSRIs that entered the medical  
21 profession?

11:54:28

22 A. Okay. Well, in the early '80s, it did look like making  
23 serotonin reuptake inhibitors was a rational way forward. It  
24 looked like a very good idea. And lots of companies got into  
25 the business of trying to make them. And I know of at least 20

11:54:50

1 different SSRIs that have been made by companies and put into  
2 clinical trials.

11:55:07

3 Now, we don't have 20 SSRIs on the market, we only  
4 have about 6 or 7, and that's because a lot of compounds ran  
5 into problems even before they came to the market. And then  
6 the first few that came into the market, the first was this  
7 drug called Zelemet, which you didn't hear about over here. It  
8 came in the market in Europe and it caused a serious problem,  
9 which is Guillain-Barré Syndrome and was removed from the  
10 market after about a year.

11:55:25

11 The next one came in the market in France, which is  
12 called Indelphine (phonetic) and that caused liver problems and  
13 that was removed from the market.

11:55:37

14 The third to arrive was Luvox, which you did get over  
15 here much later. We had it in Europe a bit earlier and then it  
16 came over here much later, marketed for OCD.

17 And then the one that really made the market for  
18 everyone was Prozac, which was approved here in 1987 and comes  
19 into the market in early '88.

11:55:56

20 Q. With the emergence of Prozac, based on your research, how  
21 did that influence or affect the way psychiatric conditions  
22 were being treated by doctors, medical doctors?

23 A. Well, there two things here. One is that, first of all,  
24 Prozac isn't the only SSRI that came into the market back then.  
25 It was followed quickly by Paxil and Zoloft.

11:56:22

11:56:40

1 And you had some very big companies get into the  
2 business of trying to educate doctors, which is a good thing,  
3 and educate the rest of us about the nature of the problems we  
4 have. And that tends to -- well, it -- and the influencing can  
5 be very effective. And it's not necessarily always the right  
6 kind of influence.

11:57:01

7 But what the companies, what the SSRIs did, and one  
8 had undoubted advantage compared to the older tricycle  
9 antidepressants, which was they were safe in overdose. So in  
10 terms of trying to handle the competition in the marketplace,  
11 the idea was the SSRIs was sold as being safe in overdose.  
12 That if you were on these pills, you weren't likely to kill  
13 yourself, was the messages.

11:57:16

14 The other bit of competition was to compete with drugs  
15 Valium and Ativan which were the big sellers. These were the  
16 real competition. And the SSRIs sold themselves as being good  
17 for the kind of nervous problems that are out there in office  
18 practice rather than in hospitals.

11:57:33

19 And the good thing about them, it was said back then,  
20 was that unlike the benzodiazepines, you couldn't get hooked to  
21 them.

11:57:49

22 One of the other features about all this, though, is,  
23 the SSRIs turned out to be ineffective for melancholia. They  
24 were relatively weak compared with the older antidepressants.  
25 So there was a big premium put on treating primary care

1 problems rather than hospital problems.

2 Q. And with that focus on primary care, did we see a shift of  
3 the treatment of depression from psychiatrists over to family  
4 doctors?

11:58:05

5 A. We did. And probably a greater shift over here than we saw  
6 in Europe. Family meds in our primary care, our general  
7 practice as it gets called, was always much stronger in the  
8 United Kingdom than it was here. Back then, the

11:58:24

9 antidepressants came on the stream first. They were being  
10 given by a psychiatrist over here and rarely by family doctors.

11 Now that's switched and at least 80 percent of the  
12 antidepressants that are given over here are given in primary  
13 care family medicine. In the U.K., for a long time, it's been  
14 90 percent of them have been given by family doctors and  
15 they're rarely actually being given by people like me.

11:58:49

16 Q. Now, doctor, I want to shift to more on what this case is  
17 focusing on, and that's the issue of suicide. Before we get to  
18 that, though, I want to ask you some basic questions.

19 In your career, have you investigated specifically  
20 whether or not psychotropic medications can induce suicidal  
21 behavior?

11:59:07

22 A. Yes, I have.

23 Q. And can you briefly explain to the jury, without getting  
24 into any specific cases or anything like that, what that -- how  
25 long you've been researching it and what that research has

11:59:25

1 encompassed.

2 A. Yes. Well, from way back in the early 1980's when I was  
3 working on the serotonin reuptake system first, that meant --  
4 now, this is even before the first SSRI drug came at the  
5 market, because of the research I was doing, I was the kind of  
6 person that companies turned to in order to educate other  
7 doctors about what the -- what the serotonin system is and what  
8 the antidepressants group of drugs might be doing to it.

9           So this meant a lot of reading about what's known  
10 about the serotonin system in the brain and also the rest of  
11 the body, because most of your serotonin isn't in your brain,  
12 it's in the rest of your body, in fact, but what's known about  
13 the serotonin system, because this will help shape what kind of  
14 problems that people get.

15           For instance, one of the commonest problems you'll  
16 get, if you've taken SSRIs, you'll feel nauseated for the first  
17 few days. And that can be explained by the fact that actually  
18 the biggest amount of serotonin in you is in your gut, but when  
19 the drugs came on stream, most doctors didn't know this. They  
20 had to be told basic things like this.

21           So, you know, there's a role for people like me in  
22 helping to educate people.

23           And --

24 Q. I was asking about what your investigation and the  
25 relationship between that.

1 A. Right. Okay. But the other areas of research, then,  
2 involved, as I said, taking people who were depressed and  
3 looking at what we could tell about the serotonin system.

12:01:02

4 We couldn't look in the brains. We couldn't look at  
5 what the serotonin levels in the brain were, and we still  
6 can't, but what we could do is we could look in the blood where  
7 there's a blood cell called the platelet that has lots of  
8 serotonin in it and seems to handle serotonin in a very similar  
9 way to what nerve cells do.

12:01:18

10 And the antidepressant group of drugs all act on the  
11 platelet and its ability to block serotonin reuptake. So  
12 there's a lot of things like this you could do with depressed  
13 people.

12:01:33

14 The other aspect then is, when the drugs began to come  
15 on the market and there were controlled trials being done, and  
16 again, I would've been one of the people who's involved in  
17 helping advise companies on the kind of conditions they might  
18 do a control trial in and what kind of rating scales they may  
19 want to use, and then looking at the results as they came out.

12:01:53

20 I did a great deal of consulting with the companies  
21 during this period. I was also involved in helping put on  
22 symposia, and things like that, to educate people more  
23 generally about what the drugs did.

12:02:11

24 So part of the research also involved simply meeting  
25 colleagues who were able to talk about the kinds of things that

1 they'd seen happen with the drugs that didn't necessarily end  
2 up in published articles.

12:02:28

3 Q. So you mentioned you started looking at this issue in the  
4 late '80s. Have you systematically kept abreast of the data  
5 and information from that point onward?

6 A. Absolutely. Yes. This has been the kind of thing that  
7 I've got. Well, in the U.K. we have a word that I don't  
8 normally hear over here, geek. Do you guys have geeks over  
9 here?

12:02:44

10 (Laughter in the courtroom.)

11 BY THE WITNESS:

12 A. Well, I guess you'd call me something like that, a  
13 serotonin geek. There you go.

14 BY MR. WISNER:

12:02:50

15 Q. All right. And as new data has come and arrived related to  
16 the relationship between psychotropic medication and suicide,  
17 have you incorporated that new data into your opinions?

18 A. Yes, I have. And it's been -- well, I have to say here,  
19 very early on, because of the research I do and the clinical  
20 practice I do, I had people who I gave SSRIs to who became  
21 intensely suicidal. So this was an issue for me from very,  
22 very early on. I mean, a personal issue when you see people  
23 you are actually trying to treat and trying to help and when  
24 you've harmed them.

12:03:15

12:03:37

25 So that meant that I was interested in the issue, the



12:03:54

1 whole phenomenon of that, the drugs causing this kind of  
2 problem, which involves looking at the evidence that comes in,  
3 not just to confirm my view that the drugs can cause a problem,  
4 say, but also taking the evidence that points to the fact that  
5 lots of people can do terribly well on these drugs, because I  
6 was still giving the same drugs to other people and they were  
7 doing well.

12:04:07

8           So there were issues about trying to work out why some  
9 people do well and others do poorly and how big a problem it  
10 is, because that's going to shape, clearly, how sort of the  
11 whole -- how these drugs get handled, generally, and the wider  
12 debate.

12:04:19

13 Q. You mentioned that -- do you currently practice and treat  
14 patients?

15 A. I do, yes. About half the week I do research and about  
16 half the week I treat people.

17 Q. And then in your treatment of patients, I mean, do you use  
18 SSRIs?

12:04:32

19 A. Yes, of course I do. I mean, they can be wonderfully  
20 helpful. I mean, the paradox here is, right from the 1950s,  
21 when the problem of people becoming suicidal on any  
22 antidepressant turned up first, the issue goes back way beyond  
23 when I began to see it first to the 1950s. You have people who  
24 are very enthusiastic about the early drugs they were giving,  
25 because we didn't have anything else, who were describing some

12:04:48

12:05:07

1 people as better than well and doing hugely well on these  
2 pills, at the same time they were saying, look, we have a few  
3 other people who become suicidal. There's a bunch of people  
4 who were going on to suicide, but there is a bunch of people  
5 who, with these older drugs even, which also, as I said, worked  
6 on the serotonin reuptake system, that some people who drugs  
7 don't seem to suit and in early phase of treatment they may  
8 become suicidal.

12:05:22

9 THE COURT: Doctor, just don't talk quite so fast. We  
10 have a wonderful reporter, but we want to get everything you  
11 say. So slow it down a little bit.

12 THE WITNESS: Okay.

13 THE COURT: All right.

14 BY MR. WISNER:

12:05:35

15 Q. Now, doctor, is it your opinion that all SSRIs should be  
16 taken off the market?

12:05:56

17 A. Absolutely not, no. This is a group of drugs that I use.  
18 I mean, most drugs come with problems. The trick is not to  
19 necessarily get rid of them, but have an honest acknowledgement  
20 of what the problems are in order to be able to ensure that we  
21 hang on to the drugs that come with problems for one person  
22 over here but may be the perfect treatment for a different  
23 person over here.

12:06:13

24 Q. And based on these decades of research and work that you've  
25 done, have you come to an opinion about whether or not SSRIs,

1 and in particular Paxil, can induce adult suicidal behavior?

2 A. Absolutely. I'm very sure that it can.

3 Q. And have you arrived at an opinion with a reasonable degree  
4 of scientific certainty?

12:06:26 5 A. Yes, I have.

6 Q. Okay. Great. So let's get into the basis of that opinion  
7 you have about Paxil and SSRIs, generally.

8 I'd like to focus our first inquiry, and this is part  
9 of the outline we outlined to begin with on how. How do these  
10 drugs, like SSRIs, cause someone who's depressed or had anxiety  
11 to be induced into suicidal behavior?

12 A. Well, there's a little bit of a mix, which is that these  
13 drugs take ages to work. They can take 4 to 6 weeks to work.  
14 That gives you the impression that nothing is happening before  
15 that. In fact, from within 30 minutes of being on these drugs,  
16 many people will feel nauseated and a whole range of other  
17 things.

18 So the drugs are very active on people right from the  
19 very start. And right from the very start they can leave some  
20 people -- I mean, the aim of the drug is to emotionally numb  
21 you. The reason we have the drugs is because Albert Carlson  
22 said, people are saying to me these drugs do something to their  
23 emotions, they do have numbing. Now, this can sound like many  
24 not a great thing to do, but if he can get just the right  
25 amount of numbing for the circumstances in which you're in, so

12:07:41

1 that you don't feel the need to maybe dot every i and cross  
2 every t, you're not totally anxious about the work you're  
3 doing, you're a little bit more relaxed about it, that can be a  
4 good thing for a period of time.

12:07:57

5 Most most of the nervous problems we treat with these  
6 drugs actually only last a few weeks, at the most a few months.  
7 So if he can tie you over by getting the right amount of the  
8 emotional numbing, this can be a good thing.

12:08:15

9 And all of this happens right at the start, but the  
10 other thing that can happen right at the start at the same time  
11 is, you can become agitated. You can become more anxious. So  
12 there's a bunch of things happening right at the start that the  
13 drugs do all of which can potentially contribute to you  
14 becoming suicidal.

12:08:49

15 Q. Doctor, if you could, in front of you, turn to Plaintiff's  
16 Exhibit 41.

17 A. On the screen or --

18 Q. In the paper.

19 A. Okay.

20 Q. It should be in order.

21 A. Okay. Let's open this.

22 (Brief pause).

23 BY THE WITNESS:

24 A. Yes.

25 BY MR. WISNER:

1 Q. Okay. What is this a document that depicts?

2 A. This reflects some of the things that these drugs can do  
3 almost instantly when you go on them.

12:09:05

4 Q. Would using this document help explain the mechanism behind  
5 drug-induced suicidal behavior?

6 A. It would help me explain it definitely, yes.

7 MR. WISNER: Your Honor, permission to publish to the  
8 jury?

9 THE COURT: All right. Proceed.

12:09:14

10 (Exhibit published to the jury.)

11 BY MR. WISNER:

12 Q. Okay. Doctor, what are we looking at here?

12:09:27

13 A. Right. What you're looking at -- well, what I hope you get  
14 from it, and what I get from this is, looking at giving the  
15 drug and the reaction of the drug on the brain. And we look  
16 and try to tease out how this drug might cause people to harm  
17 themselves.

18 And there's three different mechanisms that I have  
19 learned here. There's, in fact, more than three, but these are  
20 the three main ones.

12:09:44

21 Q. All right. Let's start with the one on the top.

22 A. Yes.

23 Q. Can you please say what that word is to the jury.

12:09:55

24 A. Okay. This is one of the most unfortunate words in  
25 medicine, I think. It's a word called "akathisia." It's a

12:10:20

1 Greek word which means restlessness. It was coined by a  
2 German. And, unfortunately, the field paid heed to the German  
3 that coined it, used it in the context of drugs during the  
4 1950's and didn't pay heed to investigate it here over in the  
5 United States. We've seen the same thing as this who were  
6 using words like "emotional turmoil" and that would've given  
7 you a much better feel for what the phenomenon is.

8 Do you want me to explain it a bit more?

9 Q. Yeah. I'll ask you some questions about it.

12:10:35

10 So what is akathisia as we understand it in the  
11 medical profession.

12:10:35

12 A. Okay. It as actually been described first 100 years  
13 before, it was the opposite to Parkinson's disease. With  
14 Parkinson's disease you come to a full stop and you can't move.  
15 Akathisia was just he opposite. You beat around as restless as  
16 you can and can't stop.

12:11:03

17 It was described first, as I said, by a German doctor,  
18 called Dr. Hasse (phonetic) in the mid 1950's linked to a drug  
19 called Rezipin and he saw some of the people who became  
20 intensely restless on rezipin beating around the place, but  
21 American investigators looking at the same thing were more  
22 impressed with the fact that people were saying to them, often  
23 when they weren't beating around the place, they were saying to  
24 them, look, I'm full of violent and unusual impulses and I have  
25 never had before, I want to crawl out of my skin. It's an

12:11:21

1 inner restlessness.

2 The word akathisia points you a little bit towards the  
3 outer restlessness that some people see, but for me and for a  
4 lot of other people working, and certainly it's pointing to the  
5 inter restlessness that's often the thing that's a little bit  
6 unhelpful, and for me and for a lot of other people it's the  
7 inner restlessness that's the really pernicious thing, the  
8 thing that can lead people to harm themselves or harm others.

9 People have described it like a state worse than  
10 death. Death will be a blessed relief. I want to jump out of  
11 my skin. A lot of doctors like me have tried these drugs and  
12 they've said this condition, if you get it, is one of the worst  
13 experiences of your life. And some of these drugs were used in  
14 the old Soviet Union to torture people. You'd give them the  
15 drugs, you know how bad they feel, and people were --

16 MR. BAYMAN: Your Honor, objection. This is now  
17 highly prejudicial.

18 THE COURT: Overruled. Proceed.

19 BY MR. WISNER:

20 Q. Doctor, you said, "I took these drugs." Did you mean you  
21 used them in patients or did you personally take them?

22 A. No, as part of research, one of the things that a lot of  
23 people do, both the companies do them and people like me have  
24 done them is healthy-volunteer studies.

25 If you're interested to find out about behavior and

12:13:00

1 things of that, one of things you can do is you can give a drug  
2 like an SSRI to healthy volunteers, and you it blind so they  
3 don't know what they've got. I mean, you know, you'll have  
4 things picked out that they may have got the SSRI or they may  
5 have got a completely different drug. So you're able to look  
6 at the impact of behavior on people.

12:13:17

7 Now, it wouldn't be proper for me to give -- well, to  
8 run healthy volunteers on my colleagues -- I wouldn't run  
9 healthy volunteer trials on some of my colleagues and friends  
10 if I weren't prepared to take the drugs myself. So I have also  
11 volunteered for these trials. And it means that I've had a few  
12 of these drugs and know what the feelings are like on the  
13 inside.

12:13:29

14 Q. Now, you said that there's an exterior and interior aspect  
15 to akathisia. Let's focus on first the exterior.

12:13:47

16 Ballpark percentage, what percentage of akathisia is  
17 exhibited physically on the outside?

18 A. I don't think anyone can answer that for you, Mr. Wisner.  
19 And part of the problem here is that akathisia, like  
20 Parkinson's disease, comes with an on/off phenomenon. In  
21 Parkinson's disease it's well-known that people can be there  
22 unable to move and 5 or 10 minutes later they can be walking  
23 down the corridor fine.

12:14:07

24 Some nursing staff and even in medical staff seen  
25 this, sometimes think the patient is playing games: Look, they



1 were well able to move, so when they were -- when they come to  
2 a full stop over over here, they were just manipulating us.  
3 But, in fact, that's not the case. It just that at times, if  
4 you've got Parkinson's disease, you simply can't move and then,  
5 all of a sudden, it loosens up and you're able to move again.

12:14:23

6 It's the same with akathisia. It's got an on/off  
7 switch. There are times when you're just incredibly restless  
8 and you can't stay still and then there are times that it's  
9 gone, you're back.

12:14:37

10 And I've had colleagues who have, when involved in  
11 some of the healthy-volunteer studies, who I interviewed and  
12 they seemed happy as a clam to me, just didn't seem to be any  
13 problem, and a half hour later, they told me, they were feeling  
14 suicidal, they were intensely restless.

12:14:53

15 Q. So what are the physical manifestations of akathisia that  
16 one would see?

17 A. It can involve pacing. You can literally be unable to stay  
18 on the one side -- I mean, it -- it -- it can, if you're caught  
19 in the one spot like me here, you won't be able to see it, but  
20 I might be kicking my feet, okay, and unable to stop it  
21 (indicating).

12:15:10

22 If you aren't caught in the one spot, if you're able  
23 to move around, well then you move, you move around the whole  
24 time. You might ring your hands. You might look agitated. If  
25 you imagine extreme agitation and how it looks. A person who

12:15:23

1 is really in a woe-is-me state, you know, this is awful, this  
2 is terrible, you know, walking up and down, totally oblivious  
3 to other people around them often, that's the way it will  
4 look.

12:15:40

5 Q. Now, what about internally -- well, before I get there, you  
6 said that it has an on/off switch. If someone is experiencing  
7 an akathisia reaction, will you expect them to always be  
8 exhibiting these physical systems?

12:16:00

9 A. No. No. No. They may not exhibit the physical symptoms at  
10 all, they may be just inner, but whether it's inner or outer or  
11 both, they can have the on/off switch so there are periods of  
12 time when you can meet them and they'll look totally normal to  
13 you, and then a short while afterwards they may be anything but  
14 normal.

12:16:13

15 Q. Now, let's go to the inner parts of akathisia.

16 What does that entail, doctor?

12:16:30

17 A. Well, the words -- over the years the words that I've come  
18 to figure out the best is a state of emotional turmoil. Where  
19 you get people who might never have thought about harming  
20 themselves or harming others or doing anything strange or  
21 violent are plagued with thoughts they have never had before.  
22 This can come as a huge shock to people.

12:16:46

23 One of the other aspects to the shock is, this can be  
24 happening to you and you might come along to a person like me  
25 -- I mean, I've just put you on an antidepressant, you are at

1 work, you are at home, you're functioning, and things like  
2 that, I just put you on an SSRI and you are getting thoughts  
3 like this and you come along to me and the paradox here is you  
4 don't necessarily tell me it for a few reasons.

12:17:02

5 One is, you don't want to make me unhappy. And now  
6 that you have a big problem, I'm your way out of the problem,  
7 so you really don't want to make me unhappy.

12:17:16

8 But the other aspect to this is just, you know, you  
9 figure if I tell Dr. Healy what I'm thinking and what I'm  
10 feeling and what I might do, he'll lock me up.

11 You don't necessarily make the connection to the pill.  
12 You don't necessarily realize, well, actually, if I just hold  
13 this pill, everything will be okay.

12:17:31

14 So for a range of different reasons, you simply don't  
15 let me know what is like on the inside. And I might see you --  
16 you know, maybe I see you during one of these phases where it's  
17 off and you're looking reasonably okay and reasonably relaxed  
18 and you think it's gone maybe, so I don't need to tell him, you  
19 know, he would lock me up if he'd seen me a half an hour ago,  
20 but, hey ....

12:17:49

21 Q. Now, you're talking about akathisia as though you've seen  
22 it or spoken to patients. How do you know about this  
23 phenomenon?

12:18:05

24 A. Well, I've seen colleagues with it. I've had a degree of  
25 it, a very mild degree from one of the pills that I took in a

12:18:20

1 healthy volunteer trial, but much more to the point, I've seen  
2 colleagues with a severe form of it. I've a lot of patients  
3 with it. And very early on, before there were the first  
4 reports over here on Prozac causing akathisia and causing  
5 people to go on to commit suicide, I've given Prozac in the  
6 U.K. to a few patients and seen them become akathisic and  
7 suicidal.

12:18:42

8 Q. When akathisia manifests, when would you expect it to  
9 manifest, if at all, in a patient relative to starting a SSRI  
10 therapy?

11 A. It can be anywhere within the first hour. And it's -- and  
12 the -- the antipsychotic group of drugs also cause it, and they  
13 typically cause it, if they're going to cause it literally,  
14 within the first hour.

12:19:00

15 The SSRIs seem to -- it's a little slower. It's after  
16 the few days often that things begin to build up, and the  
17 person more obviously akathisic. But the peak times tends to  
18 be around sort of 10 days, within a first week or two, that  
19 seems to be the worst time.

12:19:19

20 And when the SSRIs came out first, pharmaceutical  
21 companies reps in the U.K. where I work, and maybe over here as  
22 well, often said to family doctors, you know, this kind of  
23 thing can happen, it wasn't in the label, but the reps on the  
24 ground were saying this can happen, you might want to

12:19:35

25 co-prescribe a benzodiazepine with a drug in order to get

1 people through the first week or two because that's -- what --  
2 what they called in the U.K., maybe not over here, serotonin  
3 pick-up syndrome.

12:19:51

4 Q. Doctor, I'm a bit confused. How is it that only a few days  
5 of therapy can lead to severe psychological side effects?

12:20:15

6 A. Well, as I've tried to explain to you, within the first  
7 hour the SSRIs will have had a major impact on everyone here in  
8 the court. Not everyone will feel nauseated, but about a third  
9 of you will feel nauseated, but, you know, those of you who are  
10 going to feel nauseated will feel it within the first hour or  
11 two of having had this drug.

12:20:29

12 They cause an emotional numbing that many of you will  
13 be able to recognize as being there within the first hour or  
14 two of going on the drug. And anyone who's been on the drug  
15 and see what they can do -- as, for instance, one of our  
16 healthy-volunteer studies we ran in the hospital where I work.  
17 And of the people of the volunteers were my nursing and medical  
18 colleagues. And some of the patients in the hospital at that  
19 time were able to point to one of my medical colleagues and  
20 say, what's he on. And this was within a day or two of them  
21 having been on the drug. They could see he was on a drug and  
22 it was --

12:20:47

23 MR. BAYMAN: Your Honor -

24 BY THE WITNESS:

12:20:55

25 A. -- changing his behavior.

1 MR. BAYMAN: Your Honor, may we approach sidebar for a  
2 minute?

3 THE COURT: Yes.

4 Well, this may be a good time to take the break.

12:21:05

5 We'll break now for lunch and we will resume within an  
6 hour, 1:30.

7 MR. RAPOPORT: Just for clarification, Your Honor, is  
8 it 1:30 or 1:20?

9 THE COURT: 1:30.

12:21:21

10 MR. RAPAPORT: Yeah, 1:30. Great. Thanks.

11 THE COURT: I thought I said 1:30.

12 MR. RAPOPORT: You did. You said in an hour but --

13 THE COURT: That's a little more than an hour. You're  
14 right. You're holding me now.

12:21:30

15 MR. RAPOPORT: Right. We're happy to have it.

16 (Brief pause).

17 (The following proceedings were had out of the  
18 presence of the jury in open court:)

19 [REDACTED]

12:21:38

20 [REDACTED]

21 [REDACTED]

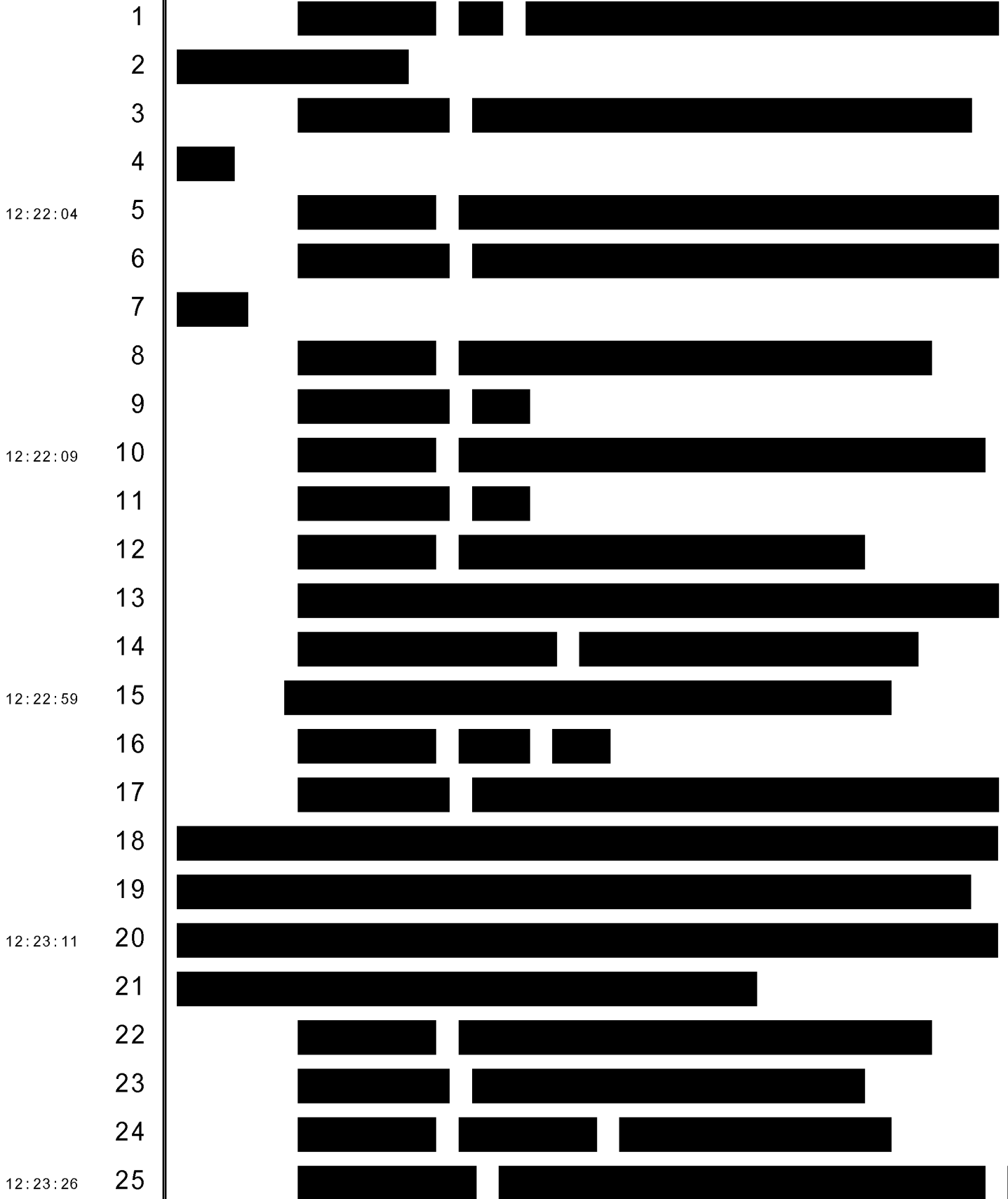
22 [REDACTED]

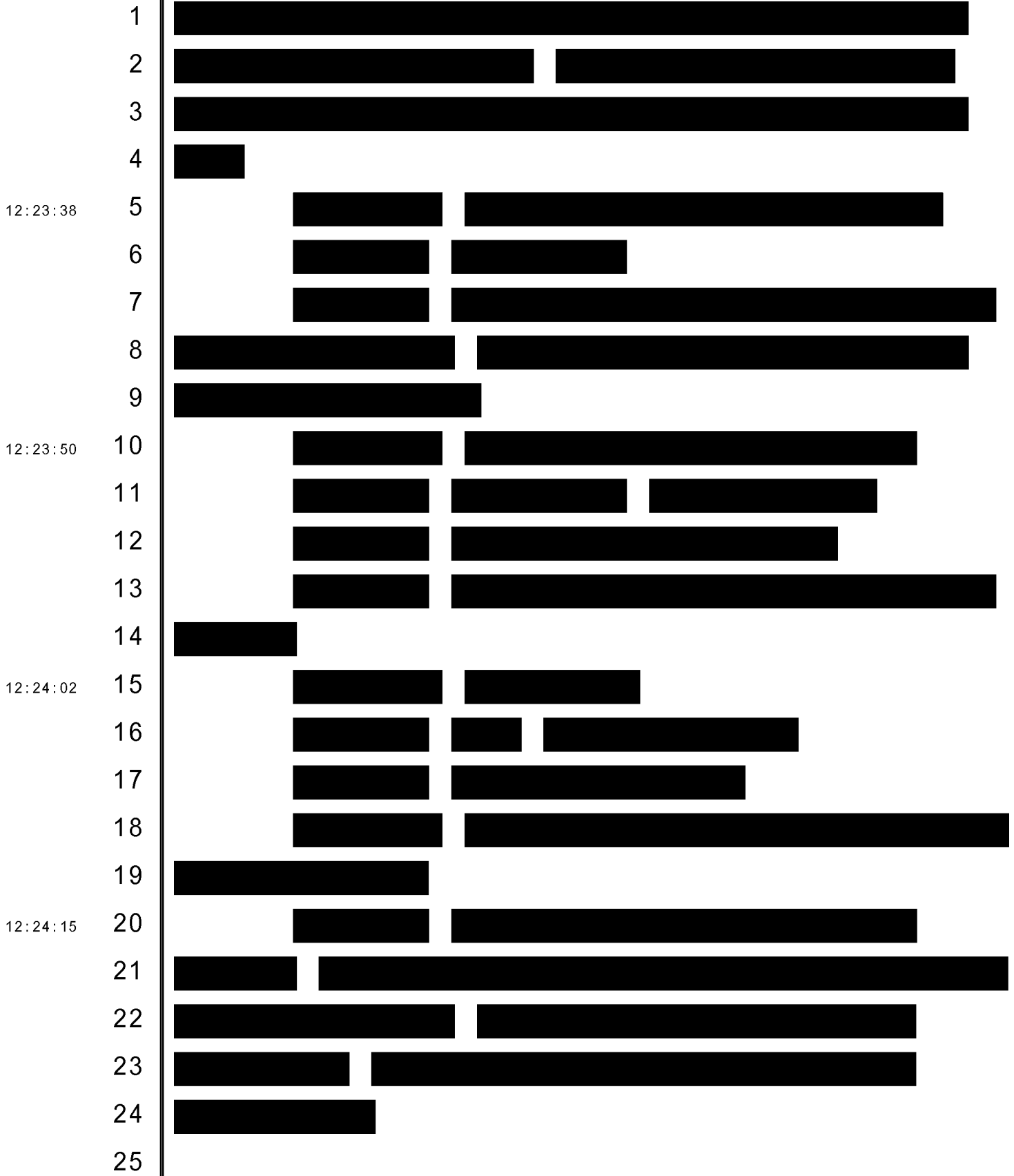
23 [REDACTED]

24 [REDACTED]

12:21:56

25 [REDACTED]







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[REDACTED]

(Luncheon recess taken from 12:24 o'clock p.m.  
to 1:30 o'clock p.m.)

\* \* \* \* \*

I CERTIFY THAT THE FOREGOING IS A CORRECT TRANSCRIPT FROM THE  
RECORD OF PROCEEDINGS IN THE ABOVE-ENTITLED MATTER

/s/Blanca I. Lara

March 15, 2017