

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">1</p> <p>1 UNITED STATES DISTRICT COURT 2 NORTHERN DISTRICT OF MISSISSIPPI 3 GREENVILLE DIVISION 4 -----x 5 6 TERRI LYNN POSTON, 7 Plaintiff, 8 Civil Action No. 9 -against- 4:02 CV 26-M-B 10 PURDUE PHARMA, L.P., THE PURDUE 11 PHARMA INC., THE PURDUE FREDERICK 12 COMPANY, ABBOTT LABORATORIES 13 and ABBOTT LABORATORIES, INC., 14 Defendants. 15 -----x 16 17 July 25, 2003 18 9:38 a.m. 19 20 Deposition of CURTIS WRIGHT, IV, MD, MPH, 21 taken by Plaintiffs, pursuant to notice, at the 22 offices of Chadbourne & Parke, 30 Rockefeller 23 Plaza, New York, New York, before SUZANNE PASTOR, 24 a Shorthand Reporter and Notary Public within and 25 for the State of New York.</p>	<p style="text-align: right;">4</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 CURTIS WRIGHT, IV, MD, MPH, 3 having been first duly sworn by the Notary Public 4 (Suzanne Pastor), was examined and testified as 5 follows: 6 EXAMINATION CONDUCTED BY MR. McNAMARA: 7 Q. Good morning, Dr. Wright. My name is 8 Doug McNamara. I'm representing plaintiffs Terri 9 Lynn Poston today. I'm going to ask you a series 10 of questions. If there's one that you don't 11 understand, just let me know, you can ask me to 12 rephrase it and I'll try to do so. 13 If there's a question I ask you which 14 calls for a yes or no answer, please just give a 15 yes or no answer. If there's something you'd 16 like to add, let your counsel know. And he'll 17 have an opportunity after I'm done questioning to 18 ask you some questions and you could get a record 19 of that matter if you think it's important. 20 If you need any breaks, please let me 21 know. And I think that's the gist of it all. 22 Do you have any medical conditions 23 that affect your memory? 24 A. No. 25 Q. Are you on any medications right now</p>
<p style="text-align: right;">2</p> <p>1 APPEARANCES: 2 COHEN, MILSTEIN, HAUSMAN & TOLL, PLLC 3 Attorneys for Plaintiffs 4 1100 New York Avenue, N.W. 5 West Tower, Suite 500 6 Washington, D.C. 20005-3964 7 BY: DOUGLAS J. McNAMARA, ESQ. 8 -and- 9 BEASLEY, ALLEN, CROW, METHVIN, 10 FORTIS & MILES 11 200 Coosa Street 12 Montgomery, Alabama 36101-4160 13 BY: FRANK WOODSON, ESQ. 14 -and- 15 ABRAHAM, WATKINS, NICHOLS, SORRELS 16 MATTHEWS & FRIEND 17 800 Commerce Street 18 Houston, Texas 77002-1665 19 BY: MARK T. MURRAY, ESQ. 20 21 22 23 24 25</p>	<p style="text-align: right;">5</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 that could affect your memory? 3 A. No. 4 Q. Are you feeling generally pretty well 5 physically today? 6 A. Yes. 7 Q. And you feel like you're able to go 8 ahead and answer some questions? 9 A. I will do to the best of my ability. 10 Q. Dr. Wright, can you tell me about 11 your training in medicine. 12 A. Yes, sir. I received my bachelor's 13 degree in chemistry from Haverford College. I 14 took a job at the National Institutes of Mental 15 Health as a research chemist. I attended night 16 school, enrolled in George Washington University, 17 completed a four-year program of medicine. 18 I then joined the navy and did a 19 general surgical internship at Portsmouth Naval 20 Hospital in Portsmouth, Virginia. Served as a 21 general medical officer, received training in 22 undersea medicine and substance abuse treatment. 23 Left the navy, went to John's Hopkins 24 University, did a master's in public health. Did 25 a residency in occupational medicine and general</p>
<p style="text-align: right;">3</p> <p>1 APPEARANCES OF COUNSEL (CONTINUED): 2 CHADBOURNE & PARKE 3 Attorneys for PURDUE PHARMA, L.P., 4 THE PURDUE PHARMA INC., THE PURDUE 5 FREDERICK COMPANY 6 30 Rockefeller Center 7 New York, New York 10112 8 BY: DONALD I. STRAUDEL, ESQ. 9 AND: JAY R. HENNEBERRY, ESQ. 10 SUTHERLAND, ASBILL & BRENNAN, LLP 11 Attorneys for the Witness 12 1275 Pennsylvania Avenue, N.W. 13 Washington, D.C. 20004-2415 14 BY: JOEL E. HOFFMAN, ESQ. 15 16 ALSO PRESENT: 17 RICARD SILBERT, ESQ., 18 Purdue Pharma LP 19 MICHAEL SHANE, ESQ., Food & Drug Administration, 20 Department of Health & Human Services 21 22 23 24 25</p>	<p style="text-align: right;">6</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 preventative medicine, then did a fellowship in 3 behavioral pharmacology and drug dependence. 4 Q. You mentioned the fellowship in 5 behavioral pharmacology. Is that distinguished 6 from pharmacology? 7 A. Yes. 8 Q. How so? 9 A. Behavioral pharmacology is the 10 pharmacology of drugs affecting behavior. The 11 particular program that I went to is a training 12 program funded by the National Institutes on Drug 13 Abuse for scientists doing research in drug 14 abuse. 15 Q. Now, how long were you there? 16 A. Three years. 17 Q. Do you have any training in 18 regulatory affairs? 19 A. Only the courses that I took when I 20 was in the Food and Drug Administration. The job 21 I took after finishing my behavioral pharmacology 22 fellowship was at the Food and Drug 23 Administration, and they run a series of courses 24 for their employees to teach the basics of 25 regulatory affairs. Law, clinical trials</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">7</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 analysis, affairs of that kind. 3 Q. Do you have any training in 4 marketing, pharmaceutical marketing? 5 A. No. 6 Q. How long have you been — are you at 7 Purdue Pharma L.P. now? 8 A. I'm currently at Purdue Pharma. 9 Q. How long have you been at Purdue 10 Pharma? 11 A. Five years. 12 Q. When did you come on board? 13 A. December of 1998. 14 Q. Did you have any other prior 15 pharmaceutical industry job before that? 16 A. Yes, I did. 17 Q. What were those? 18 A. I worked for a small startup firm 19 called Adolor Pharmaceuticals, A-D-O-L-O-R, in 20 Pennsylvania. 21 Q. Is that the only other one? 22 A. Yes. 23 Q. How long did you work for Adolor? 24 A. About a year. 25 Q. And before Adolor you were at the</p>	<p style="text-align: right;">10</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 by the FDA and by the ICAH to it try to build 3 risk assessment into the development process. 4 Q. What did you do at Adolor? 5 A. I was vice president of clinical and 6 regulatory affairs. 7 Q. How did you get that job? 8 A. I was called up by the CEO of the 9 company when I was at Food and Drug 10 Administration. And they described some projects 11 that were very exciting to me, and he made me an 12 offer and I accepted it. 13 Q. Why did you leave Adolor? 14 A. It was a startup company and it was a 15 startup company right about the time the stock 16 market crashed. And after two failed attempts to 17 go public, I was anxious, and my wife's cancer 18 occurred about that time and I felt I needed a 19 job with a stable company. It had gotten to no 20 more than the thinking stage when I got the call 21 from the recruiter. 22 Q. Could you tell me what your current 23 salary is at Purdue Pharma? 24 A. I think it's about \$200,000 a year. 25 Q. Has that changed since 1998?</p>
<p style="text-align: right;">8</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 FDA? 3 A. Yes, sir. 4 Q. How long were you at the FDA? 5 A. About nine years. 6 Q. Do you remember about when you 7 started? 8 A. Started in mid 1989. And I left 9 sometime in '97, I don't remember the month. 10 Q. Now, how did you get your current job 11 at Purdue Pharma? 12 A. A recruiter, independent of Purdue to 13 my understanding, had been commissioned to try to 14 find some new doctors for Purdue. And he called 15 my house. My wife spoke to him and she said that 16 I should call him. I did call him. He got in 17 contact with Purdue and asked them if they wanted 18 to interview me. 19 Q. Do you remember who you interviewed 20 with? 21 A. I interviewed — not everybody. I 22 interviewed with one of the project leaders. I 23 interviewed with Dr. Reeder who was head of 24 medical at that time. I don't know who else I 25 interviewed with.</p>	<p style="text-align: right;">11</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Oh, yes. 3 Q. What was your salary in 1998? 4 A. I think it was \$185,000 a year. 5 Q. In '98 did you have the same position 6 as executive medical director or was it a 7 different position in '98? 8 A. No. I was an executive medical 9 director, but my duties were different. I was at 10 that time associated with general new product 11 development, oversight of clinical studies and 12 development for new products. 13 Q. In your current position who do you 14 report to? 15 A. Lynn Kramer. 16 Q. Who reports to you? 17 A. A medical officer, Doug Kramer, a 18 risk assessment specialist, Mary Ann Zellman, and 19 my secretary Cathy Duffy. 20 Q. Back when you were at the FDA before 21 you left, what was your last position in '97? 22 A. Deputy director of a review 23 division. 24 Q. Of a review division? Which review 25 division?</p>
<p style="text-align: right;">9</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. What is your current position? 3 A. I am an executive medical director in 4 risk assessment coordination for new products 5 under development. 6 Q. What is risk assessment 7 coordination? 8 A. It's trying to assess the risks posed 9 by potential new products, both during the 10 development process and later on the market or 11 after approval as the first half of the process 12 of risk assessment and management. 13 Q. Do you play a role in the development 14 of clinical trials? 15 A. Yes. 16 Q. With a thought sort of long-term post 17 launch what could happen? 18 A. Several different roles. Are there 19 any risks posed to the participants in the 20 clinical trials. Are there anything that we 21 could learn about risks to the public later in 22 the clinical trials. Are there any specific 23 risks posed by differences between countries and 24 the way they conduct studies. The whole goal — 25 it's in response to a relatively new initiative</p>	<p style="text-align: right;">12</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Its name changed multiple times. It 3 was the division of anesthetic analgesic and life 4 support drugs at that time. 5 Q. Who did you report to back when you 6 left in '97? 7 A. Dr. Cynthia McCormick. 8 Q. How long had you worked with 9 Dr. McCormick? 10 A. About six months. 11 Q. Before her who did you report to? 12 A. Bob Bedford. Dr. Robert Bedford. 13 Q. How long was he your superior? 14 A. About three years. 15 Q. What was your salary when you left 16 the FDA? 17 A. I can only guess. It was about 18 \$158,000 a year I think. Somewhere between 140 19 and 158. There was a bonus that I don't 20 remember. 21 Q. Do you recall what it was in 1995? 22 A. No. 23 Q. Was it over 100? 24 A. No. 25 Q. Do you remember what your position</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">13</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 was in 1995? It wasn't deputy director, was it? 3 A. No, no. At that time I was the team 4 leader for the drug abuse staff. 5 Q. Would you agree that FDA sets the 6 minimum requirements of pharmaceutical 7 companies? 8 A. No -- 9 MR. STRAUBER: I object to the form 10 of the question. 11 Q. No, you would not agree to that? 12 A. No, I would not agree. 13 Q. Well, if FDA sets certain rules, 14 you'd agree that states are allowed to impose 15 higher rules so long as they don't contradict the 16 FDA rules? 17 A. I don't know the answer to that. 18 Q. Okay, fair enough. Does the FDA when 19 you were there do any actual testing of the 20 products as to efficacy and safety on their own? 21 A. No. 22 Q. They would rely upon the 23 pharmaceutical company to do those tests? 24 A. They would rely upon the 25 pharmaceutical company to do the clinical</p>	<p style="text-align: right;">16</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Yes. 3 Q. Besides OxyContin, did you work on 4 any other Purdue Pharma or Purdue Frederick drugs 5 while you were at the FDA? 6 A. Yes. 7 Q. Which ones? 8 A. MS Contin, some strengths of MS 9 Contin. 10 Q. Do you remember who was your contact 11 at Purdue -- I'm going to use Purdue to refer to 12 Purdue Pharma and Purdue Frederick. 13 Do you remember who your contact was 14 at Purdue? 15 MR. STRAUBER: With respect to MS 16 Contin? 17 MR. McNAMARA: Yes. 18 A. I think that would have been Buddy 19 Prettiman. 20 Q. And your contact with regards to 21 OxyContin, was that Dr. Reder? 22 A. The medical contact with respect to 23 OxyContin was Dr. Reder, but I honestly can't 24 remember who the regulatory contact was. 25 Q. Now, when you got the call from the</p>
<p style="text-align: right;">14</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 testing, although the FDA laboratories would test 3 the purity of the product and conduct additional 4 pharmacology testing when asked and indicated. 5 Q. It wouldn't ever do any clinical 6 studies on its own, correct? 7 A. I don't know how to answer that. 8 Q. Okay. 9 A. There were a number of programs that 10 the agency ran as part of initiatives to improve 11 drug therapy where the agency would provide 12 grants and support for clinical studies in areas 13 where new knowledge was considered important. 14 Q. Back when you were a team leader for 15 the drug abuse staff, do you remember how many 16 drugs you were responsible for? 17 A. At one time? 18 Q. Let's say in '95. 19 MR. STRAUBER: Are you asking him at 20 one time in '95 or cumulative over '95? 21 Q. During '95, how many drugs would you 22 say you were responsible for? 23 A. I never counted it that way. And 24 they varied tremendously by the amount of time 25 they required. I would say that I had three,</p>	<p style="text-align: right;">17</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 recruiter about Purdue Pharma, did you contact 3 anyone at Purdue Pharma? 4 A. He contacted Purdue Pharma and said 5 that I give them a call. And I called 6 Dr. Reder. 7 Q. Had you had any contact with 8 Dr. Reder from I guess '97 until that call? 9 A. No. 10 Q. Did you mention to him that you were 11 looking to leave Adolor? 12 A. Yes. That's why I called. 13 Q. Do you remember the name of the 14 recruiter in the firm? 15 A. No. I could find it out. I've only 16 met him once. 17 Q. Did you interview with any other 18 firms besides Purdue when you were leaving 19 Adolor? 20 A. No. They were the first one to 21 call. 22 Q. When you were at FDA, was part of 23 your role in approving a product's package 24 insert? 25 MR. STRAUBER: I object to the form</p>
<p style="text-align: right;">15</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 maybe four that required significant amounts of 3 time. 4 Q. You mentioned the drug abuse staff. 5 How many persons were on the drug abuse staff, if 6 you recall? 7 A. It varied from year to year. I'm 8 having to figure it out. Anywhere between four 9 and seven. I'm not counting the consumer safety 10 officers who were not technical staff. 11 Q. What is a consumer safety officer? 12 A. Consumer safety officers are the 13 individual who handle the actual interface with 14 industry. Manage the files, manage the 15 submissions and are the regulatory specialists 16 that guide the scientists in conforming to agency 17 rules. 18 Q. Now, the clinical studies that you 19 had examined for prospective new drug 20 application, the FDA doesn't design clinical 21 studies, does it? 22 A. No. 23 Q. And that's the ultimate 24 responsibility of the sponsor, the pharmaceutical 25 company?</p>	<p style="text-align: right;">18</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 of the question. I'm not sure I understand what 3 you said. But he can answer it. 4 Q. If you understand what I said. 5 A. I was one of the people who looked at 6 the package insert when it came in. But I was 7 not the person who approved it and I was not the 8 only person who looked at the package insert. 9 There were six, seven, sometimes as many as 10 twelve people who reviewed the package insert 11 before it was finally accepted. 12 Q. Who would be the ultimate person who 13 would sign off on it? 14 A. Bob Bedford, the division director. 15 Q. Do you know from your regulatory 16 training generally what the significance of the 17 package insert is? 18 A. Yes. 19 Q. Could you explain. 20 A. Package insert has several 21 functions. Its most important function is to try 22 to communicate to physicians in an orderly 23 readable way what the company knows about the 24 drug at the time they put it on the market and 25 anything they may learn subsequent to that.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">19</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 It is also a document that's made 3 available to the public through various media 4 that contains the initial summary of the 5 information about the drug when it's first put on 6 the market and other sources of information that 7 have not yet been developed. It's used by the 8 division of drug advertising as a standard 9 against which they evaluate the promotional 10 activities of the company. And it's how a 11 patient, if they were scientifically inclined, 12 would -- it's where they would go to to look it 13 up to know. 14 Q. The division of drug advertising, how 15 would they use the product label with regards to 16 promotion, if you know? 17 A. It is not an area of my expertise. I 18 never worked there. But in general, they would 19 look at the label and try to determine if the 20 promotional material was fair and balanced with 21 respect to the approved labeling. 22 Q. Now, if the promotion material 23 contained claims that were not within the 24 approved labeling, would that be a problem? 25 A. I think that would be a problem.</p>	<p style="text-align: right;">22</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 memorialize the conversation in some way? 3 A. The consumer safety officer would. 4 We never met individually with representatives of 5 pharmaceutical firms. One of the requirements is 6 that it a consumer safety officer be present and 7 the consumer safety officer was tasked with 8 maintaining the records of such things. 9 Q. What about telephone conversations? 10 A. Same thing. They would either 11 arrange the call or be present during the call. 12 Q. So if Dr. Reder wanted to call you up 13 and ask you a question about OxyContin, he would 14 have to go through the consumer safety officer? 15 A. He would call a consumer safety 16 officer, and he and the consumer safety office 17 would tell him Reder wanted to call, and we would 18 talk. 19 Q. Do you remember who was the consumer 20 safety officer on OxyContin? 21 A. I think it was Bonnie McNeal. 22 Q. When you left FDA did you take any -- 23 well, let me back up. 24 Did you ever see any -- Ms. McNeal 25 was in charge of memorializing the conversations</p>
<p style="text-align: right;">20</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Do you know if Purdue Pharma ever 3 made safety or efficacy claims beyond that 4 supporting the OxyContin label? 5 A. I don't know. 6 (Wright Exhibit 1 for identification, 7 Notice of Deposition.) 8 Q. Dr. Wright, you've been handed what 9 is marked Exhibit 1, which is a notice of 10 deposition for you. Have you ever seen this 11 document before? 12 A. No. 13 Q. Turning to page 2, there's a list of 14 items that we had asked your counsel to direct 15 you to bring: current CV or resume, all 16 communications and documents which, as enumerated 17 below, relate to the design and execution of 18 clinical trials for OxyContin, OxyContin's 19 product launch, OxyContin's product labeling, et 20 cetera. 21 Do you have any of those items with 22 you today? 23 A. No. I don't have any of those items 24 at all with respect to the material I had when I 25 was at the FDA.</p>	<p style="text-align: right;">23</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 as well? 3 A. Yes. 4 Q. And do you know how she would do 5 that? 6 A. No. That was her job. 7 Q. If you had a conversation, say, with 8 Dr. Reder and you wanted to see what was said, 9 would you call Ms. McNeal and ask to look at some 10 notes that she took? 11 A. I'd ask her. 12 Q. Do you recall ever seeing any e-mails 13 or notes or any other communications from her on 14 those conversations? 15 A. No. 16 Q. Was there an instance where you did 17 ask Ms. McNeal if you could see the notes taken 18 from a particular conversation you had, say, with 19 Dr. Reder? 20 A. I would not think so. 21 Q. When you left FDA, did you make any 22 materials with you with regards to OxyContin? 23 A. No. May I amplify on that answer? 24 Q. Please. 25 A. When I left FDA they have a very</p>
<p style="text-align: right;">21</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 MR. STRAUBER: I would just like to 3 note for the record that this listing of 4 documents that's part of the notice of deposition 5 of Dr. Wright was served very late in the game. 6 Our time to respond has not yet expired. 7 We intend to respond to it. And over 8 the past months Purdue has produced tens of 9 thousands of documents to the plaintiffs pursuant 10 to earlier document demands. 11 MR. McNAMARA: Just for the record, 12 this is dated June 30th, right? Looking at the 13 last page. 14 MR. STRAUBER: It has the typewritten 15 date June 30th, that's correct. 16 Q. Dr. Wright, when you were at FDA, did 17 you keep -- well, like I do here, a personal 18 notebook of your notes? 19 A. No. 20 Q. Did you keep a diary or calendar? 21 A. No. 22 Q. Do you have an appointment book? 23 A. No, not personally. 24 Q. If you met with a person from a drug 25 company and had a discussion, would you</p>	<p style="text-align: right;">24</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 strict checkout procedure. And I was instructed 3 that I was not to take any notes, memoranda, 4 paper, documents, files or anything else 5 pertaining to my work when I was at FDA with me. 6 That that belonged to the government, not to me. 7 And I followed those instructions. 8 Q. Very well. While you were at FDA, 9 were you ever disciplined for any reason? 10 A. No. 11 Q. We kind of passed over it because we 12 didn't do -- you have your own personal lawyer 13 here today, correct? 14 A. Yes. 15 Q. Do you know who's paying for that 16 lawyer? 17 A. Purdue. 18 Q. About how long did you take timewise 19 to prepare for the deposition today? 20 A. I don't know exactly. It was about 21 three sessions. 22 Q. Do you remember how long the sessions 23 were? 24 A. They could last up to three or four 25 or five hours.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">25</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Without disclosing what was 3 discussed, do you remember who was at those 4 sessions? 5 A. Yes, I remember who was at those 6 sessions. 7 Q. Could you give me their names. 8 A. I can say that they were attorneys 9 for Chadbourne & Parke that are present in the 10 room. Joel Hoffman was present for two of the 11 sessions, and one or two attorneys from Purdue 12 were present at various times. 13 Q. Did you talk to anyone who was 14 previously deposed in this case about their 15 deposition? 16 A. No. 17 Q. Have you reviewed the deposition 18 transcripts of anyone who was previously deposed 19 in this case? 20 A. No. 21 Q. You had mentioned that you had had I 22 guess a couple instances of training in the area 23 of substance abuse, correct? 24 A. Yes, sir. 25 Q. Including a master's in public</p>	<p style="text-align: right;">28</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 dispensing narcotics to a known addict. 3 Q. In terms of the patients, is there a 4 higher chance of relapse with someone who's got a 5 history of substance abuse? 6 A. Yes. 7 Q. And being treated with opioids for 8 pain. 9 A. Yes. 10 Q. And did you witness that happen, that 11 pain patients go for relapse or by the time they 12 got to you they already relapsed? 13 A. I don't know how to answer that 14 question. I knew — I had no personal experience 15 with patients who were properly treated whose 16 addiction relapsed, who went out of remission in 17 the course of proper treatment. But it was 18 always of concern. 19 Q. Do you think it's appropriate to tell 20 patients taking opioids that addiction may 21 occur? 22 A. Of course. 23 Q. Do you think addiction is an 24 important concern for patients taking opioids? 25 A. I don't understand the question.</p>
<p style="text-align: right;">26</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 health. Was that devoted mostly towards 3 substance abuse or was it general? 4 A. The master's in public health at 5 Hopkins contains both compulsory and optional 6 components. When I was at Hopkins during the MPH 7 years I took elective training in the 8 epidemiology of substance abuse, advanced 9 training in statistics and epidemiology and had a 10 number of other clinical and scientific training 11 experiences relevant to alcohol and drug abuse. 12 Q. Did you ever treat patients who were 13 alcoholics or drug addicts? 14 A. Oh, yes. 15 Q. Did you ever treat pain patients who 16 were also alcoholics and drug addicts? 17 A. Yes. 18 Q. Any idea on the numbers? 19 A. During the time that I was medical 20 officer for the treatment facility I treated 21 about 2,000 patients with alcoholism and drug 22 dependency. During the years that I was at 23 Hopkins I supported the family by moonlighting as 24 the physician in charge, the physician for a 25 number of local area rehabs. And I'd say I</p>	<p style="text-align: right;">29</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Okay. 3 A. If you're asking is it a patient's 4 concern, I think it's often a patient's concern. 5 If you're asking is it a realistic concern for 6 the physician, addiction to improperly managed 7 patients is uncommon. 8 Q. Sorry, addiction to improperly — 9 A. No, addiction in properly managed 10 pain patients is uncommon. 11 Q. Is it more common in improperly 12 managed pain patients? 13 A. I believe so. 14 Q. Can you explain how that would happen 15 between a properly and improperly — how that 16 would affect the chances for addiction? 17 A. I'll try. 18 Q. Okay. 19 A. To properly manage a patient with a 20 pain using any drug, but especially opioid drugs, 21 there are elements that are described by the 22 consensus boards, either the state boards of 23 medicine or the DEA or the American Healthcare 24 Practice Guidelines, that say that you should — 25 you need to assess the patient, you need to</p>
<p style="text-align: right;">27</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 treated an additional 2 or 300. 3 When I was at Bethesda as the senior 4 physician on the alcoholism and drug abuser 5 advice, I was called into consultation on 50, 100 6 cases involving individuals who had pain and 7 chemical dependency. 8 I have never been a practicing pain 9 specialist. Most of my clinical experience was 10 as a general practitioner. 11 Q. Did you in your experience find that 12 there were additional problems — let me rephrase 13 that. That there was additional complications 14 with treating a pain patient who also had a 15 substance abuse problem? 16 A. Yes. 17 Q. Can you explain some of those 18 problems? 19 A. There were a number of them. The 20 treating physicians were generally quite 21 uncomfortable with administering addictive drugs 22 to someone who had had an addictive problem. 23 They were often uncertain in how to interpret the 24 patient's response to treatment and they were 25 sometimes concerned about any legal liability for</p>	<p style="text-align: right;">30</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 examine the reasons for the patient's pain as 3 best you can, you need to take a history and do a 4 physical, you need to formulate a treatment plan, 5 you need to initiate therapy, you need to follow 6 them up and you need to reevaluate how your 7 therapy is doing. 8 For most of the states that I've 9 practiced in, when you're treating an individual 10 very long-term with opiates or you're treating a 11 patient whose case is complicated by chemical 12 dependency, there are suggestions that you may 13 wish to seek appropriate consultation at periodic 14 intervals to make sure your practice is on the 15 beam. 16 Q. If the prescribing physician doesn't 17 take those steps, there's a greater chance that 18 addiction may occur if there's not that 19 professional there to make sure that the 20 appropriate guidelines are followed? 21 A. That's not really known. What is 22 known is that these are the steps that the state 23 boards and the medical community believe to be 24 necessary to keep the risk of that happening to a 25 minimum.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">31</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Can you give me an example of how an 3 improperly managed pain patient could become 4 addicted as opposed to a properly managed pain 5 patient? 6 MR. STRAUBER: I object to the form 7 of the question. He can answer it. 8 A. I'd have to go back into history. Is 9 that okay? Is that acceptable? 10 Q. Sure. 11 A. Prior to the existence of the 12 Controlled Substances Act and the beginning of 13 the evolution of both legal and regulatory 14 controls on narcotics prescribing, it was 15 possible for patients to obtain drugs directly 16 from a drugstore, and it was relatively common 17 for physicians to provide a large bottle of 18 narcotic, a hypodermic syringe and instructions 19 to take this medication when you needed it. 20 That practice was associated with a 21 high rate of dependence in patients who probably 22 would not have developed dependence in modern 23 practice. 24 In addition, drugs leaked out of that 25 kind of distribution system and became traded as</p>	<p style="text-align: right;">34</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 communications from their state board of 3 medicine. It's certainly part of the training; 4 these principles were part of my basic training 5 in pharmacology in medical school and they 6 pertain to all drugs, but they are perceived as 7 being particularly useful in opioids. 8 Q. We talked a little bit about drug 9 abuse. Can you define for me what abuse 10 liability means? 11 A. No. 12 Q. Have you ever heard the phrase "abuse 13 liability"? 14 A. Yes. My difficulty is that it's used 15 by many different people in many different 16 contexts to mean many different things. 17 Q. Okay. 18 A. In the medical context abuse 19 liability could mean the liability that a patient 20 who is being treated with a drug would begin to 21 abuse the drug. 22 In a legal context it could easily 23 mean the propensity of people with drug abuse 24 problems to seek out the drug and abuse it. Both 25 occur.</p>
<p style="text-align: right;">32</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 drugs of abuse to get high by people who weren't 3 sick. 4 I've studied the evolution of these 5 controls and each step of the way it's perceived 6 that a new level of control has been added and 7 has addressed what are perceived problems as 8 society changes and grows. 9 Q. If I can sort of try to take some of 10 the parts of your answer and I guess get somewhat 11 of a paradigm, part of the distinction between 12 the properly and the improperly managed pain 13 patient which could affect the likelihood of 14 addiction would include things like careful 15 monitoring of the patient by the prescribing 16 physician in terms of how much drug they're 17 taking. Would that be one thing -- 18 A. And how they're doing with it. 19 Q. Well, how do you mean by that? 20 A. If you start a patient on drug 21 therapy, and it doesn't matter which drug, some 22 will respond, some won't. Some will do well, 23 some will not. Critical to keeping a patient out 24 of trouble with a medicine is to look for adverse 25 events, look for the response to therapy and</p>	<p style="text-align: right;">35</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. This would help explain I guess 3 somewhat of a dichotomy between what might be 4 called the Schedule II abuse liability of a drug 5 and a drug's natural abuse liability, correct? 6 A. Yes, sir. 7 Q. The Schedule II abuse liability would 8 probably -- you're familiar with that term from 9 the scheduling of controlled substances? 10 A. Yes. 11 Q. That would refer to the legal side of 12 it, the propensity of addicts or abusers to seek 13 out the drug, as opposed to the medical? 14 A. More. It would be more the need for 15 control by law as determined by the eight factors 16 that govern what schedule you should put a drug 17 in. 18 Q. In terms of -- and I've called it the 19 medical liability. I guess you have, too. In 20 terms of the medical abuse liability of a drug, 21 what factors go into that, do you know? 22 A. A great many. The nature of the 23 drug, the class itself, what therapeutic class it 24 belongs in. The pharmacokinetics of the drug; is 25 it absorbed, does it get into the circulation,</p>
<p style="text-align: right;">33</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 making a judgment for that patient in that 3 individual patient whether the benefits that 4 you're observing for the patient and the patient 5 tells you about are worth the risks posed by the 6 drug. 7 Q. We've got assessment of the patient, 8 both how much they're taking and how they're 9 doing on it -- 10 A. History, physical, diagnostic work as 11 appropriate, development of a treatment plan, 12 trial of -- initiation of therapy, periodic 13 assessment, modification of therapy as required 14 and consultation when appropriate. 15 Q. And these are the kind of guidelines 16 that are out there for prescribers of controlled 17 substances that include some of the things you 18 just mentioned? 19 A. I think those elements are available 20 to practitioners in the Healthcare Practice 21 Guidelines published by the federal government, 22 the pain treatment guidelines from the American 23 Pain Society, and in many states, the states that 24 I've been licensed in, are also periodically 25 provided to providers in the form of</p>	<p style="text-align: right;">36</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 does it get into the brain. The nature of the 3 dosage form. 4 We would anticipate a different abuse 5 liability for patients for drugs that were 6 formulated as nasal sprays or inhaled 7 particulates or oral solid dosage forms or 8 transmucosal dosage forms or transdermal patches, 9 each of which you might anticipate posed a 10 different degree of risk to the patient. What 11 the consequences -- what the pharmacologic 12 actions of the drug are and what the consequences 13 of exposure to the drug are. Whether the drug 14 is -- who the drug's being used in, what their 15 intrinsic vulnerability is, what the social 16 context of use is. 17 All of these things interact to 18 result in a level of risk that someone will 19 receive a drug medicinally and will -- and the 20 degree to which they're at risk that they're 21 going to begin to abuse the drug. 22 Q. What about -- you mentioned a little 23 bit about dosage form. What about the amount of 24 dose, would that factor into a medical abuse 25 liability? Or I should say the amount of the</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">37</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 dose you could ingest at one time. 3 MR. STRAUBER: I object to the form 4 of that question. I don't understand it. If the 5 witness understands it, you can respond. 6 A. I don't understand the question. 7 Could you help me understand it? 8 Q. Sure. How I often used to hear some 9 alcoholics describe it, it's speed in volume. 10 How fast you ingest it and how much you ingest 11 it. Would that also factor into the abuse 12 liability of a drug? 13 A. I thought I just said that. But 14 you're blurring it to me because you're talking 15 about alcoholics and we're talking about patients 16 previously. 17 For a patient, I would anticipate 18 that the amount of drug prescribed was adjusted 19 by the practitioner to the appropriate amount of 20 drug for the patient's weight, size, general 21 state of health, all of the other things that 22 would make you pick a dose for somebody. You 23 might give since you're a thinner man than I am, 24 you might give you less drug than you might give 25 me to achieve the same effect.</p>	<p style="text-align: right;">40</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. No. 3 Q. Oxycodone's higher? 4 A. Yes. 5 Q. What about oxycodone and codeine, 6 which one has the higher medical abuse 7 liability? 8 A. For patients or in terms of the 9 society as a social problem? 10 Q. I'm trying to focus on medical abuse 11 liability as opposed to, say, I guess the legal 12 abuse liability -- I know what they're scheduled 13 as, but I meant for a patient getting the drug, 14 Presumably legitimately for pain. 15 A. For equivalent doses, therapeutically 16 equivalent doses, I think -- I truly don't know 17 on that one. Codeine is a complex drug that has 18 significantly different effects due to the 19 pharmacogenetics of the individual involved 20 because it's actually in some people a pro drug. 21 So that would be a toughy. That one would depend 22 on the individual. 23 Q. Do you know of any opioids that have 24 a higher abuse potential, let's say on a 25 milligram per milligram basis, than oxycodone?</p>
<p style="text-align: right;">38</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 That's very different when you're 3 talking about diversion and abuse by someone who 4 is intentionally diverting the drug. For 5 intentional drug diverters, the bigger the pill, 6 the better. 7 Q. Do oxycodone and morphine have the 8 same abuse potential medically? 9 A. Probably not. 10 Q. Which one would have a higher -- or 11 which one would have a higher medical abuse 12 potential? 13 A. Parenterally, they're probably about 14 the same. If you inject them, they're probably 15 about the same. Orally, you could argue that 16 oxycodone because of its higher bioavailability 17 will get you a higher blood level and may have 18 higher abuse liability. But no one's ever shown 19 a difference in drugs that are so close. 20 Q. You mentioned a higher blood level. 21 I've never actually seen a pharmacokinetic blood 22 level -- blood plasma versus time for morphine. 23 Let's talk orally, does oxycodone have a higher 24 level than, say, morphine sulfate? 25 A. I don't know. It's hard to assess --</p>	<p style="text-align: right;">41</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Oh, yes. 3 Q. Which ones? 4 A. Fentanyl, etorphine, hydromorphone, 5 levorphanol, and a whole list of others that 6 aren't common in medical practice anymore. 7 Q. Now, do you know how abuse potential 8 for a drug is scientifically demonstrated? Are 9 there studies specific to abuse potential? 10 A. There are studies very specific to 11 abuse potential, both animal and human. 12 Q. In terms of the human ones, have you 13 ever participated in any of those kinds of 14 studies? 15 A. As the investigator, never as the 16 subject. 17 Q. Fair enough. 18 MR. STRAUBER: When you reach a 19 convenient point, can we take a morning break? 20 MR. McNAMARA: Why don't we do it 21 right now. 22 (Recess taken.) 23 BY MR. McNAMARA: 24 Q. Dr. Wright, we talked a little bit 25 about abuse potential studies. You had mentioned</p>
<p style="text-align: right;">39</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 well, for morphine -- I don't know. 3 Q. In terms of time to peak level, do 4 you know if oxycodone orally reaches a peak blood 5 plasma level faster than morphine sulfate? 6 A. Are these immediate release dosage 7 forms? 8 Q. Let's say they're both immediate 9 release. 10 A. I would anticipate their time to peak 11 to be about the same. 12 Q. What about for controlled release? 13 A. Depends on the controlled release 14 formulation. They come in -- morphine comes in 15 many different controlled release formulations. 16 Q. Let's talk about OxyContin and MS 17 Contin. Do you know if there's a difference 18 between the time to peak plasma between MS Contin 19 and OxyContin? 20 A. I know they're about roughly the same 21 magnitude. I don't know precisely to the minute 22 how they vary. 23 Q. I asked you about oxycodone and 24 morphine. What about oxycodone and Tramadol, do 25 they have the same medical abuse liability?</p>	<p style="text-align: right;">42</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 that you had worked as an investigator on some. 3 Do you know how many? 4 A. Personally as an investigator? Four 5 or five. 6 Q. Could you describe generally how 7 these studies are done? 8 A. The human studies. 9 Q. The human studies. 10 A. There's about four or five different 11 actual scientific methods that are used, and they 12 are technical and I don't think I need to go into 13 those. 14 Q. Okay. 15 A. The general strategy for these 16 studies is to find someone who either knows what 17 the subjective effects of an abusable drug are, 18 they're a former drug abuser, or to take someone 19 and train them into what the subjective effects 20 of an abusable drug are. That technology was 21 done in the investigations of caffeine, for 22 example. Or drugs that are not recognized as 23 having high abuse potential. 24 Then using a variety of 25 methodologies, you test several doses of the drug</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">43</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 of interest. Placebo and usually several doses 3 of a comparative drug, measuring subjective 4 effect and often trying to measure physiologic 5 effect and unpleasant or dysphoric effects as 6 well. Trying to find out where on a continuum 7 this compound lies relative to others. 8 Q. Did you do some of that work at 9 John's Hopkins? 10 A. Yes. 11 Q. Did you ever do work with a Donald 12 Jasinski? 13 A. No. I say no. He was never my 14 principal investigator. 15 Q. Okay. 16 A. But during my time at Hopkins I met 17 with Don, I knew Don. Subsequent to my time at 18 the FDA when I was in private industry, I worked 19 with Don on a number of questions pertaining to 20 abuse liability. 21 Q. Now, you mentioned subsequent to your 22 leaving, would that be work that you did at 23 Purdue with Dr. Jasinski? 24 A. Some was work at Purdue with 25 Dr. Jasinski and some was discussions at Adolor</p>	<p style="text-align: right;">46</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 my knowledge, available in the American market. 3 I think bulk hydrocodone is a Schedule II. But 4 hydrocodone in combination with aspirin or 5 Tylenol is a Schedule III, or hydrocodone in a 6 cough syrup formulation is a Schedule III. 7 There's considerable dispute in the 8 addiction sciences communally as to whether 9 hydrocodone needs to be a II or it needs to be a 10 III. So that's why I'm having trouble answering 11 that precisely. 12 Q. That's fine. Oftentimes is morphine 13 used as a comparator drug in abuse potential 14 studies? 15 A. Relatively infrequently. But it 16 depends on the period of history. In the 1940s, 17 '50s and '60s morphine was the gold standard as 18 a comparator drug. As technologies changed and 19 as interests in abuse liability, not just by 20 injecting a drug but by taking pills as well, 21 began to emerge, people began to use drugs with a 22 higher oral bioavailability as their comparator 23 drugs. So they began to use hydromorphone, 24 hydrocodone, oxycodone because it had a more 25 predictable oral bioavailability than morphine.</p>
<p style="text-align: right;">44</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 with Dr. Jasinski. 3 Q. With regards to Purdue, would this 4 involve a hydrocodone with Naltrexone product? 5 A. Yes. 6 Q. Are you working with Dr. Kramer on 7 that product? Dr. Lynn Kramer. 8 A. Working for Dr. Lynn Kramer. I'm not 9 actively currently assigned to that product. I 10 was assigned to that product and to drugs of that 11 type in general during my first four years with 12 Purdue. 13 Q. Since you've been at Purdue, have you 14 been involved either as investigator or 15 supervising any abuse potential studies? 16 A. Oh, yes. 17 Q. Do you have an idea how many? 18 A. Ten. 19 Q. Would one of those drugs be the 20 hydrocodone with Naltrexone product? 21 A. Yes. 22 Q. Do you recall some of the others? 23 A. Many of the others weren't specific 24 to -- many of them used hydrocodone but not with 25 respect to a specific product. We used</p>	<p style="text-align: right;">47</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Morphine's a somewhat variable. 3 Q. In the ten or so studies -- well, is 4 it ten drugs or ten studies? 5 A. Ten studies. 6 Q. In the ten or so studies, have you 7 used hydrocodone as the only comparator drug? 8 A. I have to think. In the studies that 9 have actually been completed to date, hydrocodone 10 is the only comparator drug. I believe that some 11 of the other studies that are sort of half done 12 are using oxycodone as a comparator drug. 13 Q. In any of those studies was oxycodone 14 used in comparison with hydrocodone to determine 15 abuse potential? 16 A. No. The studies were not focused on 17 trying to determine the relative abuse potential 18 of the two drugs but to try to determine the 19 extent to which altering the formulation or 20 including an opioid antagonist could either 21 improve the safety or decrease the toxicity or 22 reduce the abuse liability or increase the tamper 23 resistance of these kinds of drugs. 24 Q. Was an oxycodone with Naloxone 25 product compared to hydrocodone?</p>
<p style="text-align: right;">45</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 hydrocodone as a prototype opioid because it has 3 the highest abuse rate -- rate is not the right 4 word. It's such a problem drug of abuse in 5 America today. And we -- most of the studies 6 were basic science studies trying to determine 7 proof of principle to see if it was technically 8 possible to preserve analgesia while providing 9 some deterrence for abuse. 10 Q. So then these would be -- well, you 11 mentioned a known comparator. Did you use 12 hydrocodone as the known comparator in your 13 studies? 14 A. Yes. Hydrocodone was the standard 15 opioid. 16 Q. And I guess that's an example of -- 17 it's a Schedule III drug, correct? 18 A. Yes. 19 Q. Even though it's a Schedule III drug 20 it still has from a medical abuse liability 21 standpoint a pretty high degree of liability. 22 A. Hydrocodone is an anomaly. 23 Hydrocodone I believe, I would have to check the 24 law, there is no single entity hydrocodone 25 product other than cough syrups, to the best of</p>	<p style="text-align: right;">48</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. No. 3 Q. What about oxycodone with Naltrexone 4 product? 5 A. No. I don't think we've run any 6 oxycodone/hydrocodone head-to-head comparisons. 7 Q. What about oxycodone/Naltrexone or 8 Naloxone against oxycodone? 9 A. I think that one's on the books. 10 Q. When you say on the books, it's been 11 completed or it's being worked on? 12 A. Yes. 13 Q. You're not working on that? 14 A. No. What happened was when -- and 15 this is my perception. The company may feel 16 differently, I don't know. But when I started at 17 Purdue, the science of tamper resistant dosage 18 forms was not well developed. At that point in 19 time it was new science for the company. They 20 were interested in it, they wanted to work on it 21 and I had every one of these products. 22 As the products matured and we began 23 to get technology that worked and we began to get 24 technology that might work -- worked on the bench 25 and we began to get technology that might work in</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">49</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 the clinic, other senior clinicians in the 3 company saw these as potentially exciting 4 products and began to ask if I would let them 5 have some. 6 And at the same time when this risk 7 assessment initiative came up with the FDA, they 8 said who do we got who could handle that, and so 9 that was me. They became normal products and 10 they are now in what I would call normal 11 development. 12 Q. You mentioned that the technology had 13 not been developed, or was it the department you 14 were referring to hadn't had a lot of experience 15 with antagonist/agonist products? 16 A. The company did not have much 17 experience with agonist/antagonist products. And 18 there are huge gaps in the science pertaining to 19 agonist/antagonist products. The products that 20 have been developed are pretty primitive and have 21 very limited application. 22 I think there's potential in this 23 area. It has turned out to be trickier science 24 than I imagined, certainly. 25 Q. Generally speaking, the abuse</p>	<p style="text-align: right;">52</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. About how long do these studies 3 take? 4 A. They are very variable. One of the 5 studies in which we were actually trying to look 6 at the effect of dosage form, would the drug in 7 this dosage form be different from the drug 8 injected, took over two years to enroll the study 9 and about three-quarters of a year to analyze the 10 results and write them up. 11 Q. When you're saying these dosage 12 forms, were those ones with an 13 antagonist/agonist? 14 A. That was not. May I stop for a 15 second here? I want to ask the Purdue attorneys 16 something. What do I do? 17 MR. STRAUBER: Can we go off the 18 record? 19 MR. McNAMARA: Yes. 20 (Recess taken.) 21 BY MR. McNAMARA: 22 Q. Were these drugs with 23 antagonist/agonist? 24 A. No, that was a comparison of a 25 controlled release dosage form with an immediate</p>
<p style="text-align: right;">50</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 potential studies that you've been working on at 3 Purdue, you mentioned there's four or five 4 different technical ways that they could be 5 done. What is the general way that they're being 6 done at Purdue? 7 A. Maybe it would be -- I don't know how 8 to answer that because each one is different. 9 All of them are using subjective effects 10 measurement. Asking people who should know what 11 drug effects are like. So they're selected as 12 people who say yes, I know what drug effects are 13 like, yes, I have abused drugs in the past, yes, 14 I can tell what high is. And then giving them a 15 series of doses of opioid in a controlled and 16 blinded fashion to see if that's true, to see if 17 they can tell the difference between opioid and 18 placebo and if they can tell the difference 19 between different doses of opioid. 20 Then beginning the experimental part 21 of the study, looking to see if you can modify 22 that abuse liability in any way, if you can make 23 the drug less attractive or if you -- if somebody 24 will develop withdrawal symptoms if they're 25 physically dependent, or see if the ratio of good</p>	<p style="text-align: right;">53</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 release dosage form. 3 Q. Is this related to a hydromorphone 4 product? 5 A. No. 6 Q. Do you know what the results were 7 comparing that controlled release dosage form 8 with immediate release dosage form? 9 A. Yes. 10 Q. What were those results? 11 A. The perceived ratings of liking, 12 drug-liking, were substantially lower with the 13 controlled release dosage form relative to the 14 immediate release dosage form. 15 Q. Can you tell me the drug that was 16 used for the controlled release dosage form? 17 A. Buprenorphine. 18 Q. Buprenorphine is a mixed 19 agonist/antagonist, correct? 20 A. Yes. 21 Q. So it has within it its own 22 somewhat -- well, why don't you explain what a 23 mixed agonist/antagonist is. 24 A. Some opioids as you give larger and 25 larger doses begin to act as their own antidote.</p>
<p style="text-align: right;">51</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 effects to bad effects can be modified. In some 3 cases it's basic safety studies to see if the 4 risk of overdose for somebody who took the 5 drug -- you know, a kid who took the drug, see if 6 you can lower their risk of overdose. 7 Q. You mentioned subjective effects. Is 8 there a questionnaire that they'd be asked about 9 certain effects? 10 A. There's several different kinds of 11 questionnaires. There are what are -- the most 12 common portfolio, which is used by most of the 13 NIDA investigators but which is unfortunately not 14 perfectly standard from laboratory to laboratory, 15 is what are called visual analog scales where you 16 give somebody essentially a thermometer and you 17 say how high are you, or how much do you like the 18 drug, or how much would you pay for this drug. 19 And then there are adjective 20 checklists that say how much do you feel any of 21 the following. And those adjective checklists 22 are woozy, dizzy, fuzzy, muzzy. There's a whole 23 list of things that people can feel when they're 24 taking drugs and check them and check how much 25 you feel.</p>	<p style="text-align: right;">54</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 So that the drug effects from the drug, instead 3 of going up and up and up and up with increasing 4 dose begin to level off. 5 Buprenorphine is such a drug. That 6 leveling off for Buprenorphine takes place at 7 fairly high levels of the drug. In the low dose 8 range it acts more like a pure agonist. In the 9 mid dose range it acts like an 10 agonist/antagonist, and in the high dose range it 11 can actually have antagonist effects to other 12 opioids. Is that clear? 13 Q. Okay. And the antagonist effects 14 would mean they would precipitate withdrawal? 15 A. Yes. 16 Q. Would it also not be as effective as 17 an analgesic? 18 A. Yes. 19 Q. Do you have any idea how much abuse 20 potential study comparing Buprenorphine to the 21 immediate release opioid was? How much it cost? 22 A. No. 23 Q. Do you know who was in charge of that 24 study? 25 A. Yes.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">55</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Would that be Dr. Kramer? 3 A. No. 4 Q. Dr. Reder? 5 A. No. 6 Q. Why don't you tell me the name. I've 7 exhausted my supply of medical directors. 8 A. During that period of time, for most 9 of that study, that study was being run by a 10 scientist named Dr. Christopher Breder. 11 Q. Is he still with Purdue Pharma? 12 A. No. 13 Q. Do you know when he left? 14 A. Last year. 15 Q. Do you know who is in charge of that 16 product now? 17 A. As the clinical leader? 18 Q. Yes. 19 A. I would say Steve Ripa. 20 Q. We've been talking a little bit about 21 abuse liability. We've used the phrase 22 "addiction liability." Have you ever heard that 23 phrase? 24 A. I don't remember it. It's not a 25 common phrase.</p>	<p style="text-align: right;">58</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. For everyone but a pain patient. 3 Q. For a pain patient it's not a symptom 4 at all? 5 A. It becomes tricky. If someone -- and 6 this is a scientific dilemma and I don't think 7 anyone's answered it yet. There are certain -- 8 when the DSM 3 R was developed, this is a manual 9 for how to diagnose and classify disorders for 10 research, it placed a great stress on being able 11 to operationalize definitions of disease. Make a 12 list, make a scoring system, create a checklist. 13 So instead of a concept, addiction is this, they 14 began to develop multidimensional scoring systems 15 for many disorders, for character disorders, 16 thought disorders, addictive disorders, in an 17 attempt to improve the specificity of diagnosis. 18 Those checklists work well when 19 someone has one disorder, and they work well when 20 an individual's behavior is not complicated by 21 treatment. But in many of the behavioral 22 disorders, when you have two things going on it 23 becomes very difficult. Some drugs that affect 24 your mood will also cloud your thinking. You 25 asked me that question when we started the</p>
<p style="text-align: right;">56</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Addiction is distinct from abuse, 3 correct? 4 A. Yes. 5 Q. Is it a subset or just a completely 6 different phenomenon? 7 A. It is a difficult question to 8 answer. Almost all addiction, perhaps all 9 addiction, starts out as abuse. Self 10 administration for nonmedical purposes. Some 11 individuals, for the reasons that we discussed 12 earlier this morning, once they begin a drug 13 abuse go on to develop the brain changes 14 characteristic of addiction. 15 Q. Do you know what some of those brain 16 changes are? 17 A. I know how they manifest themselves. 18 You'd have to get someone from the National 19 Institutes on Drug Abuse to talk about their 20 current research in that area. 21 Q. Well, let's focus on the 22 manifestation as opposed to the neurobiological 23 aspects. What are some of the manifestations? 24 A. The premiere manifestation of 25 addiction distinct from abuse is the loss of</p>	<p style="text-align: right;">59</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 deposition today. So if you could easily -- if 3 you didn't know someone was taking the drug, you 4 could easily decide they have a thinking problem 5 when they didn't; it was the drug they were 6 taking. 7 With chronic pain patients, some of 8 the behaviors that you think you'd find in an 9 addict, someone who has no good reason to take 10 the drug, begin to lose their diagnostic value. 11 So if someone's on a high dose of opioid at their 12 physician's prescription and they need it for 13 management of their pain, they're going to be 14 tolerant. They're going to demonstrate 15 withdrawal if you abruptly discontinue the drug. 16 These are givens. 17 In addition, patients, when they have 18 bad pain, when they have pain that is beginning 19 to dominate their lives, can become very anxious 20 about making sure they get good treatment for 21 their pain. Some writers and investigators and 22 pain specialists have come up with the concept of 23 something called pseudoaddiction. That's a term 24 of art, but I think the principle behind it is 25 real.</p>
<p style="text-align: right;">57</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 control over drug use. The individual takes drug 3 under circumstances where a reasonable individual 4 would choose not to. 5 Q. Now, physical dependence would be 6 distinct also from addiction, correct? 7 A. They're sometimes related. There are 8 different concepts. Any patient's physical 9 dependence to opioids begins in anyone who 10 receives them. The clock starts winding as you 11 give someone opioids, and some investigators 12 believe that they can demonstrate alterations in 13 tolerance and dependence within ten minutes of a 14 dose of opioids. Not great, but they can detect 15 them. 16 However, certain forms of dependence 17 are much more characteristic of individuals that 18 have addiction. Literally people on the street 19 will manifest florid opioid withdrawal while 20 waiting to make contact with the pusher. 21 So physical dependence, addiction, 22 separate concepts. But people with addiction can 23 and do often have physical dependence. 24 Q. Is it sometimes a symptom of 25 addiction if somebody's physically dependent?</p>	<p style="text-align: right;">60</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. You mentioned it's a term of art. Do 3 you know if it's ever been studied clinically, 4 the prevalence of pseudoaddiction in chronic pain 5 patients? 6 A. No, I don't know. 7 Q. Do you know how frequently it might 8 occur? 9 A. What I -- no. What I know about it 10 is that it's been reported. I've heard lectures 11 and presentations on it. I'm not a pain 12 specialist, and it's a bit -- it's a very 13 specific topic in pain management. 14 Q. We were talking about some things 15 that might be in the DSM would lose some of its 16 diagnostic value when you're talking about 17 chronic pain patients taking opioids. I think 18 you mentioned tolerance and withdrawal and 19 physical dependence being three. Are they 20 without any diagnostic value at all? 21 A. No. Let me try to answer that. 22 Q. Okay. 23 A. These findings can be of diagnostic 24 value, but they must be interpreted in the 25 context of what kind of pain the patient has,</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">61</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 what their diagnosis is, what kind of treatment 3 they've been on, what kind of concomitant 4 medications they're on. That's a reasoned 5 judgment. Does this individual have what you 6 would anticipate someone with that diagnosis on 7 that dose would demonstrate. 8 Q. Generally speaking, is OxyContin 9 addictive? 10 A. Yes. 11 Q. Does OxyContin cause euphoria? 12 A. Yes. 13 Q. Is that a common side effect? Well, 14 let me -- I've seen this, and I don't know if I'm 15 right on this, but my understanding is if 16 something's called a common side effect in the 17 parlance of the industry, that's usually about a 18 1 to 5 percent occurrence. 19 A. Common -- 20 MR. STRAUBER: Can I hear that 21 question again. 22 (The pending question was read.) 23 MR. STRAUBER: I object to the form 24 of that question. 25 A. You asked -- what I heard of your</p>	<p style="text-align: right;">64</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Do you have any contact or relation 3 to the RADARS program? 4 A. Not directly with RADARS. Because 5 that's housed in the risk management group, 6 because risk assessment hands off to risk 7 management, I have contact with the people who 8 work in the group. But I routinely do not attend 9 RADARS meetings. I do not write RADARS 10 documents, I'm not supervising RADARS. 11 Q. We addressed this a little about MS 12 Contin and OxyContin. From a pharmacologic 13 standpoint, is there much of a difference? 14 A. There are differences between MS 15 Contin and OxyContin pharmacologically and 16 pharmacokinetically. Whether those differences 17 mean anything is unclear. 18 For example, OxyContin is more 19 bioavailable and more predictively bioavailable 20 in the dosage forms that are available. But the 21 doses of MS Contin are bigger. So I've never 22 thought of the question what are the relative 23 abuse liability, pharmacokinetics, clinical 24 pharmacokinetic questions between the two drugs. 25 Q. Oxycodone I've seen is a 1.8 to a 1</p>
<p style="text-align: right;">62</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 question is are you right on that. I don't think 3 so. There's tremendous variability from label to 4 label, from review division to review division 5 from my experience on what words like "common" 6 "rare," "very common," "uncommon," "very rare" 7 mean. And there have been multiple efforts to 8 try to sort that out. But I'm not sure they're 9 helpful. 10 Q. So there's no table that says common 11 equals 1 to 5, very rare equals less than 1, rare 12 equals 1 percent, there's no breakdown like that, 13 correct? 14 A. There are publications of individuals 15 or organizations who say we think common is this 16 to this, we think rare is this to this. The 17 terms are not without meaning, but it's much 18 better to try to talk about for a given treatment 19 population what the actual rates are when you're 20 trying to talk about those rates. 21 Q. Do you know if euphorin occurs with 22 OxyContin between 1 to 5 percent of the time in 23 patients who were tested? 24 A. Not off the top of my head. I would 25 have to look at the package insert.</p>	<p style="text-align: right;">65</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 to 2 ratio of oxycodone potency to morphine. 3 A. Parenteral or oral? 4 Q. Oral. 5 A. Oxycodone is slightly more potent 6 than morphine. 7 Q. What role did you have with respect 8 to OxyContin's approval? 9 A. I was team leader in charge of 10 oversight of the primary medical officer reviews 11 for some of the studies or that were reviewed by 12 other individuals. I was primary reviewer on 13 some studies under the IND and in the NDA. I was 14 part of the drug abuse team working on the abuse 15 liability discussions. I was part of the team 16 that worked on the label. 17 Q. Part of the team that worked on the 18 labeling, was that team -- did y'all have 19 separate parts of the label that you worked on? 20 A. We worked on it both separately and 21 together. Different parts of the label 22 corresponded more precisely to somebody's 23 expertise than somebody else's. So the chemist 24 would spend most of the time on the how 25 prescribed and how supplied sections. The</p>
<p style="text-align: right;">63</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Do you know if OxyContin causes less 3 euphoria than immediate release opioids? 4 A. No. I don't know. 5 Q. Do you know any studies on that 6 topic, whether or not OxyContin causes less 7 euphoria than immediate release opioids? 8 MR. STRAUBER: Are you talking about 9 patients or generally? 10 Q. Let's start with any studies and then 11 we'll break it down to patients, if there are 12 any. 13 A. I know of no abuse liability or 14 clinical studies that were powered and designed 15 specifically to address that question. 16 Q. Do you know any studies that happen 17 to address that question, even if they weren't 18 designed to? 19 A. Not directly. 20 Q. Have you ever heard of the RADARS 21 program at Purdue? 22 A. Yes. 23 Q. Are you a participant in that 24 somehow? 25 A. No.</p>	<p style="text-align: right;">66</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 kineticist would spend most of the time on the 3 kinetics section and so on and so forth. Both 4 the drug abuse staff and the clinical reviewers 5 worked on the clinical sections. 6 Q. Who worked on the section for drug 7 abuse and dependence? 8 A. Several people. Myself, Mike Klein, 9 I can't remember if -- we had two very good 10 pharmacologists who were working on drug abuse, 11 but I can't remember whether they worked on it as 12 well. 13 Q. Was one of them Ms. Hayes? 14 A. Yes, Belinda. And of course all of 15 the clinical sections of the label were subject 16 to a multidisciplinary review and reviewed by the 17 division director. 18 Q. Dr. Bedford? 19 A. Yes. 20 Q. Do you recall meeting with Purdue in 21 November of 1992 to discuss the process for 22 approval of OxyContin? 23 A. I know we had a meeting. I don't 24 remember it. 25 (Wright Exhibit 2 for identification,</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">67</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 document bearing Bates production number 3 8002065027 through 8002065089.) 4 Q. I'm just going to ask you to look 5 over that quickly. We're only going to focus on 6 a couple of sections of it. I think specifically 7 we're going to look at Appendix 1 and Appendix 8 4. 9 MR. STRAUBER: I note that Exhibit 2 10 is stamped confidential, subject to protective 11 order. There is of course a protective order in 12 this case and we will at the appropriate time 13 designate exhibits and information in the course 14 of the deposition that are deemed confidential. 15 Q. Dr. Wright, could I direct you to -- 16 well, first, generally speaking, this is a letter 17 from James Conover at Purdue Pharma to John 18 Harter, correct? 19 A. Yes. 20 Q. Do you know who John Harter is? 21 A. John Harter was director of the pilot 22 drug evaluation staff. He was not a division 23 director but he had the functional authority of 24 one. 25 Q. Turning to page, I'm going to use the</p>	<p style="text-align: right;">70</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. That's the word that gives me 3 trouble. There are limits on the ability of an 4 individual and individual reviewer to make 5 statements that are binding on the government or 6 binding on the division or binding on the future 7 review of an application. 8 A reviewer will often make statements 9 about what he thinks is wise. But those comments 10 can be right, they can be wrong, they can be 11 revised in light of later findings, and they can 12 be overruled at the time of review of the NDA. 13 So they're recommendations, they're not 14 requirements for approval. 15 Q. Gotcha. I understand now. 16 Going back to page 033, looking at 17 number 4. 18 A. Number 4. 19 Q. It says "perform an IND ceding 20 study. This would be a labeling validation study 21 involving about a thousand patients. Such a 22 study need not be completed by initial NDA 23 submission but would need to be completed for the 24 NDA date." 25 This is the suggestion about a</p>
<p style="text-align: right;">68</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 last three numbers of the Bates stamp, which are 3 033, this appears to be a portion of some minutes 4 from a September 8th, 1992 meeting. 5 A. Uh-huh. 6 Q. Looking at number 4 -- well, 7 apparently this is some of your suggestions to 8 Purdue Pharma about what they should do for 9 purposes of approval as part of their NDA. 10 MR. STRAUBER: I object to the form 11 of that question. Go ahead. 12 A. No. Your question says some things 13 that are wrong. 14 Q. Okay, please. 15 A. There are limits on what an 16 individual reviewer or indeed an individual -- 17 even a division director can require of a 18 company. There were appropriate and applicable 19 guidance documents in place that were not -- and 20 I'm not an expert in the litigation involving 21 this, but the guidance documents say if a company 22 performs studies in accordance with these 23 guidance documents in good faith, the agency and 24 the review staff have to explain why that's not 25 enough.</p>	<p style="text-align: right;">71</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 labeling validation study. Do you recall why you 3 made it? 4 A. Yes. There was a considerable 5 controversy at the time within the Food and Drug 6 Administration as to how to handle what I'm going 7 to call IR/CR switches. The controversy might be 8 the wrong word, but there was robust scientific 9 debate. 10 The agency was not interested in 11 providing -- in imposing upon industry greater 12 regulatory burdens than were necessary by the 13 scientific perspective. But they were also very 14 committed to a role to protect the public -- a 15 role at the time -- sometimes I speak as if I'm 16 still an agency employee. It was very deeply 17 ingrained. The agency's role to protect the 18 public from unsafe medications. 19 Certain -- there were significant 20 differences between review divisions on how much 21 science and how much clinical study the sponsors 22 were asked to perform for an IR to CR switch of 23 the same drug where you were just changing the 24 dosage form from four hours to eight hours or six 25 hours to twelve hours.</p>
<p style="text-align: right;">69</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 And I have to review -- yes, this 3 is -- do you know whether this is an early IND 4 meeting, a pre-IND meeting, into Phase 1 5 meeting? 6 Q. Well, sir, I'm looking at page 031 7 where it actually talks -- looking at this, 8 apparently it's a meeting that was held on June 9 3, 1992, and these were the minutes that were 10 typed up in September of '92. Looking at page 11 032, I'm focusing on the last sentence of the 12 fourth paragraph where it says he had the 13 following. 14 A. Yes. 15 Q. "He," being it looks like you, 16 Dr. Wright, "had the following specific comments 17 on our clinical program to be incorporated into 18 our NDA submission." 19 A. Yes. 20 Q. That's what I meant by my question, 21 these were comments or recommendations that you 22 had -- 23 A. Recommendations. 24 Q. That's the problem? That's the 25 word --</p>	<p style="text-align: right;">72</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Some divisions treated that as if it 3 were an entirely new drug product. Some 4 divisions treated that, and the generics 5 divisions in particular, treated that as if it 6 was a pharmacokinetic problem. Just do a peak 7 case study, you're done, it's the same, go. And 8 that was troubling because having different 9 divisions with different approaches to the same 10 scientific problem is not good policy. It may 11 not even be good science. 12 So at the time when we were wrestling 13 with the issue of how much is enough, my 14 thinking, which is not binding on the agency but 15 represents one person's opinion, was that we 16 needed to see pharmaco -- good stable 17 pharmacokinetic performance, head to head 18 comparisons, and some indication from some 19 direction that the proposed labeling was adequate 20 for selling -- for safe use of the product. 21 That last was probably inappropriate 22 for the time, but I made it anyway. 23 Q. Why was it inappropriate for the 24 time? 25 A. It's only been relatively recently</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">73</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 that the agency has given serious consideration 3 to the approval requirements being prospective – 4 the approved labeling being prospectively 5 tested. Very few drugs had that and I'm not even 6 sure if I know if any drugs had that at that 7 period of time. 8 Since that time one of the issues 9 pertaining to risk management and risk assessment 10 is to say okay, let's test the labels prior to 11 approval, let's see if physicians comprehend 12 them, let's see if they are safe. So this was a 13 novel request at the time. 14 Q. And the goal was basically to see if 15 in following the instructions of the product 16 labeling, if – 17 A. The product was of acceptable risk. 18 Q. If the instructions were adequate and 19 clear and people could follow them and use them 20 appropriately, and then if they were not, amend 21 the label if need be? 22 A. Yes. That is correct. 23 Q. Looking at the bottom of the page, 24 under general it says here "Dr. Wright 25 recommended we consider developing a Naloxone</p>	<p style="text-align: right;">76</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Right. 3 A. But there is no current NDA approved 4 for such a product. 5 Q. I think we discussed, did you have 6 any work on that product at Purdue? 7 A. Yes. 8 Q. And do you remember when that work 9 began? Do you know when it began at Purdue? 10 A. No, I don't know exactly when that 11 work began at Purdue. I know that clinical 12 studies began somewhere in '97, '98. 13 Q. Can you turn to page ending 079. 14 This appendix says "marketing position and 15 proposed launch advertising claims as of 16 11/2/92." Do you remember asking them to give 17 you some idea of what their potential marketing 18 claims were going to be in their launch 19 advertising? 20 A. I don't remember asking them to do 21 that. Given the early nature of the meeting, I'm 22 not sure we would have much cared what their 23 proposed claims were. 24 Q. Looking at page 080, and looking at 25 the last claim listed, the bullet point that says</p>
<p style="text-align: right;">74</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 combination product." And it doesn't continue on 3 to the next page. 4 Do you remember making that 5 recommendation back in June of '92? 6 A. No, but I have no reason to 7 disbelieve the minutes. 8 Q. Do you remember in '93 or '94 ever 9 mentioning this again to Purdue about developing 10 a Naloxone combination product with oxycodone? 11 A. I very well – seeing this, I very 12 well could have. I don't remember. I remember 13 discussing -- other discussions about 14 agonist/antagonist products, but this was a topic 15 that was very common in '94-'95. 16 Q. The topic of combination products 17 with an antagonist? 18 A. Yes. The National Institutes on Drug 19 Abuse was during that period developing a 20 Buprenorphine/Naloxone product that has since 21 come on to the market. And they were very 22 enthusiastic about the potential for this, making 23 the product less abusable and hence more 24 appropriate to prescriptive use. 25 There had been some preliminary data</p>	<p style="text-align: right;">77</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 "less subject to potential abuse by addicts." 3 Do you recall asking Purdue about that potential 4 claim back in '92? 5 A. No, I don't remember that. It would 6 have -- I don't remember that. 7 Q. Do you remember seeing this proposed 8 claim back in '92? 9 A. It's in the minutes. I must assume 10 that it was in the submission. I don't remember 11 being particularly interested in this claim. 12 Q. Would that have been an out of the 13 ordinary claim in '92, that a controlled release 14 drug would be less subject to abuse? 15 A. No. There was a general perception 16 that the controlled release dosage forms were 17 less desirable. They were certainly not lighting 18 up on the surveillance systems that we had at the 19 time. I'm not sure -- the person -- the people 20 that would have been more concerned with this 21 would have been the chemists and the drug 22 scheduling people. And they would only have been 23 concerned with it had this been an attempt to 24 move the drug out of Schedule II into 25 Schedule III.</p>
<p style="text-align: right;">75</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 suggesting that this might work that was more 3 exciting than the data that had been done with 4 Talwin Nx which was using technology that wasn't 5 as good as today's technology and left 6 significant safety questions. 7 So any product of this nature I think 8 I would have been talking to them about, well, 9 can you put Naloxone in, can you put Naltrexone 10 in, can you make the caplet purple. 11 Q. Understood. 12 Do you recall if Purdue ever said we 13 looked at it and we can't do it, Dr. Wright? 14 A. What I remember, they certainly could 15 have, but I don't remember. 16 Q. Stating the obvious, though, Purdue 17 never did add a Naloxone product to oxycodone for 18 an OxyContin/Naloxone product, or has not yet, 19 correct? 20 A. Correct. 21 Q. Or a Naltrexone product? 22 A. Correct. There's a considerable 23 amount of research on how to make such a product 24 and trial formulations of this kind have been 25 made and are under test.</p>	<p style="text-align: right;">78</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. I believe in '97 you might have 3 worked with Purdue while you were still at FDA on 4 a proposed hydrocodone/Naltrexone product, 5 correct? 6 A. I met with them. 7 Q. And part of the goal was to move that 8 drug down to a Schedule IV, correct? 9 A. That is correct. Or keep it in 10 Schedule III. Even at that time there was 11 concerned about hydrocodone. 12 Q. And do you recall instructing them on 13 some of the -- well, making suggestion to them on 14 some of the studies they would have to do to 15 support changing in the scheduling? 16 A. As I remember that meeting, I have 17 not reviewed the minutes of that meeting for -- I 18 don't think I ever reviewed the minutes of that 19 meeting, but I might have, what I told them they 20 had to do and what the DEA representative told 21 them what the DEA felt that they had to do was to 22 robustly show for oral use, because that's the 23 pattern of abuse for hydrocodone products, that 24 there was reduced abuse potential, either by 25 reducing the risk of abuse, the consequences of</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">79</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 abuse or the probability of abuse. 3 And as I remember the meeting, there 4 was considerable discussion as to whether 5 Naloxone or Naltrexone or Nalmefene or some other 6 antagonist product would be appropriate. 7 Q. Do you recall ever discussing with 8 Purdue with regards to OxyContin anything like 9 that in order to make a claim about reduced abuse 10 potential? 11 A. I don't remember that. 12 Q. Let me show you the next exhibit. I 13 think it's kind of unfair to ask you if you 14 remember discussion back on October 6, 1992, so 15 why don't I just show you the letter. 16 A. Thank you. 17 (Wright Exhibit 3 for identification, 18 document bearing Bates production number 19 8113900032 through 8113900043.) 20 A. Okay, it looks like a letter that 21 Dr. Reder sent me, a series of Kenzie's and Don's 22 article on Tramadol. 23 Q. I apologize, but I hadn't given you 24 the September 29th letter that I think he's 25 talking about.</p>	<p style="text-align: right;">82</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 point adjective checklist items, adverse events, 3 and as I remember the application, Purdue did 4 wrestle with this issue, found that most of the 5 adjectives pertaining to addicts were completely 6 unresponsive in normal volunteers. PK volunteers 7 or patients. And I think they actually developed 8 a pretty good measurement of opioid effect, what 9 its relationship would be to abuse I don't know. 10 Q. That's my question. Do you have any 11 idea how this could be related to abuse? 12 A. In exactly the same way that -- for 13 mu-opioids, there is a -- I don't want to say 14 hypothesis. There's a perception that they're no 15 special, or certainly there was in '92 to '94, 16 there are no special attributes that measure 17 addiction -- measure abuse potential, that a 18 mu-opioid is a mu-opioid is a mu-opioid is a 19 mu-opioid is a mu-opioid. And that what you're 20 really measuring is the relative potency of the 21 opioids. How many milligrams of this one equals 22 how many milligrams of that one when you're doing 23 these studies. 24 That's pretty much where the thinking 25 was at that time. That thinking was different</p>
<p style="text-align: right;">80</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 (Wright Exhibit 4 for identification, 3 document bearing Bates production number 4 8113900019 through 8113900024.) 5 A. Yes, this looks like presentations 6 that were done by -- studies that were done by 7 Don. 8 Q. Looking at the letter on 9 September 28th, 1992 that Dr. Reder sent you, I 10 guess it starts on the second page after the 11 abstract. 12 A. Yes. 13 Q. He discusses an adjective checklist 14 which is then attached. Are these some of the 15 adjectives that Dr. Jasinski would use in his 16 abuse potential studies? 17 A. Yes. 18 Q. Do you remember why you and Dr. Reder 19 were discussing the use of such questionnaires 20 for OxyContin? 21 A. Yes. One of the issues for OxyContin 22 was what the role of pharmacodynamics would be, 23 the relationship between blood level and opioid 24 effect in analyzing the results. All of -- most 25 of the opioid effects -- most of the abuse</p>	<p style="text-align: right;">83</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 for a partial agonist and a mixed 3 agonist/antagonist and for other kinds of drugs 4 in the class. 5 I would say that these measures 6 probably measured how strong an opioid effect 7 somebody had, and that one could infer from that 8 that this was an abusable drug, but we already 9 knew that. 10 Q. Right. But let's point it towards 11 comparative purposes. Do you know what studies 12 that Purdue used a modified checklist amongst 13 these adjectives where they compared an immediate 14 release to a controlled release drug? 15 MR. STRAUBER: Objection to the form 16 of the question. 17 A. Since the goal was to assess these 18 opioid tools in patients, and mostly in 19 pharmacokinetic subjects, but I wanted to see if 20 it would work in patients, I certainly hoped they 21 did it and I seem to remember reviewing some of 22 those results, the strength of the conclusions I 23 draw from those I don't know today. 24 Q. Actually, why don't we look at one 25 and we could discuss it with some data in front</p>
<p style="text-align: right;">81</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 studies -- most of the -- I'm not making myself 3 clear. 4 There's a difference between high, 5 like and pay money for. And cloudy, confused, 6 hallucinating, sick, dizzy. And the difference 7 is those checklists could be interpreted by 8 patients. If I took a patient and asked him how 9 high are you, I have no idea what answer I would 10 get. And if I gave him a standard adjective 11 checklist for -- that's used by the Addiction 12 Research Center, some of the questions would be 13 utterly baffling. If I asked you what 14 soap-boxing was, you might guess but you wouldn't 15 have any real idea what that was. If I asked if 16 you were on the nod, I hope you would not know 17 what that meant. 18 So what I wanted Purdue to do at that 19 time -- now, want/suggest that it might be 20 helpful, not a regulatory requirement, was can 21 you develop an opioid effect, not abuse 22 liability, but opioid effect measurement that 23 could be used to try to link the pharmacokinetic 24 blood levels of the drug to the pharmacodynamic 25 effects of the drug. And take as a starting</p>	<p style="text-align: right;">84</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 of us. 3 A. Data always helps. 4 (Wright Exhibit 5 for identification, 5 document bearing Bates production number 6 8001000296 through 8001000313.) 7 Q. If it helps, I'm looking at table 7 8 on 308 where I think they have a summary of 9 pharmacokinetics. 10 A. Yes. I just got there, I'm just 11 looking at the -- this appears to be the draft -- 12 first draft of the report. I'm not sure this has 13 my review comments on it. 14 Q. I don't think it does. I think I 15 have the review handy, but if you want, I'll show 16 it to you -- 17 A. I don't remember instances where 18 there usually were significant differences 19 between my numbers upon review and Purdue's 20 numbers upon submission. And here's a table for 21 this study -- what's your question, sir? 22 Q. My question is looking at table 7, it 23 has apparently some of the data for the modified 24 drug effect questionnaire you had suggested 25 Purdue use back in '92, correct?</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">85</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Yes. 3 Q. This is a comparative to IR oxycodone 4 and CR oxycodone in pain patients, correct? 5 A. I believe so, yes. 6 Q. And it looks like there's, oh, ten or 7 so categories, right? 8 A. Yes, sir. 9 Q. And that's a combination of both the 10 questions and the observations or is this just 11 the questions? 12 A. I think those were just questions. I 13 think we asked -- the score as I remember it we 14 simply asked for a visual analog rating for each 15 of these issues. 16 Q. Looking at the scores, do you see a 17 clinically significant difference between the 18 numbers for CR oxycodone and IR oxycodone? 19 A. As dosed here, no. 20 Q. Okay. 21 A. But what that means is that on a 22 milligram per milligram basis, if I understand 23 the dosing in the study, 80 milligrams of 24 OxyContin was giving you the abuse effect of 40 25 milligrams of immediate release oxycodone.</p>	<p style="text-align: right;">88</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 conversation, but I do remember talking to him 3 about the use of that as a pain model. 4 Q. Looking at this it states that, I 5 guess the third sentence, "of greatest importance 6 is the fact that Dr. Wright said that for certain 7 individuals in the division and in the agency, 8 the use (i.e., long-term) in osteoarthritis is 9 unwarranted. The way the protocols are written, 10 it looks as if Purdue Frederick is attempting to 11 make labeling claims for pain for 12 osteoarthritis." 13 Did you mention that to Dr. Reder 14 back in '93? 15 A. I don't know if I said it that way or 16 not. This may be how Robert heard it. I know 17 what my concern was at the time. Will that help 18 you? 19 Q. Please. 20 A. There was a serious and emerging 21 problem in controlled release opioids during that 22 period of time at the Food and Drug 23 Administration. The ICH guidances and 24 discussions about the ICH guidances and 25 discussions about the FDA's guidances in pain</p>
<p style="text-align: right;">86</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. You're saying that the total daily 3 dose of the patients on the immediate release was 4 only 40? 5 A. No. Per single dose. 6 Q. Per single dose. 7 A. I think there may be a fundamental 8 confusion. 9 Q. Okay. 10 A. When someone abuses a drug they're 11 not taking it around-the-clock. They're just 12 taking it dose by dose. When someone takes the 13 80 milligrams here -- as I understand the study, 14 and I have not -- if I were to be definitive 15 about it I'd have to spend more time reviewing 16 the results, but as I understand it, this was an 17 equal daily dose study where the total daily dose 18 was the same, but in one case the IR was given 19 four times a day and the CR was given twice a 20 day. 21 So that would mean that the pill size 22 for the CR would have to be twice that of the 23 IR. So as dosed, I don't see any difference in 24 the abuse liability scores in the study. On a 25 pill for pill, you'd have to give two of the IR</p>	<p style="text-align: right;">89</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 continued, and it was becoming progressively 3 clearer that there was a desperate need for 4 placebo controlled studies in chronic pain. 5 It also had become progressively 6 clear that patients with chronic malignant pain, 7 cancer pain, and their physicians were not only 8 not interested in participating in placebo 9 controlled studies but considered participating 10 in such studies -- to enrolling patients in such 11 studies to be unethical and barbaric. And some 12 were quite gratuitous about it. 13 The European community was taking a 14 strong position periodically that placebo 15 controlled trials in chronic conditions like 16 chronic pain were difficult and perhaps 17 unethical. That posed a problem because there 18 were no validated comfortable models for chronic 19 nonmalignant pain. There were models for 20 arthritis, there were models for back pain, there 21 were models for neuropathic pain, but there were 22 no models for that because most of the drugs that 23 were tested in those models were indicated for 24 the disease rather than for a pain condition. 25 And there was concern that if you allowed a study</p>
<p style="text-align: right;">87</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 to be as many milligrams as the CR. 3 Q. Do you see where there's a note here 4 with an asterisk that says "adjusted to 5 80-milligram dose"? 6 A. Yes. 7 Q. Do you know what that means? 8 A. That means that the total -- if it 9 means what it should mean, the scores for both 10 groups were adjusted to a total 80 milligram 11 daily dose. 12 Q. I'm going to show you the next 13 exhibit. 14 (Wright Exhibit 6 for identification, 15 Notes of Discussion.) 16 Q. Do you recall discussing with 17 Dr. Reder in 1993 OxyContin being tested for use 18 in non-cancer pain patients? 19 A. I remember that we had discussions 20 about it. These notes appear to be notes of that 21 kind of discussion. 22 Q. Do you remember talking to him about 23 using OxyContin in clinical trials involving 24 osteoarthritis patients? 25 A. I do not remember the specific</p>	<p style="text-align: right;">90</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 in arthritis patients, that the company would 3 come forward and say this is a great drug for 4 arthritis. 5 Well, it's not. This is a drug for 6 pain. Drugs for arthritis are drugs for 7 arthritis. They treat pain, they treat swelling, 8 they improve mobility, they have other 9 antiinflammatory or disease modifying 10 characteristics that a simple pain medicine 11 wouldn't have. It might improve function but 12 your joints would be just as swollen as when you 13 didn't take it. 14 I felt -- I talked about the use of 15 arthritis and low back pain as pain models with 16 multiple companies seeking opioid indications, 17 and each time I did my level best to make it 18 clear that if you got through this, you weren't 19 going to get a label that said that you are a 20 great drug for arthritis. You might get a label 21 that said you were a great drug for pain and your 22 clinical trials section might say that patients 23 with arthritis not adequately managed by 24 arthritis drugs were treated. 25 So that's where that -- that was my</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">91</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 thinking at the time. 3 Q. So as to avoid a situation where the 4 drug would become synonymous with treating an 5 entire category of pain as opposed to an 6 intensity of pain. 7 A. Not precisely. The agency had very 8 specific guidances for drugs that were indicated 9 for the treatment of arthritis. And also for 10 drugs that were indicated for modifying the 11 course of arthritis. And if a drug wanted to 12 make an arthritis claim and within the indication 13 sections wanted to say is indicated for the 14 treatment of arthritis or the management of pain 15 due to arthritis, there were things that they had 16 to do that Purdue hadn't done or didn't look like 17 was going to do and probably wouldn't succeed if 18 they did do. 19 Q. Gotcha. 20 Looking at the next page, about 21 midway down, do you see where it says "exclusion 22 criteria"? 23 A. Yes. 24 Q. An exclusion criteria "Dr. Wright 25 suggested we have an exclusion such as 'patient</p>	<p style="text-align: right;">94</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. There's lots of risk associated with 3 this. Overdose, inappropriate use, increased 4 risk of mortality. Being a drug addict is a 5 dangerous business. 6 Q. I don't think it pays very well 7 either. 8 A. No. And as a result, the IRB – 9 remember, the agency can want something, the 10 sponsor can want something, and the institutional 11 ethics boards can say I don't think that that's a 12 proper thing. 13 MR. McNAMARA: Why don't we break for 14 lunch right now. 15 (Luncheon Recess: 12:15 p.m.) 16 17 18 19 20 21 22 23 24 25</p>
<p style="text-align: right;">92</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 excluded if he/she has satisfactory management of 3 pain with full dose NSAID'. Also at some point 4 we should consider the substance abuse 5 exclusion. We should try to learn what the risk 6 for a recovering abuser in pain is." 7 Do you remember saying something to 8 that effect to Dr. Reder? 9 A. I don't remember saying it. It 10 certainly was an issue that was very much on my 11 mind at the time. And it persists to this day. 12 If you never study patients with addiction, 13 patients with prior history of abuse, patients 14 with alcoholism, patients with whatever it is, 15 and you try to exclude them from your clinical 16 trials portfolio, you will not know what the risk 17 is for that population. 18 Now, at that time every single 19 sponsor in every single drug class other than 20 treatments for addiction excluded those 21 patients. Everyone. Every division, everywhere 22 throughout the agency. And I thought that was 23 wrong. I thought that you should figure out how 24 to address that either in a separate study or you 25 should address it in your enrollment criteria in</p>	<p style="text-align: right;">95</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A F T E R N O O N S E S S I O N 3 12:50 p.m. 4 5 CURTIS WRIGHT, IV, MD, MPH, 6 resumed, having been previously duly sworn, was 7 examined and testified further as follows: 8 CONTINUED EXAMINATION BY MR. McNAMARA: 9 Q. Good afternoon, Dr. Wright. Can I 10 show you our next exhibit. 11 (Wright Exhibit 7 for identification, 12 Project Team Contact Report, 10/22/92.) 13 A. This appears to be a memorandum of a 14 telephone call in '92 between Dr. Reder and 15 myself. 16 Q. Okay, it says here for reason for 17 call, "discussed drug abuse and dependence 18 section of opiate labeling." And under content 19 of discussion it says "Dr. Wright was open to 20 including short definition of dependence, abuse 21 and addition." I assume "addiction" was meant 22 there. 23 Do you remember Dr. Reder asking you 24 about Purdue including some definitions for those 25 terms in their drug abuse and dependence section</p>
<p style="text-align: right;">93</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 the study. 3 That could not be justified in terms 4 of the review criteria – in terms of the 5 guidances at the time. It has since become a 6 topic for risk assessment and management and has 7 been discussed as to how you might do that safely 8 today. 9 The downside is of course how would 10 you tell a physician in a clinical trial how he 11 could safely enroll a patient with a past history 12 of drug abuse into an opioid trial. Probably 13 can, but how do you do it. And do you need a 14 special protocol, and what's the risk and how do 15 you advise them of the risk and how do you manage 16 it. Those are still tough questions today. 17 Q. And it has to do with of course the 18 risk of, I guess we talked about it, you didn't 19 want to use the term "relapse," but "out of 20 remission" of the addiction? 21 A. Well, the terms are tough because if 22 somebody's got active addiction and they switch 23 to another drug, is that a relapse or is that 24 just switching to another drug? 25 Q. Right.</p>	<p style="text-align: right;">96</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 of their OxyContin label? 3 A. No. I truly don't remember this 4 phone call. I do remember that one of the issues 5 we talked about in terms of the labeling was the 6 extent to which expository material about 7 addiction should be placed in the label. 8 What we were going to put in the drug 9 abuse and dependence section was something that 10 was being looked at extensively all the time from 11 1990 through '95, '97. Mostly through -- '90 to 12 '94. And there was considerable discussion 13 about it. 14 Q. You don't recall them asking you, 15 saying that they wanted to include definitions in 16 the section beyond what might be in had a typical 17 opioid label, do you? 18 MR. STRAUBER: I object to the form 19 of that question. 20 A. All I remember about the discussion 21 was that Purdue had concerns about whether 22 physicians would be as comfortable with the drug 23 addiction terminology as I was. I thought that 24 was a fair concern. And a lot of discussion on 25 whether we needed to put definitions in the</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">97</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 package insert. 3 Q. You had done work on MS Contin you 4 said, right? 5 A. Yes. 6 Q. What about some of the other opioids 7 out there like Percocet. Any other drugs besides 8 MS Contin? 9 A. If you accept that I was part of the 10 review team, I had worked on most of the opioids 11 that came through the agency. Percocet was not 12 one. That actually went to a different division 13 because of its acetaminophen component. But the 14 strong opioids, the drug abuse staff, which 15 became a group and which its membership morphed 16 over the ten years, wrestled with most of the 17 opioid labels. 18 So I was involved with many of them, 19 heavily involved with some of them, had 20 supervisory or review responsibility for nearly 21 all of the strong opioids. 22 Q. So you're fairly familiar with the 23 labeling for those strong opioids? 24 A. I was - ten years ago I was. 25 Q. Let's say at this time, were you</p>	<p style="text-align: right;">100</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 research protocol number and an IND request had 3 been used as a thinly veiled mechanism for paying 4 high volume prescribers large sums of money for 5 not doing any work. 6 These later came to be called 7 variants of what was called a ceding study. And 8 in that particular case -- in some cases, and 9 again, I can't give the particulars because they 10 weren't in my division and I don't know, there 11 were actually charges filed against some firms 12 for inappropriate promotional behavior. 13 I think what I meant to Dr. Reder in 14 this telephone call was that I wanted -- if they 15 were going to do a study, I wanted to see a 16 legitimate study with a legitimate purpose and at 17 legitimate levels of reimbursement for the 18 investigators. 19 Q. And with an open label study, there 20 would be more potential for this kind of ceding 21 to occur. 22 A. Yes, sir. 23 Q. The investigators would know I'm only 24 using their product, getting paid money to use 25 their product -- understood, okay.</p>
<p style="text-align: right;">98</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 fairly familiar with the labels of the strong 3 opioids? 4 A. Yes, and they were not good. 5 Q. And did they have any definitions on 6 these terms? 7 A. They had very different definitions 8 on these terms. I was concerned about the opioid 9 labeling during this period because some of these 10 drugs had never been reviewed at all. They were 11 labels from before when the FDA had the statutory 12 authority to require testing, some of them were 13 from very early in that period and some of them 14 were from very late. 15 So there was a great deal of 16 heterogeneity between drug products that probably 17 weren't all that different. 18 (Wright Exhibit 8 for identification, 19 document bearing Bates production number 20 8113900235.) 21 A. This appears to be another contact 22 report. 23 Q. Between you and Dr. Reder? 24 A. Yes. 25 Q. It looks like the date is April 23 of</p>	<p style="text-align: right;">101</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 I'll show you the next exhibit. 3 (Wright Exhibit 9 for identification, 4 8113900315 through 8113900323.) 5 A. This appears to be a memorandum of a 6 team meeting that was held on August 30th, 1993. 7 Q. This would have been an internal team 8 meeting at Purdue, right? 9 A. Yes. 10 Q. You weren't a party to it. 11 A. No. 12 Q. If I can focus your attention to page 13 316, page ending 316 on the Bates ranges, do you 14 see 1.6, medication odor? 15 A. Yes. 16 Q. It states that "Robert Reder opened a 17 discussion on the recent clinical 18 (patient/pharmacist) study coordinates and 19 reports that OxyContin tablets packaged in 20 multiple dose containers emitted an odor." 21 Had you ever heard anything like that 22 about OxyContin? 23 A. No. 24 Q. Was it ever brought to your attention 25 that the acrylic or the eudragit used in making</p>
<p style="text-align: right;">99</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 1993. 3 A. Yes. 4 Q. It says "reason for call. Describe 5 the open protocol OC 92-1101, and ask if we can 6 begin to use it at one center." It says the name 7 Dr. Spalding. And it says under content of 8 discussion, "Dr. Wright said to keep the study 9 simple and be certain the study is not used as a 10 marketing ploy." And that's in quotes. 11 Do you recall the conversation with 12 Dr. Reder about this? 13 A. No, but I have no reason to doubt 14 that it occurred. 15 Q. Do you remember what the open 16 protocol OC 92-1101 was about? 17 A. No. 18 Q. Do you know what you meant about a 19 marketing ploy? 20 A. Absolutely. 21 Q. Could you explain. 22 A. Right about that time elsewhere in 23 the agency there had been some pretty seriously 24 scandalous behavior by a commercial sponsor, 25 fortunately I forget which one, in which a</p>	<p style="text-align: right;">102</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 the tablets may exhibit an odor? 3 A. But that is not unusual. The people 4 in the agency who would hop right on that would 5 be the chemists. 6 Q. That could be a compromising factor 7 to blind studies, correct, if a medication has a 8 certain odor? 9 A. It depends. It depends on how the 10 placebo was made. If the same eudragit was made 11 for the placebo and for the active, you couldn't 12 tell the difference. But if you could see a 13 difference between batches and that difference 14 was meaningful, when people inspect the 15 difference between active and placebo, they tend 16 to be really looking. 17 And it's not clear how often that 18 actual patients in the trial can look that close 19 and tell that difference because they only get 20 one treatment. They don't get both. 21 Q. I notice here it says looking at the 22 sentence again, "Robert Reder opened the 23 discussion in the recent clinical 24 (patient/pharmacists) study coordinates." So 25 apparently few patients had noticed.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">103</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Yes. Something stunk. 3 Q. Do you see any reference in that 4 paragraph to the placebos having an odor? 5 A. No. If the study was ongoing, no one 6 would know which pill was which. The blind would 7 still be running, so you wouldn't know. 8 Now, I don't know which protocol he 9 was talking about. It's a potential problem, but 10 you're absolutely right, it did. 11 Q. I guess the problem comes because 12 there could be bias by the investigators if they 13 were to learn that the study drug had a 14 particular odor as opposed to the drug that you 15 were comparing it against. 16 A. If they knew which was which. And if 17 they could identify active from placebo and they 18 were of a mind, they could influence the 19 results. And that's why trying to get the two 20 dosage forms so you can't readily tell them apart 21 is considered an important part of the study. 22 Q. Looking on page ending in 319, 23 looking under -- there's a section marked 24 potential studies at the bottom. If I could 25 direct your attention there, it states that Mike</p>	<p style="text-align: right;">106</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. That's not quite right. 3 Q. Then please -- 4 A. That's not quite right. Everybody 5 who's got pain has to have some diagnosis. And 6 physicians want to know what kind of diagnosis 7 the patient has in trying to decide whether these 8 study results or this drug or whatever it is 9 you're offering is good for their patients 10 because their patient has pain from 11 osteoarthritis, arthritis, whatever it might be. 12 What becomes -- where this gets 13 tricky is if the painful condition has dimensions 14 that go beyond pain but go into disability, go 15 into inflammation, go into a clinical course for 16 the condition that has -- that are not addressed 17 by the drug under question, this is best 18 developed for arthritis in that a drug for 19 arthritis should address the inflammation and 20 should address functionality, not just pain 21 relief. 22 So I'm not -- if you're asking my 23 opinion now of this, it is perfectly appropriate 24 to want to know how the drug works for 25 appropriately selected patients with certain</p>
<p style="text-align: right;">104</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Innaurato -- did you have contact with Mike 3 Innaurato? 4 A. I think I interacted with him over MS 5 Contin. 6 Q. But you don't recall interacting with 7 him over OxyContin? 8 MR. STRAUBER: You're going back to 9 the time when Dr. Wright was at the FDA? 10 Q. When you were at the FDA. 11 A. I don't know. 12 Q. "Mike Innaurato said that an 13 OxyContin versus Percocet comparative study would 14 be useful for marketing purposes. Though such a 15 study has previously been conducted and published 16 in abstract form, it was a single dose study 17 using non-GNP released material. Mike Innaurato 18 stated that a multiple dose study would be best 19 to support claims relating to relief of post 20 surgical pain, low back pain and herpetic 21 neuralgia pain. Mike Innaurato stated marketing 22 would like to position differently than MS 23 Contin." 24 I assume you know the study he's 25 referring to, OC 88-1105, a single dose study.</p>	<p style="text-align: right;">107</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 kinds of pain. But it is drifting in the wrong 3 direction when you say everybody with arthritis 4 needs narcotics. 5 Q. And the same would be if everybody 6 post op pain needed a controlled release opioid 7 around-the-clock for an extended period of time. 8 A. Certainly there are many surgeries 9 that do not require that kind of analgesic. 10 Q. And I guess the same would be true of 11 low back pain, that there are kinds that could 12 require such an opioid and there's others that 13 would not. 14 A. I'm not sure whether it's kinds, but 15 there's certainly intensities. The general 16 suggestions among the pain management community 17 are to use something like the WHO ladder, if you 18 were, then you would pick patients at the 19 appropriate step of the ladder and that would be 20 the population. 21 Q. Reading on -- well, the last sentence 22 says, "Mike Innaurato states marketing would like 23 to position differently than MS Contin." 24 Were you ever told by anyone at 25 Purdue that they wanted to position OxyContin</p>
<p style="text-align: right;">105</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. I'm sure I did ten years ago. But 3 can you refresh my recollection on which study 4 88-105 study is. 5 Q. A single dose study comparing 6 OxyContin, Percocet, placebo and I believe single 7 entity immediate release oxycodone for 180 post 8 op patients. Albert Sunshine was the lead 9 investigator. 10 A. Right, Sunshine, okay. 11 Q. Mr. Innaurato suggests here that they 12 do further comparative studies to best support 13 claims relating to relief of post surgical pain, 14 low pack pain and herpetic neuralgia pain. That 15 seems to be studies focused on specific pain 16 syndromes as opposed to the intensity of pain, 17 correct? 18 A. Sure. 19 Q. This goes back a little to what we 20 discussed earlier about the concerns with 21 osteoarthritis not being a drug for the treatment 22 of a particular kind of pain but for an intensity 23 of pain, that being -- 24 MR. STRAUBER: I object to the form 25 of the question.</p>	<p style="text-align: right;">108</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 differently than MS Contin? 3 MR. STRAUBER: You're back again in 4 the time that Dr. Wright was with the FDA? 5 Q. The documents that I'm showing you 6 with regards to the early '90s when you were 7 still at the FDA, I think you can safely presume 8 I'm talking about when you were at FDA. 9 A. I don't know if it was specifically 10 brought to my attention that Purdue's marketing 11 department wanted to position the drug 12 differently from MS Contin. And I'm not sure 13 that that would have been an issue prior to 14 approval. 15 Q. The next paragraph states that 16 "Robert Reder stated that the FDA suggested that 17 we do not issue claims supporting the general use 18 of a Schedule II opioid in patients with 19 nonmalignant pain." 20 Do you remember giving Robert Reder a 21 suggestion of that type? 22 A. Actually, we discussed that in one of 23 the last exhibits. What I think -- the issue 24 that was on my mind was I don't want you to say 25 that every patient with arthritis or</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">109</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 osteoarthritis needs a Schedule II opioid. 3 Q. This here says with nonmalignant 4 pain. Do you recall ever talking to him in terms 5 of low back pain or some of the other -- 6 A. Oh, yes. Those were the study 7 designs that we were talking about. 8 Q. Right. And do you recall giving him 9 a similar message as you talked about with 10 osteoarthritis with regards to low back pain? 11 A. My concern would have been 12 generalized to any condition, any nonmalignant 13 position, low back pain, osteoarthritis, 14 headache, neuralgia and neuropathic pain. 15 Q. "Robert Reder indicated that 16 decisions to make additional claims could be 17 developed after the product is marketed. Jim 18 Conover agreed with Robert Reder but added that 19 any study conducted in patients with nonmalignant 20 pain could be included in the clinical study 21 section of the package insert. Robert Reder 22 added that any proposed marketing claims in their 23 supporting studies should be first reviewed with 24 our legal and regulatory departments. Perhaps 25 the marketing concepts could be reviewed now."</p>	<p style="text-align: right;">112</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 question or is that just an observation? 3 Q. I was asking a question. 4 MR. STRAUBER: You're asking whether 5 it was changed? 6 A. I don't know if it was changed or 7 not. Do you wish me to examine it line by line 8 and determine if it's the same? I truly don't 9 know what changes -- if changes were made. 10 MR. STRAUBER: You're saying yes, you 11 want him to do it? 12 A. It looks certainly very similar, if 13 not identical. 14 Q. Now, looking at the sentence right 15 underneath drug abuse and dependence -- first of 16 all, the drug abuse and dependence section is 17 located in the product labeling I guess under 18 the -- well, it comes -- would you say it's under 19 the precautions section or is it just a separate 20 section on itself? 21 A. It is both considered one of the 22 precautions and it's also a separate section on 23 its own. I remember that during this period we 24 felt that it was important to put the drug abuse 25 and dependence section next to overdose for</p>
<p style="text-align: right;">110</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 What's the significance of putting 3 clinical study information in the clinical study 4 section of a product label? 5 A. When the clinical study section -- 6 not all studies done by a sponsor make it into 7 the clinical study section of the product 8 labeling. Studies have to reach a certain 9 threshold of appropriateness and adequacy to get 10 into that section. 11 In general, it's easier to defend 12 promotional information or materials relevant to 13 that -- to such claims if the label has that 14 language in it. 15 I'm a little entertained by this 16 because having the regulatory and clinical people 17 of the company arguing over what the FDA is or 18 isn't going to allow is interesting but I'm not 19 sure carries much meaning. 20 Q. My next exhibit is going to be the 21 December 5th, 1995 label. However, I think you 22 already have that. And I think you might have a 23 better copy than I do. 24 A. I'm not sure. I have the 25 January 23rd, 1996 version.</p>	<p style="text-align: right;">113</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 obvious reasons. And also to begin to try to 3 encourage sponsors to wrestle with use and 4 addiction because we were seeing off-label use of 5 a number of drugs that were not approved for use 6 in the treatment of addiction in the treatment of 7 addiction. 8 Q. So looking at the drug abuse and 9 dependence section, it says underneath that 10 "OxyContin is a mu-agonist opioid with an abuse 11 liability similar to morphine and it's a 12 Schedule II controlled substance." 13 From that sentence, "abuse liability 14 similar to morphine," is that referring to the 15 legal abuse liability or the medical abuse 16 liability? 17 MR. STRAUBER: I object to the form 18 of the question. Or both? Is that part of your 19 question? 20 Q. Yes, or both. 21 A. I don't think it's particularly clear 22 from the context what it's referring to, whether 23 it's referring to those two groups. The degree 24 of sophistication in thinking about abuse 25 liability relative to patients and abuse</p>
<p style="text-align: right;">111</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. That's fine I think. 3 OxyContin was approved in December of 4 '95. Do you recall that? 5 A. I don't remember the date, but '95 6 sounds like the right year. 7 Q. So I won't -- actually, if we could 8 mark yours because mine is -- well, we'll get on 9 the same page. Let me give you I believe the 10 March 2000 label. 11 A. I'm not sure by March of 2000 it 12 hadn't been changed somewhat. 13 Q. I'll ask you about that. 14 (Wright Exhibit 10 for 15 identification, document bearing Bates production 16 number 7501020320 through 7501020327.) 17 Q. The section I'm going to focus on is 18 the drug abuse and dependence section on page 19 ending 325 of the exhibit. Bates ending 325. 20 A. Yes, sir. 21 Q. I think if you look at the January 22 1996 label, I don't think that subsection has 23 been changed. Or changed between March 2000 and 24 January 1996. 25 MR. STRAUBER: Are you asking him a</p>	<p style="text-align: right;">114</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 liability relative to addicts or abusers was 3 pretty primitive back then. 4 Q. Looking at the next sentence, it 5 says, "Oxycodone products are common targets for 6 both drug abusers and drug addicts," correct? 7 A. Affirmative. 8 Q. And then the last sentence says, 9 "Delayed absorption as provided by OxyContin 10 tablets is believed to reduce the abuse liability 11 of a drug." 12 A. That is correct. 13 Q. Now, do you recall if that sentence, 14 "delayed absorption as provided by OxyContin 15 tablets is believed to reduce the abuse liability 16 of a drug," was in the MS Contin label? 17 A. I don't recall. 18 Q. Do you know if that was in any other 19 drug label involving a controlled release 20 opioid? 21 A. I don't know. 22 Q. Do you recall ever seeing that 23 language in any controlled release opioid label 24 besides OxyContin? 25 A. No. But I don't think it would be.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">115</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Why? 3 A. Although the agency personnel are 4 called upon to provide a common standard, there 5 is learning product by product and label by 6 label. By the time OxyContin came along there 7 were a number of things happening in the pain 8 treatment area that were bothersome. And this 9 was -- in this particular case -- I do not 10 remember extensive discussion about this line, 11 which, frankly, as I read it, is a relatively 12 weak statement. 13 But it's probably as much as Purdue 14 could have said in trying to accede to my 15 request, which I do remember making, that they 16 talk somehow about the abuse liability of their 17 product instead of just oxycodone. 18 Q. You had made a request that they talk 19 more about the abuse liability of the controlled 20 release form as opposed to just the drug itself 21 oxycodone? 22 A. Right. We had by that time some 23 significant differences -- how far do you want me 24 to go in explaining this, because it's complex? 25 Q. Please, go ahead.</p>	<p style="text-align: right;">118</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 liability? 3 A. How far back do you want me to go? 4 Q. Well, how about 1995, about the time 5 of OxyContin approval. 6 A. There was a fair amount of 7 accumulated evidence by then that the lower and 8 the slower, the less abuse liability that one 9 could anticipate. This had been an issue for a 10 long time because drugs in some dosage forms had 11 relatively low abuse liability and in other 12 dosage forms had very severe abuse liability. 13 The National Institutes of Drug Abuse 14 in this period was taking a very strong position 15 that the difference between cocaine hydrochloride 16 and smoked crack cocaine had a basis in 17 pharmacokinetics and pharmacodynamics and that 18 they could measure those differences. They did a 19 number of studies looking at that issue, and 20 certainly for cocaine. They were very 21 comfortable that the arterial cocaine levels and 22 the magnitude and speed of rise could be very 23 readily demonstrated to relate to the magnitude 24 of the effect and the abuse liability. 25 The barbiturates research done around</p>
<p style="text-align: right;">116</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. There was increasing evidence that 3 dosage form mattered in terms of abuse 4 liability. This was most significant with people 5 that wanted to bring forward novel dosage forms 6 that substantially enhanced abuse liability of a 7 product. 8 We'd just been through right about 9 this time, and I can't remember the relative 10 timing because it's a long time ago, we'd just 11 been through a number of discussions with respect 12 to people who wanted to make inhaled morphine, 13 morphine nasal spray, various and sundry kinds of 14 tobacco alternative products. And I think the 15 agency was getting ready for a change because 16 four or five years after this there was a clear 17 bright line distinction that we're going to look 18 at the abuse vulnerability for tampering and use 19 as directed for dosage forms. 20 At the time the DEA took a very 21 strong position that they did not care about 22 dosage forms. They regulated drug substances, 23 and drug product were going to be scheduled 24 according to the drug substance, not the drug 25 product.</p>	<p style="text-align: right;">119</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 that time showed that the rate of rise in the 3 central nervous system correlated well with 4 liking. The nicotine research that had been done 5 strongly suggested that that was the case for 6 nicotine. I'm explaining some of the differences 7 between the nicotine replacement products and 8 cigarettes. 9 And there been actually some work 10 done with opioids, both what I'll call survey or 11 soft science looking at the street price of 12 various opioid dosage forms and some harder 13 science looking at actual abuse liability when 14 they gave the drug slower and lower than when 15 they gave the drug more rapidly. 16 So I think we were pretty confident 17 by 1995 that as a general principle this was 18 correct. 19 Q. What do you mean by lower when you 20 say lower and slower? 21 A. That if you produced peak blood 22 levels that were higher, you'd get increased 23 abuse liability. And if you got the same blood 24 levels and faster, you could produce increased 25 abuse liability. And conversely, if you slowed</p>
<p style="text-align: right;">117</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 The emerging thinking in the drug 3 abuse staff was that it was going to be important 4 to try to provide some guidance to people who 5 were going to have to prescribe the product. 6 Most of the controlled release 7 products had been approved before that, before 8 that thinking had gotten to that stage. I don't 9 think for MS Contin there was much thinking about 10 that at all, but I don't know. I was not at the 11 agency for the original approval of MS Contin. 12 So my comment no but there wouldn't 13 have been was because right around this time the 14 concept of the dosage form mattered and we ought 15 to say something about that was beginning to 16 emerge. 17 Q. You mentioned dosage form mattered 18 and I think you gave a couple of examples of how 19 an inhaled product or other kind of products 20 could, as you said, increase the abuse 21 liability. Correct? 22 A. That's correct, sir. 23 Q. What studies had been done up to then 24 that the delayed absorption that a controlled 25 release product may have reduce the abuse</p>	<p style="text-align: right;">120</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 it or you dropped the blood level, either one or 3 both would reduce the subjective effects of the 4 drug as they related to liking and drug effect in 5 drug-seeking behavior. 6 Q. You mentioned there had been 7 potential studies with regards to opioids by this 8 time. 9 A. Yes. 10 Q. Do you remember what those were? 11 A. I'd have to go look in my files. 12 Most of the work that had been done had been done 13 in the other direction. It had been done in 14 terms of speeding up opioids. Smoked versus 15 injected. It had been done looking at which 16 dosage forms commanded which prices and what 17 liking you saw. 18 Off the top of my head I can't say 19 when, which opioid rate studies had been done by 20 that time. Since that time there's been some. 21 Q. Have there been any involving 22 OxyContin that you know of? 23 A. I don't think I can answer that right 24 now because I don't remember all of the opioids 25 that were used in those studies. Most of them</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">121</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 prototypically were done with morphine. 3 Q. Would this be comparing -- you 4 mentioned the one you had some knowledge of 5 involving Buprenorphine, and actually, you didn't 6 identify what the immediate release opioid was. 7 A. Buprenorphine. 8 Q. Just a controlled release versus the 9 immediate release? 10 A. That was the first time I knew of 11 that someone had taken the pharmaceutical dosage 12 form and knocked it head to head against the 13 immediate release dosage form. 14 Q. When was that done? 15 A. The study was started in '98, '99 and 16 ran until about 2001, 2002. I can't remember. 17 It turned out to be an amazingly difficult study 18 to do for a variety of technical reasons. 19 Q. Were most of them related to the 20 study medication which has this mixed agonist -- 21 A. No, most of them were related to -- 22 when you do these kinds of studies, especially 23 the more treatment arms you add, you're asking 24 someone to check into a residential treatment 25 facility for a week or two weeks or three weeks</p>	<p style="text-align: right;">124</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 dependence." 3 I think we talked about that earlier 4 in terms of tolerance and physical dependence in 5 pain patients and whether they have some 6 diagnostic value with regards to addiction. 7 A. I think one could probably change 8 this if one wished. 9 Q. To? 10 A. Are not necessarily. 11 Q. Here also the "not" is italicized, 12 correct? 13 A. Yes. 14 Q. If you look at the '96 one in front 15 of you, was it italicized or underlined? Or was 16 there any special font for the "not"? 17 A. It was underlined. Now, that is a 18 concept that was very common in the treatment 19 guidelines that were being written right around 20 that period. When you start looking at the AHCP 21 guidelines and the American Pain Society 22 guidelines, they're pretty definitive about the 23 fact they don't want physical dependence or 24 tolerance to be perceived as dependence in 25 chronic pain patients. And the reason is that if</p>
<p style="text-align: right;">122</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 or a month. And there are relatively few people, 3 even drug addicts, whose idea of how to spend 4 their summer is to check into a clinical 5 pharmacology research unit. So recruitment for 6 these studies proved to be very challenging and 7 very long. 8 Q. So you said that was the first one 9 that you know of where there was actually a 10 head-to-head comparison between the controlled 11 release form of an opioid and an immediate 12 release? 13 A. The first one where somebody tried to 14 do everything right. Identical delivery, the 15 actual clinical dosage form and approved 16 parenteral dosage form of exactly the right 17 amount. Both were given in multiples of the 18 clinical dose, which is relatively uncommon. 19 Drug abusers usually take multiple doses, not the 20 approved dose. All of those things were done and 21 Dr. Bigelow I think was proud of the results. 22 Q. Let's look on the next sentence back 23 in the product label, drug addiction. Drug 24 dependence, psychological dependence. Those 25 terms are used fairly much interchangeably,</p>	<p style="text-align: right;">125</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 you did that, you'd be more likely to hurt a pain 3 patient. 4 Q. If I can, I'm going to show you the 5 next exhibit, and you can take a look at it, 6 although we're only going to talk about one 7 specific section of it. 8 (Wright Exhibit 11 for 9 identification, document bearing Bates production 10 number 8002017468 through 8002017497.) 11 A. This appears to be some version of 12 the annotated package insert. 13 Q. If you look at the first page where 14 it says "application summary, annotated package 15 insert including patient instructions," do you 16 know if this would be the version -- well, this 17 would be the version that gets submitted as part 18 of the new drug application, correct? 19 A. All of them would be versions. I 20 mean, there were many versions that were 21 submitted as part of the new drug application. 22 They'd all look about like this. 23 Q. Do you remember when the new drug 24 application was submitted? 25 A. No.</p>
<p style="text-align: right;">123</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 right? Addiction and psychological dependence? 3 A. No. They're not used interchangeably 4 by all parties. What I believe was intended here 5 was to try to round up those concepts to reflect 6 the fact that when you're talking about the 7 patients who have that problem, it doesn't matter 8 whether you call them drug addicts or people with 9 drug dependence or people with psychological drug 10 dependence. You're dealing with the same group 11 of people. 12 Q. Gotcha. "For these people, drug 13 dependence, psychological dependence, is 14 characterized by a preoccupation with the 15 procurement, hoarding and abuse of drugs for 16 nonmedicinal purposes. Drug dependence is 17 treatable, utilizing a multidisciplinary 18 approach, but elapse is common." You'd agree 19 with that, right? 20 A. That's right. 21 Q. "Introgenic addiction to opioids 22 legitimately used in the management of pain is 23 very rare. Drug-seeking behavior is very common 24 in addicts. Tolerance and physical dependence in 25 pain patients are not signs of psychological</p>	<p style="text-align: right;">126</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Does December 1994 sound about 3 right? 4 A. When it was it approved? 5 Q. December of 1995. Does that sound 6 right? 7 A. Then December of 1994 sounds about 8 right. 9 Q. If you'll look at the last page where 10 it has the date on this label, do you see where 11 it says December 16th, 1994? 12 A. Yes. 13 Q. So this would be about around the 14 time -- 15 A. This would be about the time of 16 submission. 17 Q. Of the submission. 18 A. But just of submission. 19 Q. Let's if we could look at -- and the 20 purpose of having an annotated version I guess 21 is, on the left is the information about the 22 package insert as it is and the right would be, 23 roughly stated, the reference for that section? 24 A. Where you find it, what justification 25 you would find for it, where you would look in</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">127</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 the NDA to discuss it. 3 Q. Can you turn to the page Bates ending 4 487. This is the section that says "drug abuse 5 and psychological dependence." 6 A. Uh-huh. 7 Q. And underneath psychological 8 dependence, addiction/drug abuse it says 9 "psychological dependence (addiction) to opioids 10 is characterized by an overwhelming preoccupation 11 with the procurement, hoarding and abuse of these 12 drugs for nonmedicinal purposes." To the right 13 it says MS Contin tablets package insert. 14 A. Yes. 15 Q. So I guess the reference to support 16 would be the already approved MS Contin package 17 insert for that description. And that's sort of, 18 I think you had a similar description of 19 addiction earlier in terms of the main 20 manifestation or symptomatic basis for that 21 diagnosis, right? 22 A. All of these definitions end up 23 dancing around the same concept and trying to say 24 them in different ways. 25 Q. Next sentence says, "psychological</p>	<p style="text-align: right;">130</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 individuals' opinions or contributions. 3 Q. And those guidelines indicated 4 iatrogenic addiction is very rare? 5 A. Yes. 6 Q. Do you know what those guidelines are 7 based on? 8 A. A consensus development process that 9 went — that is described in the document. 10 Frankly, at the time I must confess a certain 11 civil service behavior in that I sought out what 12 the best available government advice was, read it 13 and said this makes sense to me. 14 (Wright Exhibit 12 for 15 identification, Porter and Jick Letter to the 16 Editor.) 17 A. This is the Porter and Jick letter to 18 the editor. 19 Q. And this is I guess dated 1980. It's 20 kind of hard to see on this particular copy. But 21 have you ever seen this before? 22 A. Yes. 23 Q. Have you ever talked to Drs. Porter 24 or Jick about this? 25 A. No.</p>
<p style="text-align: right;">128</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 dependence is best treated utilizing a 3 multidisciplinary approach but recidivism is 4 common." I think we already talked about that. 5 The sentence after that says, 6 "iatrogenic addiction is very rare and tolerance 7 as well as physical dependence are not signs of 8 psychological dependence; nor is psychological 9 dependence necessarily accompanied by tolerance 10 and physical dependence." 11 Looking to the right of that 12 sentence, it seems to cite Porter 1980 and 13 Fishbain 1992. Are you familiar with those two 14 references? 15 A. I've looked at them. I can't quote 16 them from memory. Porter is Porter and Jick I 17 believe. And Fishbain was a survey on — 18 Fishbain was an article on transference in 19 prescription of opioids. 20 Q. Do you remember if the Fishbain — it 21 was a review article basically — 22 A. If it's the article I think it is, it 23 was an expository article talking about 24 countertransference issues and issues pertaining 25 to the use of opioids that cited in the course of</p>	<p style="text-align: right;">131</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Have you ever talked to Drs. Porter 3 and Jick at all? 4 A. No. 5 Q. I'm going to read through it rather 6 briefly since it's rather short. To the editor. 7 "Recently, we examined our current files to 8 determine the incidence of narcotic addiction in 9 39,946 hospitalized medical patients who were 10 monitored consecutively. Although there were 11 11,882 patients who received at least one 12 narcotic preparation, there were only four cases 13 of reasonably well-documented addiction in 14 patients who had no history of addiction. The 15 addiction was considered major in only one 16 instance. The drugs implicated were merperidine 17 in two patients, Percodan in one and 18 hydromorphone in one. We conclude that despite 19 widespread use of narcotic drugs in hospitals, 20 the development of addiction is rare in medical 21 patients with no history of addiction." 22 Looking over the text, do you see 23 where it says "the addiction was considered major 24 in only one instance"? 25 A. Yes.</p>
<p style="text-align: right;">129</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 the argument a number of surveys and studies and 3 articles that had been dealt with in that — that 4 dealt with relevant issues as they came up. 5 Q. Now, if you received something like 6 this from a drug company, would you look at those 7 references and make sure that they would actually 8 support what the language in the label that was 9 being proposed? 10 A. Yes and no. If a statement was 11 controversial, was not consonant with what we 12 already believed, then those references would be 13 examined fairly carefully. If the statement came 14 in and it was the same kind of statement that you 15 saw in multiple applications and you were very 16 familiar with the literature, then you wouldn't 17 go chasing down those references. 18 Q. Would you say you're very familiar 19 with the Porter and Jick 1980 letter to the 20 editor which is referenced here? 21 A. No, I would not say that I'm very 22 familiar anymore with Porter and Jick. What I 23 was familiar with at that time were the 24 discussions in and around the HCRP guidelines, 25 which from my perspective trumped any</p>	<p style="text-align: right;">132</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Do you know what the distinction 3 would be between a major addiction and a minor 4 addiction? 5 A. I would have to seek more closely to 6 determine what the instance — what that 7 difference would be. 8 Q. In your treatment of addicted 9 patients, would you refer to some addicts as 10 major addicts and minor addicts? 11 A. It depends on what they mean by 12 addiction. And that's the problem with articles 13 from this period. If what addiction means was 14 that there was an episode or two of drug-seeking, 15 or somebody had evidence of tolerance, or 16 somebody thought there might be an issue of 17 addiction, that might very well be classified as 18 minor addiction. 19 They did the Tramadol study. They 20 ended up having to classify whether they thought 21 this was a clear cut evidence of a major drug 22 dependence syndrome or whether the evidentiary 23 weight was lower than that. 24 The Boston Collaborative Drug Study 25 was one of the icons — drug program was one of</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">133</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 the icons of the early days of 3 pharmacoeidemiology. In fact, the current risk 4 management/risk assessment guidelines asks for 5 companies to try to make use of such programs or 6 to establish such programs when they're dealing 7 with uncommon risks of their drugs. Risks where 8 clinical trials are not an appropriate mechanism 9 to find them. 10 I don't think that Porter and Jick by 11 itself could be considered dispositive proof that 12 addiction — that iatrogenic addiction is rare. 13 I am more convinced when I look at every 14 generation, every decade of physicians looking at 15 this issue which has been an issue that's been of 16 concern to American medicine for over a hundred 17 years. Each time physicians look, what they find 18 is that properly managed patients have relatively 19 few problems with dependence. But when they look 20 at catchment populations that end up not doing 21 well and ending up in high end tertiary pain 22 management center or ending up in trouble, that 23 they find that those patients have a relatively 24 high instance of drug dependence. And that's 25 what you would expect. The prognosis rate of</p>	<p style="text-align: right;">136</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 multidisciplinary pain management clinics where 3 there's a higher rate of abuse of their 4 medications reported, correct? 5 MR. STRAUBER: No, that's not what he 6 said. 7 MR. McNAMARA: Well, he could agree 8 with me or not. 9 Q. Are you familiar with such studies? 10 A. Yes. I'm aware of multiple reports 11 of such studies and they report frequencies that 12 are much higher than Porter and Jick. 13 Q. And these would be studies done by 14 such folks as Dr. Charles Chabal? 15 A. Yes. 16 Q. And Dr. Lawrence Robins? 17 A. Yes. 18 Q. And these would be patients who are 19 chronic pain patients presumably going to pain 20 management clinics, correct? 21 A. Prevalent cases in pain management 22 clinics. 23 Q. The personnel at the Boston -- well, 24 the patients at the Boston Collaborative Drug 25 Surveillance Program would have been, according</p>
<p style="text-align: right;">134</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 schizophrenia is low but the rate of 3 schizophrenics in mental hospitals is high. 4 Q. Are you talking about pain clinics as 5 being akin to places where you'd find most 6 addicts? 7 A. No. What I'm saying is that -- to 8 try to -- this is an issue that people care 9 about. And they've tried different ways to look 10 at it. The Boston Collaborative Drug 11 Surveillance Program was the program that did 12 some of the -- if I'm correct -- did some of the 13 basic research in negative detailing, adverse 14 events of drugs, large scale 15 pharmacoepidemiologic surveillance, risk factors 16 for medication. It's a pretty prestigious 17 program. I'd believe Porter and Jick if they 18 told me something. 19 So you have that data point. You 20 have the heroin studies from the 1910s. You have 21 the burn center unit studies, you have a series 22 of studies of people trying to wrestle to the 23 ground what this is. 24 And frankly, I took the position that 25 that was not the major problem, that the</p>	<p style="text-align: right;">137</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 to this, hospitalized patients within those 3 hospitals that were examined by that program, 4 correct? 5 A. Right. 6 Q. Presumably they would be more acute 7 pain patients, correct? 8 A. Not necessarily. I've looked -- for 9 other drugs I've looked at some of the Porter and 10 Jick Boston collaborative reports. And they 11 didn't differentiate for many of their drugs 12 between acute and chronic treatment. And this 13 was a period in history where patients were not 14 burn rushed out of the hospital very rapidly 15 because of cross-containing concerns. Burn 16 patients could be in the hospital for months, 17 vascular disease patients or severe metabolic 18 patients can be in the hospital sometimes for 19 years. That was not common but it was not rare 20 during these years and during my training years. 21 Q. You'd agree that there's nothing in 22 this particular letter that indicates how long 23 any of these 11,882 patients were in the 24 hospital. 25 A. Absolutely correct.</p>
<p style="text-align: right;">135</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 frequency of iatrogenic dependence, and I've 3 always taken this position, that the frequency of 4 iatrogenic dependence is much lower than the 5 likelihood that the practitioner will be faced 6 with someone with an active addiction problem 7 that they're going to have to manage. 8 Q. It's much lower -- you're saying 9 you're more likely to find a pain patient who's 10 not an addict than is an addict? 11 A. No. What I'm trying to say is that 12 when you have an addiction or abuse problem 13 that's turning up in your practice, the rate 14 among individuals who have active addiction or 15 abuse problems is much higher than the rate among 16 legitimate pain patients who are being treated. 17 And that's in properly treated chronic pain 18 patients. 19 Q. Right, which has a lot of 20 qualifications to it which we talked about 21 before. And I'm trying to understand, pain 22 patients ending up, say, in a pain management 23 clinic -- let me back up. 24 You alluded to it before, there have 25 been a lot of studies related to patients in</p>	<p style="text-align: right;">138</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. In fact, it says who received at 3 least one narcotic preparation, right? 4 A. Yes. 5 Q. In fact, there's not much mentioned 6 in terms of duration of dose, correct? 7 A. That's correct. 8 Q. Dose level. 9 A. Nope. 10 Q. We know a couple of the drugs 11 involved, apparently. 12 A. Yes. 13 Q. Is there any occasion that any of 14 these patients were followed up on after they 15 left the hospital? 16 A. This is a letter to the editor, and 17 it is what it is. And part of the problem with 18 research in this area, and it is a problem of 19 research in this area, is that you can't do the 20 study that you'd like to do. You can't take 21 10,000 pain patients, randomize them to opioid 22 and non-opioid treatment and follow them for ten 23 years and see what happens. 24 In those settings where it's either 25 ethically impossible to do a study or it's not</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">139</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 clear where or how you would do it, you try to 3 put together what you think you know from all of 4 the various bits that you can find. 5 And people have tried to do that. 6 They've done it in a very difficult way. There 7 are investigators who have written reports that 8 if the patient ever asked for more medicine than 9 I thought they should have, that's drug-seeking 10 and they're an addict. And that's true, there 11 are literally studies of this genre where the two 12 practitioners sat down and said how much do you 13 think you ought to have, and he took more than 14 that so I think that was addiction. 15 Q. Well, you mentioned some of the 16 problems with it. Then what are the reliable 17 data set that practitioners or even someone at 18 the FDA who's looking at a drug label can draw 19 upon to reach a conclusion about whether or not 20 iatrogenic addiction is very rare? 21 A. As with most safety issues, there's 22 not a reliable data set. There's what you have. 23 In this particular case what practitioners have 24 was groups like QDP4 and the pain society saying 25 we've gone through these, we've looked at all of</p>	<p style="text-align: right;">142</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 right, is there will be a group that might be 3 more vulnerable to problems because they may have 4 refractory pain syndromes, they may not be able 5 to get the adequate treatment, there may be a 6 greater vulnerability than, say, a pain patient 7 who has not had problems with pain management, 8 correct? 9 MR. STRAUBER: I object to the form 10 of the question. I don't believe that's what he 11 did say. 12 MR. McNAMARA: Then he can correct 13 me. 14 MR. STRAUBER: Sure. 15 A. What I was trying to say was where 16 you look in the healthcare system can lead you to 17 different beliefs about what the actual rate of 18 an event is. Where you look, where you're 19 sitting, what you're doing will lead you to 20 different conclusions because at different places 21 things are more or less common. 22 There's very little disagreement that 23 I know of among those who treat both addiction 24 and pain, that individuals who have addiction and 25 pain are difficult patients to treat and have a</p>
<p style="text-align: right;">140</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 them, we've argued for weeks or months, and 3 here's the guidance that we can give you. 4 I think that they're right because 5 there are a lot of different kinds of data that 6 point in exactly the same direction. 7 MR. STRAUBER: When you reach an 8 appropriate point, can we take an afternoon 9 break? 10 MR. McNAMARA: Sure. 11 Q. The data set as related to chronic 12 pain patient, though, does appear to point in a 13 different direction, correct? 14 A. No. 15 Q. You wouldn't say that the studies 16 involving — that Dr. Chabal and Dr. Robins did, 17 those don't definitively say — 18 A. No. Because there's a scientific 19 problem with — this issue ends up being one that 20 you have to wrestle with, and it has to do — and 21 it's a — I can't remember the technical term for 22 it from my training, but it has to do with things 23 like the prognosis of schizophrenia. 24 This is an issue where this came up. 25 If you look at the prognosis for head injury</p>	<p style="text-align: right;">143</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 poorer prognosis than people who don't have 3 addiction and pain. That's so strongly believed 4 that it comes to you from your state board of 5 quality assurance saying these are things you 6 need to think about when treating addiction and 7 pain. Psychiatric disorders in people with 8 addiction are tough to treat. They're not 9 untreatable, but they're tough to treat. 10 So if you ask what happens to 11 somebody who's tough to treat, they end up in, if 12 the system is working properly, in treatment 13 facilities whose bread and butter is treating the 14 patients that are tough to treat. 15 So when we talked earlier today about 16 the guidelines and guidelines for treatment and 17 what you're supposed to do, one of the things 18 that was in those guidelines was treat them, see 19 what happens, and if you end up treating them and 20 it either isn't going well or you're treating 21 them for a long period of time, seek periodic 22 consultation, expert consultation to make sure 23 that you're doing the right thing. 24 From my perspective, I claim no — I 25 don't claim knowledge that isn't out there. And</p>
<p style="text-align: right;">141</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 patients, the prognosis for schizophrenia is 3 actually pretty good. Most people with 4 schizophrenia that get treatment, they do pretty 5 well. But when you go to a hospital area and you 6 say okay, what's filling most of your beds and 7 what will fill most of your beds are individuals 8 with very severe, very difficult to treat 9 schizophrenia. What you're really talking about 10 is the process by which individuals move through 11 the healthcare system and where they tend to end 12 up. 13 You also end up having to talk about 14 the quality of care. And the reason for this is 15 that when you end up talking about what's going 16 to happen to you if you have chronic pain and 17 you're treated by a Catherine Foley or Russ 18 Portnoy or one of the major pain centers, your 19 risks are probably going to be lower than if 20 you're managed single-handedly by a very stressed 21 nurse practitioner in rural Iowa. 22 Q. That's very interesting. If I 23 understand what you're saying then, there should 24 be some — let me try to rephrase this. 25 The distinction, if I understand you</p>	<p style="text-align: right;">144</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 there's a lot that's not known about addiction, 3 pain and treating pain in patients with 4 addiction. And it's still a lively debate about 5 what the real rate of iatrogenic dependence is as 6 it is dependent upon what — because no one's yet 7 successfully studied it in the way that you could 8 study the cross-sectional rate of diabetes. 9 But I think you can — I think one 10 can reach the conclusion from a study of other 11 prevalent sampling that if you go — if a group's 12 hard to treat and you go to the place where the 13 people who are hard to treat go, you're going to 14 find a lot of them. If a group's easy to treat, 15 they're going to get treated, get well and 16 they're going to go on about their business. 17 MR. McNAMARA: Why don't we take a 18 break. 19 (Recess taken.) 20 BY MR. McNAMARA: 21 Q. Doctor, right before you break you 22 mentioned AHCFR guidelines which discussed 23 iatrogenic addiction, correct? 24 A. Yes, sir. 25 Q. Do you remember the date on those</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">145</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 guidelines? 3 A. No, I'd have to look it up. 4 Q. What does AHCPH stand for again? 5 A. Healthcare Policy and Research. 6 American -- I don't know the next noun, it is the 7 body of the United States Government at that time 8 that wrote guidelines on pain management, that 9 wrote guidelines on many things associated with 10 healthcare. They were fairly conservative 11 consensus guidelines. 12 Q. You mentioned about Porter and Jick 13 in the Boston Collaborative Project. I think you 14 said something along the lines if Porter and Jick 15 told me something, I'd listen to it. Is that 16 what you said? 17 A. If the reports from a public health 18 perspective -- yes, I said that. 19 Q. Would you agree with Dr. Jick that 20 his review that's part of that letter to the 21 editor does not contain information regarding 22 whether people taking OxyContin are at risk of 23 addiction? 24 A. I agree. It couldn't. It wasn't 25 available.</p>	<p style="text-align: right;">148</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. The registry study that was done with 3 regards to OxyContin was an open label -- it was 4 related to an open label protocol, correct? 5 A. Long term follow-up protocol. 6 Q. And you've seen that? 7 A. I've seen reports from it. 8 Q. Have you seen a final report from 9 it? 10 A. I think so. 11 Q. Do you remember when that was? 12 A. No. It was within the last year. 13 Q. I just wanted to show you if I could 14 this exhibit. 15 (Wright Exhibit 13 for 16 identification, Fishbain Review Article.) 17 A. This is the Fishbain review on drug 18 abuse, dependence and addiction in chronic pain 19 patients. 20 Q. I believe it's dated 1992. 21 A. Affirmative. 22 Q. Looking at the -- within the abstract 23 do you see the reference where it says "within 24 these seven studies" ? 25 A. Yes.</p>
<p style="text-align: right;">146</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. How about MS Contin? 3 A. I'm not even sure given that period 4 of time that MS Contin had achieved a large 5 enough market share. 6 Q. You mentioned that there's still a 7 live and real debate over the issue of iatrogenic 8 addiction to opioids. 9 A. About the exact number, yes. 10 Q. So it's not been conclusively shown 11 that less than 1 percent of pain patients taking 12 their opioid medications get addicted? 13 MR. STRAUBER: That's not what he 14 said. 15 MR. McNAMARA: I'm asking him the 16 question. 17 A. I don't think I can answer that. 18 Part of my issue with this question is I am 19 knowledgeable about pain management. But there 20 are people who are far more knowledgeable than me 21 about pain management. My issue is I have been 22 much more slanted toward managing addiction. 23 Q. Well, you are also apparently very 24 familiar with the studies that have been -- the 25 studies out there with regards to addiction</p>	<p style="text-align: right;">149</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. And it says, "The prevalence 3 percentages for the diagnoses of drug abuse, drug 4 dependence and drug addiction were in the range 5 of 3.2 percent to 18.9 percent," correct? 6 A. Yes. 7 Q. And then it states "it is concluded 8 that these diagnoses occur in a significant 9 percentage of chronic pain patients," correct? 10 A. Yes. 11 MR. STRAUBER: Could you read the 12 next sentence for completeness? 13 Q. "However, there is little evidence in 14 these studies that addictive behaviors are common 15 within the drug pain population," correct? 16 A. That's correct. There's a problem, 17 though. 18 Q. You could talk to Mr. Strauber about 19 that if you'd like to discuss it at the end of 20 your deposition. 21 A. All right. 22 Q. You mentioned Dr. Foley and 23 Dr. Portnoy as two of the -- would you call them 24 preeminent pain management specialists in the 25 country?</p>
<p style="text-align: right;">147</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 amongst pain patients, correct? 3 A. I'm familiar with them. I'm not -- I 4 would not want to claim to be an expert in them. 5 Q. Do you know of any single study that 6 shows that chronic -- amongst chronic pain 7 patients there's a less than 1 percent chance of 8 them becoming addicted to their opioid 9 medications? 10 A. Probably one. 11 Q. Which one would that be? 12 A. The registry study that was done by 13 Purdue Pharma on OxyContin. 14 Q. What registry study is that? 15 A. In and around -- it is common for 16 companies to be asked to conduct Phase 4 studies 17 of -- 18 Q. I'm sorry, Doctor, I'm going to 19 interrupt you if I may. My question was what 20 study was it. I am aware that there was a study 21 that -- a registry study. I'm just asking is 22 there any published studies. And you indicated 23 this registry study. Is it a published study? 24 A. I don't know. I thought you asked me 25 what studies I knew of. I'm sorry.</p>	<p style="text-align: right;">150</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Well-recognized experts in pain 3 management. 4 Q. Do you know that Dr. Portnoy as part 5 of his guidelines for the long-term opioid 6 therapy for patients suggested a relative 7 contraindication for patients with substance 8 abuse history? Are you aware of that? 9 A. I'm aware of that. I don't agree. 10 Q. Can you look back at I guess what was 11 the draft label. Which date? 12 MR. STRAUBER: Is that Exhibit 11? 13 MR. McNAMARA: I assume so, yes. 14 A. I found Exhibit 11. Is that the one 15 you mean? 16 Q. Yes, sir. Page 488, do you see the 17 section where it says "abuse potential in human 18 trials" ? 19 A. Yes. Yes, I do. 20 Q. It says here, "In ex-addict prisoner 21 volunteers, parenteral oxycodone was considered 22 to have comparable abuse liability to parenteral 23 morphine in doses that are equianalgesic to those 24 studied in patients with pain. Whether or not 25 the controlled release oral dosage form would</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">151</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 have the same abuse liability has not been 3 studied." 4 Do you remember seeing this 5 language? 6 A. No. But I accept that I did. 7 Q. This sentence here about whether or 8 not the controlled release oral dosage form would 9 have the same abuse liability has not been 10 studied, do you know if that was carried over 11 into the final printed labeling? 12 A. I believe it was not. 13 Q. Do you know why it was taken out? 14 A. I do not know. I can conjecture. I 15 can only conjecture. Do you wish me to? 16 Q. Yes. 17 A. In general, whether or not X has been 18 studied is not very helpful language in the 19 package insert. And there's an inherent bias 20 against that. Some physicians read that as it's 21 true but they just haven't proved it. Some 22 physicians read it as it's false and they didn't 23 want to study it. And it's not language that's 24 considered very helpful. 25 Q. Well, apparently the language that</p>	<p style="text-align: right;">154</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. This appears to be part of the 3 clinical data section, correct? 4 A. Affirmative. 5 Q. And that means the data as to human 6 subjects, right? 7 A. The data initially filed. 8 Q. And looking at page ending Bates 124, 9 in the first paragraph underneath overdose and 10 drug abuse potential, do you see -- well, why 11 don't I just read through it. "Oxycodone 12 products, both single entity and combination 13 products, are scheduled under the Controlled 14 Substances Act." And there's the cite. "All 15 oxycodone products are listed as Schedule II. 16 Oxycodone controlled release tablets should also 17 at present be placed in Schedule II. Both 18 preclinical," and cites Deneau 1957, "and human 19 studies," cites Martin 1966, "suggest that 20 oxycodone is roughly equivalent to morphine as an 21 abusable substance." And there's a reference to 22 another part of the NDA, correct? 23 A. Affirmative. 24 Q. "No specific studies of this 25 controlled release formulation have yet been</p>
<p style="text-align: right;">152</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 was put in to the label instead was that "delayed 3 absorption as provided by OxyContin tablets is 4 believed to reduce the abuse liability of a 5 drug," correct? 6 A. That was certainly -- that was -- 7 yes, that went into the package insert. 8 Q. So that would seem to suggest that 9 it's been studied and it's generally accepted, if 10 not proved, for this particular drug, correct? 11 A. No. Believed means just that. It's 12 believed. Might be a consensus belief, it might 13 be an expert opinion. It's more than conjecture, 14 but if there is evidence, you usually make some 15 statement that there is evidence. 16 Q. Do you know how the sentence "delayed 17 absorption as provided by OxyContin tablets is 18 believed to reduce the abuse liability of a drug" 19 got into the OxyContin label? 20 A. Yes. As a consequence of back and 21 forth iterations of labeling between Purdue and 22 the Food and Drug Administration. 23 Q. Do you know if Purdue asked to have 24 that sentence put into the label? 25 A. I truly do not.</p>	<p style="text-align: right;">155</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 conducted to ascertain if it has a lower abuse 3 potential." 4 A. Correct. 5 Q. So apparently when they submitted 6 their clinical data section their NDA in December 7 of '94, there had been no specific studies of the 8 controlled release formulation as to whether it 9 has a lower abuse potential. 10 A. Correct. 11 Q. Have you also had a chance to look at 12 the references to this particular section? 13 A. Yes. 14 Q. Do you see references to any of the 15 studies you referred to regarding benzodiazepine 16 drugs, nicotine drugs or anything like that? 17 A. No. 18 Q. Did you see any references to what 19 you called soft science or surveys with regards 20 to abuse potential? 21 A. No. There's a problem though. 22 Q. Again, you can explain it to your 23 attorney and talk about it at the end. 24 You mentioned you may have been the 25 person, for lack of a better term, the progenitor</p>
<p style="text-align: right;">153</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Do you know if you suggested it for 3 them? 4 A. I certainly could have. I don't 5 know. 6 Q. Do you recall if in its NDA Purdue 7 submitted any medical or scientific support for a 8 claim that delayed absorption as provided by 9 OxyContin tablets is believed to reduce 10 oxycodone's abuse potential? 11 A. Could you repeat the question, 12 please. 13 Q. Sure. Do you recall if in its new 14 drug application Purdue submitted any medical or 15 scientific support for a claim that delayed 16 absorption as provided by OxyContin tablets is 17 believed to reduce oxycodone's abuse potential? 18 A. I don't know anymore. I truly 19 don't. 20 (Wright Exhibit 14 for 21 identification, document bearing Bates production 22 number 8001039123 through 8001039135.) 23 A. This appears to be a section of the 24 original new drug application initially submitted 25 for OxyContin.</p>	<p style="text-align: right;">156</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 of the "delayed absorption as provided by 3 OxyContin tablets is believed to reduce the abuse 4 liability of a drug," correct? 5 A. It's certainly possible. I don't 6 know whether I -- I don't know. 7 Q. So the label they submitted said we 8 haven't studied whether or not the oral dosage 9 form -- controlled release oral dosage form might 10 have a different abuse liability, correct? 11 A. Correct. 12 Q. And the label that came out said 13 delayed absorption is believed to reduce the 14 abuse liability of a drug. 15 A. Correct. 16 Q. Are you aware of any studies Purdue 17 did between December of 1994 and approval of the 18 label in December of 1995 that showed that 19 OxyContin itself or -- let me withdraw and try 20 that again. 21 Do you recall any studies that Purdue 22 submitted to the FDA between December '94 and 23 December '95 to support a claim that controlled 24 release opioids had a lower abuse potential than 25 other opioids?</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">157</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. No, I do not. 3 Q. Are you aware of any studies that 4 Purdue conducted between December of '94 and 5 December of '95 as to whether OxyContin would 6 have a lower abuse potential than immediate 7 release opioids? And no one at FDA conducted 8 such studies, correct, as to OxyContin? 9 A. No one at FDA conducted studies with 10 respect to OxyContin, that is correct. I do not 11 believe Purdue conducted any clinical studies, 12 new clinical studies during the review period 13 that would answer that question. 14 What I do not know is what summaries 15 of the literature, supplements to the NDA or 16 references discussed with Purdue during that time 17 would have been brought forward in support of 18 that language. 19 Q. Are you aware of any literature that 20 occurred between December of '94 and December of 21 '95 on that specific issue about lower abuse 22 potential? I guess any new information. 23 A. I'm at a disadvantage here because 24 when these drugs come in, it's relatively common 25 for the review staff to look at the adverse event</p>	<p style="text-align: right;">160</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. I don't know. I do not remember 3 being so contacted. 4 Q. You mentioned it's a very weak 5 statement about a class of drugs - I'll move 6 on. 7 Does OxyContin have delayed mu-opioid 8 activity? 9 A. I don't understand the question. 10 What do you mean "delayed mu-opioid activity"? 11 Q. Why don't I show you something and 12 maybe you'll understand. I'd show you Exhibit 22 13 but we're only going to talk about a very small 14 portion of this. 15 MR. STRAUBER: Did you say 22? 16 Q. I'm sorry. Exhibit 15. 17 (Wright Exhibit 15 for 18 identification, document bearing Bates production 19 number 8003007024 through 8003007048.) 20 Q. If I could just direct your attention 21 to the first page and then to page ending 7041. 22 This apparently is a revised version of the draft 23 insert we were just looking at. 24 A. It looks like one of the versions 25 that went back and forth.</p>
<p style="text-align: right;">158</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 experience for other drugs of the class. I'm 3 aware of the fact that there were other 4 controlled release opioids that had come rolling 5 in in and around that period. 6 And I honestly can't say exactly what 7 we knew and what we didn't know during that 8 period other than there was a general agreement 9 that controlled release drugs that slowed 10 absorption were very likely to have less 11 intrinsic risk to the patients. 12 Q. Why was that important to tell 13 doctors? 14 A. Because we believed that it was 15 important to tell doctors something. If you look 16 through the analgesic labels, there was no 17 guidance. There was no - it was replete with 18 not studied, never considered, didn't think about 19 it or it was completely missing. 20 One of the ways to begin to get the 21 pharmaceutical industry to address an issue is to 22 start saying you have to talk about it in 23 labeling. And I think earlier in the day we 24 discussed a variety of communications where I had 25 taken the position during the review process that</p>	<p style="text-align: right;">161</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. And it's dated - this particular 3 version, according to the cover letter, is - the 4 cover letter is dated August 16th, 1995, 5 correct? 6 A. Yes. 7 Q. And it's from Purdue to Dr. Bedford. 8 A. Yes. 9 Q. And in the second paragraph of the 10 cover letter it says, "Attached please find a 11 revised package insert which contains our 12 suggestions for revision. This PI also reviews 13 the initial reviewer comments." 14 Who was the initial reviewer? Would 15 that be you and the rest of your team or would 16 that just be you? 17 A. At this point in time I don't know. 18 There were three other physicians involved in the 19 primary review of OxyContin. And I don't know 20 from this document whether "initial" means me or 21 it means one of the three other people that were 22 looking at that. 23 Q. Which would have been Mike Klein? 24 Who was the third? 25 A. There was Mike Klein, there was</p>
<p style="text-align: right;">159</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 this company should begin to think about this 3 kind of issue and begin to think about the 4 methodology that they would use for addressing 5 this kind of issue. It was one of the reasons 6 that they were asked to do the registry study. 7 Q. The label doesn't say we'll look into 8 it further to do clinical studies, does it? 9 A. The label makes an extremely weak 10 statement about a class of drugs. That was 11 believed to be true and by me is still believed 12 to be true. 13 Q. But has still not been tested with 14 regards to OxyContin and oxycodone in immediate 15 release form. 16 A. No. If it had been, it would have 17 said OxyContin, not drugs - controlled release 18 drugs like OxyContin are believed. It would be 19 OxyContin has been shown. It's a different 20 statement. 21 Q. Were you ever contacted by sponsors 22 of other controlled release opioids after the 23 OxyContin label to ask whether or not they could 24 include language about delayed absorption 25 reducing the abuse liability of their product?</p>	<p style="text-align: right;">162</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Belinda Hayes, there was - I'm blocking on his 3 name. Jack Longmeyer and Doug Kramer. 4 Q. Is that the same Doug Kramer you work 5 with now? 6 A. Yes. 7 Q. He was also part of the team that 8 looked at the OxyContin label? 9 A. No. I think he just looked at one of 10 the medical reviews for one of the studies. 11 Q. Looking at the section on 7041, drug 12 abuse and drug dependence, there's an underlined 13 statement that says, "Delayed mu-opioid activity 14 as provided by OxyContin tablets is believed to 15 reduce the abuse liability of a drug." 16 Do you know who inserted that 17 sentence in there, if that was FDA or Purdue? 18 A. I have no idea. It's not a very good 19 sentence. From the document I just simply can't 20 tell whether that underlined version is what the 21 primary reviewer showed in or whether it was 22 Purdue's. I just don't know. 23 Q. Understood. 24 (Wright Exhibit 16 for 25 identification, document bearing Bates production</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">163</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 number 8003007060 and 8003007076.) 3 A. This looks like this is two versions 4 later. 5 Q. This is correspondence on August 31st 6 of 1995? 7 A. Yes. 8 Q. Between Purdue and Dr. Bedford about 9 another revision to the label? 10 A. Yes. 11 Q. And you said it's two versions 12 later. This says version 011, and I think the 13 August 16 letter said 006. 14 A. That's not two versions later. 15 That's five versions later. 16 Q. Looking at page ending 7076, again, 17 it's the drug abuse and dependence section. And 18 it looks like there's an alteration to the 19 sentence we just read. "Delayed absorption," and 20 crossed out is mu-opioid activity, "as provided 21 by OxyContin tablets is believed to reduce the 22 abuse liability of a drug." 23 A. I see that. 24 Q. Apparently that's the time when that 25 got changed?</p>	<p style="text-align: right;">166</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. It's always important to be 3 accurate. Only God is perfect. 4 Q. Right. It was something that you 5 would do in the ordinary course of business as a 6 medical officer at the FDA? 7 A. Yes. 8 Q. And it would be part of the ordinary 9 course of your business, as you said, to do such 10 reviews when you'd get new clinical data, 11 correct? 12 A. Yes. 13 Q. Looking at this Exhibit 17, aside 14 from the cover page, do you recognize Exhibit 15 17? 16 A. It certainly looks like my original 17 medical officer review for the integrated summary 18 of safety. 19 Q. Integrated summary of safety would 20 mean you'd take all the clinical data as to 21 safety information and basically summarize it? 22 A. No. 23 Q. What does it mean? 24 A. The integrated summary of safety is a 25 specific document or jacket produced by the</p>
<p style="text-align: right;">164</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. I think so. Again, I don't know 3 whether that was the kineticist or the 4 pharmacologist or who it was. 5 Delayed mu-opioid activity is a 6 phrase I've never heard. I mean, it's not how 7 these things are normally said. And that might 8 have been the kineticist. Or it might have been 9 the company. I just don't know. 10 Q. Do you have any specific recollection 11 of anyone at Purdue asking if they can include 12 the phrase "delayed absorption as provided by 13 OxyContin tablets is believed to reduce the abuse 14 liability of a drug"? 15 A. I don't know. We go back and 16 forth -- this is like the eleventh version of the 17 label. And each time the company would say we're 18 not comfortable saying that, we're not sure we 19 have the justification for it. 20 I never got the feeling that they 21 were dredging for claims. I mean, you sometimes 22 get that feeling when they're negotiating -- when 23 the company's negotiating. You get the feeling 24 they're trying to dredge. But I just don't 25 know. Somewhere around version 15 I lost count.</p>	<p style="text-align: right;">167</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 pharmaceutical firm and submitted as part of 3 their AND application. This would be a review of 4 what Purdue submitted in terms of their 5 integrated summary of safety. 6 Q. Understood. Looking at the first 7 page, the sentence that starts "controlled 8 studies of the CR form." Do you see where I am 9 on the first paragraph underneath summary? 10 A. "Controlled studies of the CR form 11 against immediate release of oxycodone suggest 12 slightly lower peak to trough." 13 Q. "Used as directed in an adverse event 14 profile as good as currently available in QID 15 formulations." Do you recall that being 16 accurate? 17 A. No. If I had it to write over again, 18 I would probably say an adverse event profile as 19 good as the immediate release formulation studied 20 in the clinical trial. 21 Q. Okay. Looking down to the sentence 22 under background where it says "because of the 23 differences." It's the short paragraph right 24 above "deaths." 25 A. The sentence reads "because of the</p>
<p style="text-align: right;">165</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 (Wright Exhibit 17 for 3 identification, Medical Officer Review.) 4 Q. Do you recall doing a medical officer 5 review for OxyContin? 6 A. I think I did a number of them. 7 Yes. 8 Q. What is a medical officer review? 9 A. What was your question? 10 Q. What is a medical officer review? 11 What is it? 12 A. It can mean slightly different 13 things. Every document that comes into the 14 agency that contains new clinical information or 15 purported conclusions from clinical information 16 needs to be examined-- I won't say need to, but 17 is usually examined by a medical officer who 18 examines it to see if what the company has 19 submitted is likely to be true, what the quality 20 of the data is, what conclusions can be drawn 21 from it. And this review, once signed and final, 22 becomes part of the administrative effort for the 23 drug. 24 Q. So it's a rather important document 25 to be accurate on back when you were at the FDA?</p>	<p style="text-align: right;">168</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 differences in profile, it would be theoretically 3 possible for the CR drug to have a safety profile 4 that is better, worse or similar to the IR 5 form." 6 Q. What did you mean by that? 7 A. That in discussions within the 8 agency, no conclusion had been reached in general 9 as a principle whether the safety profile, and by 10 that I mean the emergence of any adverse event 11 associated with the drug, would by definition be 12 better, worse or about the same. And there had 13 been extensive discussion about that. 14 Q. And by saying it could be better, 15 worse -- you basically are agnostic. It's not, 16 right? 17 A. Right. 18 Q. Looking on page 2, if I could direct 19 you to the portion that says "withdrawal 20 symptoms," it notes "symptoms of withdrawal were 21 observed in seven patients in five clinical 22 studies." And after discussing some of those 23 issues, at the end, the last sentence says, "The 24 label should contain the usual physical 25 dependence language."</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">169</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Yes. 3 Q. Do you know if the OxyContin label 4 contained the usual physical dependence 5 language? 6 A. At this point in time I don't know 7 what I meant by the "usual physical dependence 8 language." What I would say today is the 9 OxyContin label should contain physical 10 dependence language that warns about the 11 possibility of withdrawal and suggestions on how 12 to prevent it and manage it. 13 Q. Are you aware of any differences 14 between the portion of the OxyContin label that 15 discusses withdrawal symptoms and the MS Contin 16 label that discusses withdrawal symptoms? 17 A. I haven't compared the two. 18 Q. You have the OxyContin label handy I 19 believe. So let me get you the MS Contin label. 20 If you could look at the March of 2000 exhibit, 21 please. 22 MR. STRAUBER: Number 10. 23 (Wright Exhibit 18 for 24 identification, MS Contin Product Label.) 25 Q. I'm going to focus your attention to</p>	<p style="text-align: right;">172</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 And then there's a phase of secondary or chronic 3 absence may last from two to six months. 4 Q. Is that what you meant by the usual 5 physical dependence language under the concept of 6 withdrawal symptoms in your medical officer 7 review? 8 A. No. 9 Q. Fair enough. Looking at your medical 10 officer review, at page 3 underneath patients, do 11 you see where it says last paragraph, towards the 12 bottom, "the patients enrolled into controlled 13 studies ranged widely in length of exposure from 14 one day to 22 weeks and in mean total daily dose 15 from 10 milligrams to 720 milligrams of CR 16 oxycodone." It says "duration ranged from a few 17 days to 32 weeks controlled and open label 18 studies with a modal exposure of five to seven 19 days." 20 What does that mean, "modal exposure 21 of five to seven days"? 22 A. That the most frequent exposure was 23 five to seven days. As I remember this data set, 24 there was a significant frequency of -- there was a 25 high frequency of two-week crossover studies</p>
<p style="text-align: right;">170</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 page -- they're numbered. The pages aren't 3 numbered. The lines are numbered on mine. The 4 OxyContin one has a section marked tolerance and 5 dependence located on page ending 323. And the 6 MS Contin one -- 7 A. There don't appear to be page numbers 8 on the MS Contin one. 9 Q. No, there are not. If I can direct 10 you to -- 11 A. There's a section called drug 12 dependence in the MS Contin label. 13 Q. Right, starting at 440, and the 14 section I want to point you to -- 15 A. 440? 16 Q. Line 440. If I could start with the 17 OxyContin label, and starting in the middle 18 column after the statement overdosage, it says 19 "if OxyContin is abruptly discontinued." Do you 20 see that? In the middle column down towards the 21 bottom. 22 A. Yes. 23 Q. Do you see where it says "if 24 OxyContin is abruptly discontinued in a 25 physically dependent patient, an abstinence</p>	<p style="text-align: right;">173</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 and single dose analgesia studies which would 3 tend to lower both the modal frequency and the 4 average frequency. 5 Q. Do you know how many patients used -- 6 there's some reference to 22 weeks and 32 weeks, 7 et cetera. Do you know how many patients used 8 OxyContin for more than a month -- 9 A. It would be very few. 10 Q. Does it sound right that about 11 11 patients used between 13 and 22 weeks? 12 A. Probably right. I don't know. 13 That's on the order of magnitude. 14 Q. Would you say about 434 out of 445 15 were under 29 days? 16 A. That's certainly possible. 17 Q. Looking ahead in your MOR, you're 18 talking about I guess starting on page 4, second 19 paragraph -- second section, adverse events in 20 clinical settings. 21 Was there a claim at some point by 22 the company that they sought a superiority -- 23 well, let me rephrase that. 24 Did Purdue seek a superiority claim 25 in terms of adverse event profiles for OxyContin</p>
<p style="text-align: right;">171</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 syndrome may occur. This is characterized by 3 some or all of the following." And it lists a 4 series of symptoms including restlessness, 5 lacrimation, rhinorrhea, yawning, perspiration, 6 chills, myalgia and mydriasis. 7 A. Yes. 8 Q. Other symptoms also may develop, 9 including irritability, anxiety, backache, joint 10 pain, weakness, abdominal cramps, insomnia, 11 nausea, anorexia, vomiting, diarrhea or increased 12 blood pressure, respiratory rate or heart rate. 13 A. Yes. 14 Q. Can I direct you to the MS Contin 15 label starting at line 454. Do you see where it 16 says "if MS Contin is abruptly discontinued"? 17 A. Yes. Restlessness, lacrimation, 18 rhinorrhea, yawning, perspiration, gooseflesh, 19 restless sleep, and mydriasis during the first 24 20 hours. These symptoms often increase in severity 21 and over the next 72 hours may be accompanied by 22 a long list of things. Sweating, diarrhea, 23 ketosis, disturbances in acid-base balance, 24 cardiovascular collapse. Without treatment most 25 observable symptoms disappear in 5 to 7 days.</p>	<p style="text-align: right;">174</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 as compared to immediate release opioids? 3 A. At various times during the 4 development of the drug they talked about that as 5 a hope. In a number of versions of the package 6 insert -- this I actually do remember. In a 7 number of versions of the package insert, the 8 tables, the summary tables, if they were looked 9 at would give an impression of a better safety 10 profile for CR versus IR. 11 Because of some unbalanced 12 randomization and the distribution of the 13 patients across the different studies, I felt 14 that a claim of superiority was not justified, 15 and I believe I expressed that to Purdue and I 16 think I did my best to see that my suggestions 17 pertaining to any such claims were incorporated 18 into the final version of the label. 19 Q. And we looked at the label. Do you 20 recall seeing anything in the label about a claim 21 of superiority in terms of adverse events? 22 A. The only possible such claim is that 23 very class specific language with respect to 24 abuse liability. For the adverse events I think 25 I tried very hard not -- to see that no such</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">175</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 language crept in. 3 Q. Purdue claimed, nevertheless, that 4 OxyContin had a better adverse event profile than 5 immediate release opioids despite it not being in 6 the label. Would that be a problem from a 7 regulatory standpoint? 8 A. Making claims that are not in the 9 label is a regulatory problem. How severe a 10 problem and how it should be addressed and 11 corrected is something that DDMAC would do. I 12 couldn't advise. 13 Q. OxyContin -- for the efficacy 14 studies, OxyContin was compared twice -- Q12H 15 versus immediate release drugs Q6H, correct? 16 A. Yes, sir. 17 Q. So BID versus QID, correct? 18 A. Yes. 19 Q. And it says IR oxycodone. Do you 20 know what product was used for the IR oxycodone? 21 A. My understanding was that that was a 22 Purdue immediate release product. 23 Q. Do you know if some of the studies 24 actually used were oxycodone? 25 A. They certainly could have. I don't</p>	<p style="text-align: right;">178</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Do you recall finding that OxyContin 3 had provided equianalgesic effect dosed BID 4 against immediate release oxycodone compounds 5 dosed QID? 6 A. By the standards of today, no. By 7 the standards of an IR switch in 1992, probably. 8 Q. This is '95. 9 A. '92, '95, whenever the right number 10 was. As I said before, we weren't sure what the 11 right level -- where to set the right level of 12 efficacy for drug substances that we knew worked, 13 that were old drugs that had known risk profiles 14 pretty much, that were brought forward in CR 15 dosage forms, usually as 505 B2 implications. 16 So there was a lot of confusion at 17 that time as to how much was enough. 18 Q. Well, looking at today's standards, 19 if you find OxyContin worked as well at relieving 20 pain dosed twice a day as compared to a drug 21 which is clinically used Q4H but in the studies 22 was dosed Q6H, haven't you found OxyContin does 23 not work as well as immediate release opioids 24 when they are dosed in the normal clinical form? 25 A. Depends on the total daily dose.</p>
<p style="text-align: right;">176</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 know. 3 Q. The Purdue immediate release product 4 that was used, do you know if it had been 5 marketed? 6 A. At this point in time I don't know. 7 Q. Do you know if that was an 8 appropriately indicated Q6H product or an 9 appropriately indicated Q4H product for pain 10 relief? 11 A. Most of the IR oxycodone products 12 that are combo products are indicated Q4 to 6 13 hours. They all have the same sort of label. 14 One to two tablets Q4 to 6 hours PRN pain. 15 That's the standard on the label, varying 16 somewhat with some products. 17 Immediate release oxycodone is a 18 funny drug because it is available from a number 19 of manufacturers, or at least was at that time 20 from a number of manufacturers who never 21 submitted an NDA at all. 22 I can't comment on the FDA position 23 on that, although in general there was a general 24 sentiment that products that were not on the 25 market as that product made by that manufacturer</p>	<p style="text-align: right;">179</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Because there's two questions you're wrestling 3 with. One is when do you dose it, and the other 4 is how much of it do you dose in a 24-hour 5 period. 6 If you had found for the immediate 7 release oxycodone that there was -- that the 8 patients were crashing from an analgesic 9 perspective in the troughs, or if you found 10 pharmacokinetically that the troughs were much 11 deeper, then you'd worry about that. We did 12 worry about that for a number of products. 13 Particularly difficult for some of the 14 antihistamines. 15 Q. Looking at the last page of your 16 medical officer review, page 9, you give your 17 summary and conclusions. I'm sorry, I have to 18 back you up one page to page 8. Do you see where 19 it says "dropouts"? 20 A. Yes. 21 Q. "Total of 157 patients, 32 percent 22 discontinued from the completed clinical trials 23 out of the total of 491 patients. This 491 total 24 represents the 445 individual patients exposed to 25 CR oxycodone initially as well as 46 patients who</p>
<p style="text-align: right;">177</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 needed a new drug application. But there was 3 controversy over that, and I don't pretend to be 4 an expert in that law. 5 Oxycodone and hydrocodone and some 6 other drugs, if you look them up in the standard 7 works of pharmacology are Q4 to 6 hour drugs. 8 Sometimes they're Q4, sometimes they're Q6. 9 Generally in clinical trials you're forced to 10 make a choice. And in most of the trial IR/CR 11 switch trials like that you try to find an even 12 multiple of the longer duration drug to dose the 13 shorter duration drug. 14 Could someone make a case that IR 15 oxycodone was a Q4 hour drug? I think you 16 could. Certainly in some patients it would be. 17 Q. Looking at your medical officer 18 review, you had found that OxyContin provided 19 equivalent -- let me just step back because I 20 think this is sort of generally discussed. 21 Actually, it might be on the first page. It's 22 the sentence we talked about earlier under 23 background, OxyContin is a BID dosage form of an 24 old QID drug, correct? 25 A. Yes.</p>	<p style="text-align: right;">180</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 were exposed a second time." And then you state 3 the two primary reasons for withdrawal. I guess 4 from the studies, right? 5 A. Yes, sir. 6 Q. Were for adverse experiences, 58 or 7 11.8 percent of patients enrolled, and for 8 ineffective treatment, 63 or 12.8 percent, which 9 account for most of the discontinuations. 10 Do you remember those numbers to be 11 accurate? 12 A. I have no idea at this point. 13 Q. And you state here "three studies 14 have substantial discontinuation rate due to 15 ineffective treatment because titration and 16 rescue were not permitted." 17 What is rescue medication? 18 A. Rescue medication is smaller or small 19 amounts of an analgesic medication that's given 20 in the course of treatment with a primary 21 analgesic to manage breakthrough pain or to 22 manage ineffective analgesic response for any 23 other reason. 24 Q. Is it customary to use rescue 25 medication on a daily basis?</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">181</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Oh, yes. 3 Q. Even if you're taking a controlled 4 release product? 5 A. Yes. 6 Q. Even if you're taking it 7 around-the-clock as prescribed? 8 A. Yes. 9 Q. Is it customary to take it twice a 10 day? 11 A. There are -- I'm having trouble with 12 "customary" because there are significant 13 numbers of patients whose daily regimen includes 14 both their baseline opioid and either their 15 breakthrough or the rescue medication. 16 Q. Okay. 17 A. It's more usual than not. 18 Q. Is it more usual to take it as a 19 result of instant pain or as a result of the drug 20 not working long enough, the baseline opioid? 21 A. Depends on the setting. One of the 22 problems in the analgesic pain models that we 23 used, especially the single dose analgesic pain 24 models, is that after about four to six hours of 25 asking somebody how their pain is, they begin</p>	<p style="text-align: right;">184</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 studies that compared OxyContin to immediate 3 release opioids, were they always involved with 4 immediate release opioids that were dosed on a 5 QID basis? 6 A. I think so. 7 Q. Did you ever -- were any studies 8 ever -- do you recall any of the clinical studies 9 ever showing that OxyContin dosed BID was a more 10 effective analgesic than immediate release 11 opioids dosed QID? 12 A. I don't think so. 13 (Wright Exhibit 19 for 14 identification, document bearing Bates production 15 number 8113900101 through 8113900102.) 16 A. How may I help you? 17 Q. This is apparently a contact 18 report -- actually, it's two now that I look at 19 it. Let's look at the second page. It looks 20 like a contact report from September 1992. 21 A. Yes, sir. 22 Q. I'm going to direct your attention to 23 the paragraph that says, "Dr. Wright was then 24 informed," I guess it's the second full 25 paragraph, "was then informed that there were</p>
<p style="text-align: right;">182</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 asking for rescue a lot. 3 And one of the usual standards for 4 determining duration of analgesic effect is to 5 look at the time to 50 percent rescue. That's 6 one of the keys. It was a rare drug among the 7 longer half-life drugs where the 50 percent 8 rescue point was further out than the 9 remedication interval. Half, a third, two-thirds 10 of the patients could be remedicated before the 11 nominal remedication rate. 12 Q. Do you know if any of the clinical 13 trials, if OxyContin was dosed Q8H instead of 14 Q12H? 15 A. I don't think it was dosed Q8H. 16 Q. Are you aware either at the FDA or 17 now of any clinical data about OxyContin being 18 dosed Q8H as compared to Q12H? 19 A. There have even been some 20 publications about it. 21 Q. Do you know how often OxyContin is 22 dosed Q8H by physicians as opposed to Q12H? 23 A. I can give you a range but I don't 24 know that it's right. About 16 percent of the 25 time.</p>	<p style="text-align: right;">185</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 other aspects of our oxycodone program besides 3 the core program. We mentioned the special 4 population studies which he thought were a good 5 idea. Then we discussed the competitive 6 studies. He said it was very difficult to claim 7 clinical superiority." 8 Do you remember having that kind of a 9 discussion with Dr. Reder or Dr. Fitzmartin or 10 anyone else at Purdue? 11 A. I don't remember having the 12 discussion. I have no reason to doubt the 13 minutes and I had those kind of discussions all 14 the time. 15 Q. And according to this you told them 16 that the sponsor must demonstrate clinical 17 superiority with appropriate dosing of the 18 competitor drug. Traditional studies may not be 19 able to show this. 20 Do you know what you meant there? 21 A. Yes, the effect size, if someone 22 wanted to show that a drug was better than 23 another drug, they would need to study both drugs 24 in a design that included a placebo, to do that 25 twice, and to have a statistically significant,</p>
<p style="text-align: right;">183</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. 16? 3 A. Yes. 4 Q. Looking on page 9 where you have your 5 summary and conclusions, you have under the -- 6 you note, "A potential risk associated with CR 7 oxycodone is the possibility for immediate 8 release of the oxycodone if the tablets are 9 crushed." 10 A. The statement where it says "crushing 11 of the CR oxycodone tablets can lead to immediate 12 rather than controlled release of oxycodone." 13 Q. You're looking at number 6. I was 14 looking up top. It doesn't really matter. 15 Another one of your conclusions that 16 you said are supportable is number 1, "CR 17 oxycodone is of acceptable risk when administered 18 on a BID basis." Correct? 19 A. Yes. 20 Q. Did you find that based upon the 21 clinical studies that OxyContin was an effective 22 analgesic when dosed Q12H? 23 A. Based on the clinical and 24 pharmacokinetics studies, yes. 25 Q. Did the clinical and pharmacokinetic</p>	<p style="text-align: right;">186</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 clinically relevant end point superiority. 3 That's the usual standard for a superiority claim 4 in that period at the agency. 5 Q. Looking at the last sentence of that 6 section -- of that paragraph, you state that "the 7 IR drug would have to be labeled Q6H, not Q4 to 8 6H," right? 9 A. Yes. 10 Q. You were telling them if you're going 11 to make a competitor claim, you need to have a 12 Q6H IR drug and not one that might be a Q4 to a 13 Q6H, correct? 14 A. I don't think that's what I -- I 15 don't know what I meant at that time. It's 16 certainly possible. 17 If you were going to make the claim, 18 then you'd have to make exactly the claim that 19 you described, that if you had a drug, you'd have 20 to pick a drug that QID dosing was an appropriate 21 dosing schedule for the drug. 22 Part of the difficulty with this is 23 that there is no single entity oxycodone, or 24 wasn't at that time, a high level of use of 25 single entity oxycodone immediate release. Most</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">187</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 of it was in the combination products. 3 And in actual clinical use 4 around-the-clock dosing with combos was actually 5 relatively uncommon. Very few patients actually 6 achieved that level of dosing. 7 If they wanted a competitive claim, I 8 think the impression I gave them was that this 9 would be challenging, there would be a lot of 10 discussion about it and I didn't know how it 11 would end up. 12 Q. Now, you mentioned at that time there 13 weren't too many single entity immediate release 14 oxycodone products. There are now more, correct, 15 today? 16 A. I'm not sure. I just simply don't 17 know about the competitive marketplace in that. 18 Q. Do you know if the use of single 19 entity oxycodone products has increased since 20 1992? 21 A. The use of single entity oxycodone 22 has certainly increased since OxyContin has been 23 on the market. Whether the use of single entity 24 immediate release oxycodone has increased, I 25 would suspect based on the increase of use of</p>	<p style="text-align: right;">190</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 start for in-house discussion." 3 A. Yup. 4 Q. And therefore you replied. So 5 Dr. Reder sent this to you in order to – 6 A. Sent it to everybody as a start. 7 Q. Well, not to everybody. 8 A. Well, these were the people that 9 would be thinking about it. The person who had 10 the greatest power there would be Patty Richards 11 and David Haddox. Patty is the medical officer. 12 David is the risk management expert. But what 13 Robert – and I looked at it and said how about 14 this. 15 Q. Okay, and Dr. Reder had offered up 16 language about oxycodone, the active ingredient 17 in OxyContin tablets, is a drug with a long 18 history of abuse, oxycodone is highly sought 19 after. It is abused in a manner similar to abuse 20 seen with morphine, hydromorphone or heroin. 21 This must be kept in mind when prescribing or 22 dispensing OxyContin. That was his. 23 And your response to it was "wahoo, 24 neat first chop. Thanks, Robert. How about 25 genericizing it and adding a contact sentence."</p>
<p style="text-align: right;">188</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 most opioids that it has, but I don't know for 3 sure. 4 MR. STRAUBER: Before you turn to 5 your next exhibit, could we take a short break? 6 MR. McNAMARA: Yes. Could we keep it 7 real short though? 8 MR. STRAUBER: Yes. 9 (Recess taken.) 10 (Wright Exhibit 20 for 11 identification, document bearing Bates production 12 number 8810119940.) 13 A. Looks like another discussion of a 14 label version annotation between Robert Reder and 15 this looks like it's interior. 16 Q. This is after you started at the 17 company, correct? 18 A. Yes, this is after I started at the 19 company. 20 Q. This is an e-mail from you to 21 Dr. Reder and some other folks about a revision 22 to the OxyContin label, correct? 23 A. Uh-huh. I think so. 24 Q. You joined in December '98, you 25 joined Purdue?</p>	<p style="text-align: right;">191</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 What did you mean by genericize? 3 A. This wouldn't be the next time – the 4 first time that we have to wrestle with the 5 problems of opioid dependence. And one of the 6 questions is how much did this apply to any 7 controlled release opioid or how much of this was 8 specific to OxyContin. 9 So when I said genericizing it, I'm 10 sorry -- by the way, I'm sorry that my language 11 was intemperate, but I thought that Robert had 12 done a good job. 13 So the first question was what does 14 genericizing it mean, it says maybe we should use 15 this kind of language for all controlled release 16 opioid products. And the context sentence was 17 how we should put someplace to call to get more 18 information. 19 Q. Was there a goal by Purdue that any 20 changes to the OxyContin label on the issues of 21 misuse, abuse and diversion be not just applied 22 to OxyContin but classwide to other opioids? 23 A. I don't know. I couldn't – 24 Q. Okay. 25 A. It's hard for me to answer for a</p>
<p style="text-align: right;">189</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Yes. 3 Q. And in the spring of 2001 there was 4 some discussion with the FDA about revising the 5 OxyContin label, correct? 6 A. Yes. 7 Q. And what role did you have in the 8 revision of the OxyContin label in the spring of 9 2001? 10 A. Not much. I was – I think they kept 11 me informed as a courtesy and asked me if I had 12 any input. But I was not – neither negotiating 13 and managing it nor had authority over it. 14 Q. In this particular instance it looks 15 like you were asked for some assistance on 16 language to offer to the FDA as a warning 17 precaution in the label and promotional pieces, 18 correct? 19 A. No. I think this is a situation 20 where I offered some language. 21 Q. Well, looking at the e-mail that 22 preceded yours on Thursday, March 29th, it says 23 from Robert Reder to, and it has Dr. Haddox, 24 Dr. Santa Paolo, it has you and it has Patricia 25 Richards. It says "all, how about this as a</p>	<p style="text-align: right;">192</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 whole company because I'm only an executive 3 director in clinical. 4 Q. Gotcha. Did you ever look at any of 5 the suggested revisions for the OxyContin label 6 in the spring and summer of 2001? 7 A. I sure could have. I don't know. 8 Because e-mail is easy, people send me stuff. 9 Q. I'll make it real easy if I just 10 focus us on the language that's most important in 11 this particular instance. 12 (Wright Exhibit 21 for 13 identification, document bearing Bates production 14 number 9101803708 through 9101803709 and 15 9101803722.) 16 A. This appears to be a regulatory 17 submission of Cynthia McCormick to Chris Prue, 18 the regulatory specialist on OxyContin. 19 Q. This is back in June of 2001, 20 correct? 21 A. Yes, sir. 22 Q. Looking at the body of the cover 23 letter to the submission, the second paragraph 24 says "attached is PPLP's response to your 25 recommendations in both the red lined strike-out</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">193</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 version and a clean copy of the revised text. We 3 agree with most of the recommendations made in 4 the May 23, 2001 document and have incorporated 5 suggested changes in several places. Most 6 notably, we have created language in a black box 7 warning and incorporated the suggested language 8 regarding abuse, liability and diversion." 9 Do you see that? 10 A. Yes. 11 Q. The last paragraph on that page says, 12 "As you indicated to PPLP during our meeting on 13 April 23rd and subsequently at our May 31st, 2001 14 meeting at the Drug Enforcement Administration, 15 we understand it to be your intention to treat 16 all pharmaceutical companies equally and apply 17 the same standards to all Schedule II and III 18 narcotics as are being requested of PPLP." 19 Do you remember seeing this 20 submission? 21 A. No. But again, I didn't have -- I 22 was not on the team that was tasked with 23 preparing this. 24 Q. Looking at page ending 722, there's 25 the section on misuse, abuse and diversion of</p>	<p style="text-align: right;">196</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 June 7th version we just looked at. 3 A. I couldn't be certain of that. 4 Q. That version did talk about -- I 5 believe it did have that statement that -- 6 A. Rare. 7 Q. Yes. Right. And in that version it 8 said the development of addiction to opioids in 9 properly managed patients with pain is rare. And 10 this note to sponsor says the 'rare' statement 11 should be omitted in favor of the more positive 12 advice found in the second sentence. Which, 13 looking at this version, concerns about abuse, 14 addiction and diversion should not prevent the 15 proper management of pain. That's now the first 16 sentence, and a new second sentence is added. 17 "The development of addiction to opioid 18 analgesic in properly managed patients with pain 19 is as uncommon as that seen in the general 20 population." 21 A. Uh-huh. 22 Q. Do you remember ever looking at that 23 suggested language? 24 A. No. I don't remember. I don't think 25 I did.</p>
<p style="text-align: right;">194</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 opioids. Do you see that? 3 A. Yes. 4 Q. Do you see the sentence "development 5 of addiction to opioids"? It's I guess the 6 fourth paragraph down. 7 A. Yes. 8 Q. It says, "Development of addiction to 9 opioids in properly managed patients with pain is 10 rare. Concerns about abuse, addiction and 11 diversion should not prevent the proper 12 management of pain." And there's a citation to 13 NIDA. 14 A. Uh-huh. 15 Q. Do you know if the FDA accepted that 16 language? 17 A. I don't know. 18 Q. Are you familiar with that NIDA 19 publication in the annotation? 20 A. I think I may be. It's a 21 discussion -- it was prepared about mid-year by 22 NIDA with respect to drug abuse. 23 Q. Do you know the basis for NIDA saying 24 that opioid -- sorry, saying the development of 25 addiction to opioids in properly managed patients</p>	<p style="text-align: right;">197</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 (Wright Exhibit 23 for 3 identification, document bearing Bates production 4 number 9101804075 through 9101804076.) 5 Q. If I could direct your attention to 6 the paragraph "we have reviewed." The third 7 one. "We have reviewed the revised draft package 8 insert with your latest comments and believe that 9 we are close to resolution on the outstanding 10 issues. We would like to amend the sentence 11 still under discussion in the misuse, abuse and 12 diversion of opioid section to read 'the 13 development of addiction to opioid analgesics in 14 properly managed patients with pain is rare and 15 thought to be a function of a given patient's 16 predilection to becoming addicted.' 17 A. Yes, sir. 18 Q. So this is yet another suggested -- 19 A. Another go-around on what can be put 20 in the second sentence. 21 Q. And did you have any input in that 22 sentence? 23 A. No. 24 Q. Do you know if that language was 25 adopted? About the predilection?</p>
<p style="text-align: right;">195</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 with pain is rare? 3 A. No. 4 Q. Do you know if they relied upon the 5 1980 letter to the editor by Drs. Porter and 6 Jick? 7 A. I don't know. 8 (Wright Exhibit 22 for 9 identification, document bearing Bates production 10 number 9101804000 and 9101804012.) 11 A. Looks like they're going back to the 12 label versions again. 13 Q. Looking at the label section here, 14 misuse, abuse and diversion of opioid section, 15 page ending 012, there is a strike-out version of 16 looks like a note to sponsor. Do you see that? 17 A. Yes. 18 Q. It says, "Note to sponsor, this 19 information is misleading. The incidence of 20 addiction is no greater or less than expected in 21 the general population. The 'rare' statement 22 should be omitted in favor of the more positive 23 advice found in the second sentence." 24 I assume based upon the dates of 25 these letters that that was referring to the</p>	<p style="text-align: right;">198</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. I have no idea. It's important to 3 remember that with respect to OxyContin, I 4 have -- I believe and still believe that I have 5 specific restrictions with respect to 6 presentations to the government. And so I would 7 not have been participating in telephone calls 8 with the agency discussing label language. 9 Q. But with regards to talking with 10 Dr. Reder, Dr. Haddox, Patricia Richards about 11 suggested language -- 12 A. To the best of my knowledge, I have 13 no restrictions on working in that way. In 14 general, Purdue has been very sensitive to not 15 asking me to engage in any activities that might 16 even come close. 17 Q. I only have one copy of this but you 18 may have it. It's the current labeling. 19 (Wright Exhibit 24 for 20 identification, Current Labeling.) 21 Q. If I could direct you to I guess page 22 10 of the OxyContin label, if you'll look at the 23 last page, I think this is the current label, 24 right? If you look at the very last page it has 25 a date of July 18th, 2001.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">199</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. I do not know what current version of 3 the OxyContin label that we're working off of. 4 So I can't help you there. 5 Q. Well, do you see on page – 6 MR. STRAUBER: I'd just like to note 7 that there's numerals in handwriting at the 8 bottom of the page. I assume that's not part of 9 the exhibit, it was added? 10 MR. McNAMARA: It was added after. 11 It was downloaded off the Purdue site. 12 Q. Looking on page 10, do you see the 13 section towards the bottom "misuse, abuse and 14 diversion of opioids"? It should be underneath 15 the warning section. 16 A. I'm having trouble. Page 10, which 17 paragraph? 18 Q. Look for the section underneath 19 warnings where there's the bold warning under 20 section misuse, abuse and diversion. 21 A. I found the section. 22 MR. STRAUBER: The page has the 23 number 9 written on it. 24 Q. Underneath misuse, abuse and 25 diversion – actually, it starts on the next</p>	<p style="text-align: right;">202</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 a chance to rest a little bit. Actually, I think 3 the debate's about the quality of the evidence, 4 not about the rate of addiction. 5 Q. Would you agree that studies such as 6 those done by Dr. Chabal and Dr. Robins have 7 found percentages of abuse – just stay with 8 abuse, that are much higher than, say, other 9 studies done by some other investigators? 10 A. In highly selected populations, yes. 11 Q. And I guess that highly selective 12 population goes both ways, correct? 13 A. Absolutely. 14 Q. Highly selected population may 15 mean – 16 A. Selected for or selected against. 17 Q. Hospitalized patients in acute pain 18 as compared to possibly outpatients attending a 19 multidisciplinary pain management center. 20 A. It's more than that. I have feelings 21 of difficulty in this area. Most of the papers 22 that you're referring to or citing or that exist 23 in this area are essentially case series. 24 They're saying we looked at the last 20, 40, 30, 25 72, 150, whatever the number is patients we ran</p>
<p style="text-align: right;">200</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 page. Do you see the top sentence that says 3 "concerns about abuse, addiction and diversion 4 should not prevent the proper management of 5 pain"? 6 A. Yes. 7 Q. The next sentence states, "The 8 development of addiction to opioid analgesics in 9 properly managed patients with pain has been 10 reported to be rare. However, data are not 11 available to establish the true incidence of 12 addiction in chronic pain patients." 13 A. How may I help you? 14 Q. Do you agree that the data are not 15 available to establish the true incidence of 16 addiction in chronic pain patients? 17 A. I agree with that statement as 18 written, but it's subject to interpretation. 19 Only insofar as true means is it 7 percent, 20 8 percent, a 10th of a percent, 1 in 100,000? 21 Whether it's common or rare, whether it can be 22 measured using clinical problem methodology or 23 survey methodology or pharmacovigilance 24 methodology I think has been answered and I think 25 it is an uncommon or rare event. I still think</p>	<p style="text-align: right;">203</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 through the service. And we established a 3 definition of what we thought addiction or abuse 4 was, sometimes very parochial, sometimes very 5 good. And we say in this case series we saw X. 6 In this context we know that the rate 7 of alcoholism and drug dependence in the general 8 population is somewhere between 5 and 15 percent, 9 depending on age, where you are and whether 10 you're looking at a medical population or not. 11 The people who study alcoholism in 12 IAAA are very concerned about overrepresentation 13 of alcoholics in populated locations. So I don't 14 know what one can infer about the general 15 population from these case series. They don't 16 mean nothing, but they have an uncertainty about 17 them, and they have some distortions of the data 18 about them in exactly the same way that you could 19 have distortions if you looked only at single 20 dose anesthesia study. 21 So when I say that there's 22 controversies about the data, there's 23 controversies about the strength of the data, 24 there's a lot of evidence that the rate of 25 iatrogenic addiction cannot be large, or it would</p>
<p style="text-align: right;">201</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 it's an uncommon or rare event. 3 Q. Does it appear that the FDA disagrees 4 with you? They rejected the language about it 5 being as uncommon as in the general population. 6 A. I don't even know what that language 7 means. 8 Q. And they rejected the language that 9 it's rare to instead come up with it's reported 10 to be rare or has been reported rarely or 11 whatever the language is now. 12 A. I don't know what the FDA believes. 13 I don't work for it anymore, I don't work there 14 anymore. What I know is that the company went 15 back and forth multiple times about this label, 16 and this is language that both could live with. 17 That's literally all I know. If 18 they've accepted it as language that they could 19 live with and if Purdue accepted it as language 20 that they could live with. 21 Q. You mentioned before when we 22 discussed that there's a real debate with regards 23 to the instance rate of addiction with chronic 24 pain patients taking opioids, correct? 25 A. I've thought about that because I had</p>	<p style="text-align: right;">204</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 have been picked up on a number of 3 population-based survey instruments looking for 4 how old are people when they start drug abuse, 5 how many people are using drug abuse, what kind 6 of conditions do people have when they have drug 7 abuse. If it was large, it would begin to light 8 up the drug abuse screens and the drug abuse 9 surveys. You get between large and rare and 10 there's discussion over what that number is. 11 Q. You would agree that a risk to taking 12 a drug does not have to be large to be serious, 13 correct? 14 A. Some risks that are very small are 15 very serious. 16 Q. Do you know if the FDA has forced 17 other drug companies to add boxed warnings 18 regarding abuse on their labels for opioids? 19 MR. STRAUBER: I object to the form 20 of the question. 21 A. I don't know. I don't know. 22 Q. Do you know if Purdue has added to 23 the MS Contin label a boxed warning about abuse 24 on its label? 25 A. I do not know. I know there has been</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">205</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 work going forward on changing the MS Contin 3 label, as there's always maintenance work done on 4 those labels and on the safety sheets. But I 5 don't know if it's been submitted yet and I don't 6 know if it's been reviewed yet. 7 Q. Are you aware of any Purdue 8 promotional pieces that stated that while the 9 rate of addiction to opioids has been reported to 10 be rare, we don't know the data? The incidence 11 data for sure? Are you aware of anything like 12 that? 13 MR. STRAUBER: Objection to the form 14 of the question. You can answer. 15 A. I'm not in the review loop for 16 promotional materials. That's risk management 17 and drug safety. So I don't know whether there 18 are or aren't. 19 Q. If you did see promotional pieces 20 done by Purdue which indicated that less than 1 21 percent of pain patients taking their opioids 22 become addicted to their medication, would you 23 have alerted Purdue that you're not sure that 24 that number is in fact established? 25 A. I'm relatively comfortable that that</p>	<p style="text-align: right;">208</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 to be higher, I would expect the centers to tell 3 us. 4 Q. Well, you had a study by Dr. Chabal 5 where he reported his center found I believe a 6 rate of about 27 percent in Washington, correct? 7 A. I'd have to review that. Do you have 8 it here? 9 Q. Actually, I don't. Do you recall 10 Dr. Robins' studies where he found abuse in his 11 center? 12 A. I recall — what I recall at this 13 time right here is that individuals who selected 14 their patients in their population sometimes 15 selecting them because they were concerned about 16 them reporting a case series. But I don't know 17 the numbers associated with everybody's case 18 series. 19 With all of these issues, greater 20 specificity is often good until it gets in the 21 way of communicating at all. Partially the 22 problem I have, and I continue to have it, is it 23 kind of misses the boat because if I have two 24 things that I worry about, one is the risk that 25 somebody with chemical dependency will abuse the</p>
<p style="text-align: right;">206</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 number less than 1 percent is probably a good 3 number. 4 Q. Based upon? 5 A. The registry study. 6 Q. Okay, what if you saw this in 1998, 7 before the registry study had been completed? 8 A. At that time the guidances from 9 authoritative bodies that I should trust would 10 have said that it was very rare or rare. And 11 less than 1 percent, that's a fairly conservative 12 number based on that. So I'm not sure I would 13 have alerted anybody that I thought that this was 14 a bad number. I might have asked let's talk 15 about how we would justify this number, but less 16 than 1 percent is not a bad number. 17 Q. Well, doesn't — as we discussed, 18 doesn't it depend somewhat on the selected 19 patient groups? 20 A. I'd have to know more about the promo 21 piece and who it was going out to. There's sort 22 of three things that — I don't know, as I said, 23 I'm not an expert in drug marketing. And I'll 24 leave it at that. 25 Q. What if it's going out to patients?</p>	<p style="text-align: right;">209</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 drug, and the risk that somebody without chemical 3 dependency will develop chemical dependency, the 4 risk of abuse of the drug by somebody with 5 chemical dependency is probably much greater than 6 the risk that somebody will develop a new case of 7 iatrogenic addiction. 8 Q. So in those instances, if not a 9 contraindication, should there have been a 10 specific warning to patients with a past history 11 of chemical dependence? 12 A. I don't know. That's why I continue 13 to go to conferences and read reports on what to 14 do with patients with chemical dependency. There 15 are 25 million of them in America. They're 10 16 percent of the population. They're getting older 17 and I'm really reluctant to make them therapeutic 18 orphans. 19 The AHCPR made very aggressive 20 statements don't avoid using opioids in this 21 population, don't exclusively use non-opioid 22 medications in this population. Now, has their 23 risk increased? I think so. But what is not 24 clear is how to find them well and how to manage 25 them well.</p>
<p style="text-align: right;">207</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. In what context? 3 Q. In the context of a videotape a 4 doctor could show them in their office where a 5 narrator would say in fact, less than 1 percent 6 of pain patients taking their opioids become 7 addicted to their medication. 8 A. And your question again? 9 Q. Well, would you have found that to be 10 troubling and something you would have alerted 11 Purdue as I'm not sure that that number is 12 appropriate in that context? 13 A. Based on the AHCPR guidelines and 14 NIDA's stuff, I'm not sure I would have found 15 that troubling. If it had been 1 in 10,000 or 1 16 in 100,000, then I might begin to wonder. 17 Q. Suppose this videotape is played at 18 multidisciplinary pain management centers where 19 you know there's been studies reporting as high 20 as 28 percent of the patients abusing the drug, 21 would that affect your answer? 22 MR. STRAUBER: I object to the form 23 of that question. 24 A. If it were played at centers that had 25 already studied their rates and knew their rates</p>	<p style="text-align: right;">210</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. I think my question wasn't — I said 3 putting aside a contraindication, should there be 4 at least a separate warning to these particular 5 persons that they may be at a higher risk to 6 develop addiction based upon their past history? 7 I'm not talking about orphanizing them. I'm just 8 saying giving them a specific warning to them and 9 their prescribers that they may be a subset group 10 of chronic pain patients who are at higher risk. 11 A. I'd like to figure out how. I'm not 12 saying that it's impossible. I'm not saying — 13 this is a group that I've advocated for for 20 14 years. They're a group of people that are 15 treated very badly by the healthcare system in 16 general, that have lots of trouble getting access 17 to good treatment. 18 And where influential government 19 agencies have told me be real careful about 20 marginalizing them, be real careful about doing 21 anything that might make getting treatment to 22 them harder. 23 Q. I only have one copy of this. 24 (Wright Exhibit 25 for 25 identification, Call Report, document bearing</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">211</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Bates production number 7912511060.) 3 Q. Based upon that, Dr. Wright, I'm 4 going to ask you to read -- well, first of all, 5 have you ever seen this before? 6 A. No. 7 Q. Have you ever seen a pharmaceutical 8 sales representative's call report before? 9 A. No. 10 Q. Do you know Russell Johnson? 11 A. No. 12 Q. Do you know a doctor named Charlotte 13 Sitler de Flumere? 14 A. No. 15 Q. Can you read in the notes/memos 16 section what's stated? 17 A. Yes. "Dr. De Flumere asked about 18 dosing and conversion. Left conversion guide. 19 She was impressed with back pain clinical and had 20 to be reminded of the two to morphine ratio. She 21 is coming around and continue to help her with 22 titration. She did say she does dose Q8 hour to 23 some patients with addiction problems and feel 24 they have to take pills. Discussed asymmetrical 25 dosing."</p>	<p style="text-align: right;">214</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 and what dose of drug are you giving Q8. 3 (Wright Exhibit 26 for 4 identification, Call Report, document bearing 5 Bates production number 7912533279.) 6 A. This is another -- appears to be 7 another contact report for Dr. Sitler de Flumere 8 in the Memphis Psychiatric Group. 9 Q. Could you read the notes/memo 10 section. 11 A. Staples, Burt. Notes/memo. "She 12 does go TID and has one QID patient. It's due to 13 addicts having to take pills for the mind game." 14 Q. Does that give you any greater 15 insight as to what the doctor may be doing? 16 A. Dr. De Flumere might be titrating 17 patients with pain and addiction. 18 Q. And giving them pills for the mind 19 game, as Mr. Staples interprets it? 20 A. Well, that's how the sales rep put 21 it. Before I talk about what I thought, I'd need 22 to talk to the doctor and ask her what she thinks 23 she's doing. These are sales reps. 24 Q. Right. Now, in treating pain 25 patients, do you recall -- who had addiction</p>
<p style="text-align: right;">212</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Now, the section of that call report 3 where it says dosing Q8H, it appears to say that 4 the doctor doses OxyContin Q8H for the addicts 5 because they feel they have to take that many 6 pills. Am I -- 7 A. No, it says she does dose Q8H for 8 some patients with addiction problems and feel 9 they have to take pills. 10 Q. You've treated pain patients, correct 11 who are -- who also have substance abuse 12 problems? 13 A. Yes. 14 Q. Do you recall giving them an 15 additional daily dose of medication because they 16 feel they needed to take more pills? 17 A. It's a hard question to answer 18 because every patient where I'm most familiar 19 with this is methadone maintenance patients. And 20 methadone maintenance patient who are the group 21 that would have pain and addiction problems 22 continuously negotiate about their methadone 23 dose. They continuously negotiate about how much 24 drug they're getting and how long it's lasting 25 and how they feel about it and what they want and</p>	<p style="text-align: right;">215</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 problems, you discussed methadone. What about 3 OxyContin, had you ever given any pain patients 4 who also had addiction problems OxyContin? 5 A. No. I was not in the pain treatment 6 business. I was out of the pain treatment 7 business and into the government regulation 8 business before OxyContin came on the market. 9 Q. Was there any controlled release 10 opioids back then? 11 A. Pretty much MS Contin. 12 Q. And did you ever dose MS Contin out 13 because the addicts sort of -- because the 14 addicts thought they needed more pills? 15 A. No. But I negotiate -- but clinic 16 was an exercise in negotiating methadone dose. 17 Forever and a day. Sometimes overtly, and that 18 was relatively easy, and sometimes through a 19 litany of symptoms and concerns. 20 Q. Dr. Wright, do you know if OxyContin 21 creates less chances for addiction than immediate 22 release opioids? 23 A. I don't know. I do know that there's 24 less cycles of drug use with a BID drug or a QID 25 drug or a once-a-week drug than with a Q4 to 6</p>
<p style="text-align: right;">213</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 what's coming up and what's not coming up. 3 I don't know what to do with this 4 call report because it tells me a little too much 5 and a little too little. 6 Q. Let's look at this one. 7 MR. STRAUBER: I'd just like to note 8 because you did not give me a copy of this 9 exhibit, so I didn't have a chance to look at 10 it. It doesn't say anything about taking more 11 pills. 12 MR. McNAMARA: No, it says Q8H, 13 correct? 14 MR. STRAUBER: It does say Q8. But 15 it doesn't say anything about more pills or 16 medicine. 17 Q. Doctor, if you're going to take Q8H 18 you're -- if you take OxyContin dosed Q8H, you're 19 going to take more number of OxyContin tablets 20 than if you were taking it Q12H, correct? 21 MR. STRAUBER: Your question is 22 confined to number of tablets? 23 MR. McNAMARA: Yes. 24 A. You take more tablets but the 25 question is what dose of drug are you giving TID</p>	<p style="text-align: right;">216</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 hours drug. There are some theories of addiction 3 that part of the process is that over and over 4 and over again cycle of drug lag, drug loss, drug 5 gain, drug absence, drug effect. We still don't 6 know. 7 Q. It's just not clear one way or 8 another how that might actually potentiate 9 addiction? 10 A. There are people who believe 11 strongly. I have to articulate that respectable 12 people believe strongly that there's a condition 13 effect associated with how often somebody goes 14 through the drug lag/drug loss cycle. I know 15 some scientists at NIDA have -- 16 Q. If you're taking a controlled release 17 product and you need to take rescue twice a day, 18 you're going to have to condition the BID product 19 in that lag that you're discussing, correct? 20 A. Yes, but it depends on how much 21 rescue they're taking and what the relative 22 amounts are. The usual recommendations for 23 rescue is that the dose of rescue is much smaller 24 than the dose of maintenance drug. And it forms 25 a bump on the PK profile, not a peak that</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">217</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 dominates it. 3 Q. And the rescue medication that one 4 would take for OxyContin would normally be 5 another opioid analgesic, correct? In order to 6 serve as a rescue medication. 7 A. What kind of dose range are you 8 talking about with OxyContin? 9 Q. Let's -- 10 A. I mean, if somebody's taking low 11 doses of OxyContin, you might get by with a 12 non-opioid rescue. If they're taking 400 or 800 13 a day, you need a rescue. 14 Q. Would you say there's evidence that 15 OxyContin's virtually nonaddictive? 16 A. No. 17 Q. Would you say that's an inaccurate 18 statement to say OxyContin's virtually 19 nonaddictive? 20 A. Yes. 21 Q. And if personnel at Purdue were 22 saying that to doctors, they would be acting 23 contrary to what the labeling says? 24 A. They would certainly be in violation 25 of our policies. I know of nothing in the label</p>	<p style="text-align: right;">220</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 that sentence because it's a nonmedical 3 sentence. It says I want to give you pain relief 4 without addicting you to an opioid. Well, we've 5 already had several hours discussion over the 6 fact that when we treat a pain patient properly 7 with opioids, we're not addicting them to an 8 opioid. Addiction is uncommon. 9 Q. I understand that. However, in this 10 particular training and development memo sent out 11 to the entire field force, they are rightly or 12 wrongly summarizing what is the message that 13 physicians may want to hear, correct? 14 A. No. 15 Q. You don't think that's what's going 16 on here? 17 A. I don't think that's what's going 18 on. 19 Q. You don't think the point of trying 20 to plan an effective presentation is geared 21 towards a physician so that they will purchase 22 more product? Or prescribe more product. 23 A. This presentation appears to be aimed 24 at the sales force to talk to them about how to 25 present an effective presentation.</p>
<p style="text-align: right;">218</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 that says virtually nonaddictive. 3 (Wright Exhibit 27 for 4 identification, document bearing Bates production 5 number 9100939555 through 9100939557.) 6 A. How may I help you? 7 Q. Have you ever seen this before? 8 A. No. 9 Q. It appears to be a memo from training 10 and development to the entire sales -- entire 11 field force of Purdue, correct? 12 A. Yes. 13 Q. It appears to be dated November 4, 14 1996. 15 A. Yes. 16 Q. It says "subject, planning an 17 effective presentation." 18 A. Yes. 19 Q. And it looks like the title of it is 20 "if I only had a brain." 21 A. That's correct. 22 Q. Apparently there's some discussion 23 about the Wizard of Oz. I'm going to skip ahead 24 to where it says "As doctors' scheduling demands 25 are getting tighter, you need to more effectively</p>	<p style="text-align: right;">221</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Right. 3 A. I don't know who wrote it. I don't 4 know if they even had knowledge of the 5 pharmaceutical industry. I mean, I just don't 6 know. They could have. But if this was a 7 psychologist or a training specialist or somebody 8 who had been hired by the company, I truly don't 9 know, to say okay, here's what we want you to 10 do. Put together a presentation for the entire 11 sales force to talk about how to make an 12 effective presentation. They're going to try to 13 use examples that reach to the experience of the 14 person they're trying to teach. I'm a teacher, I 15 do the same thing. 16 But I don't know much about lawyers 17 so I can't help you there. But if -- so I've 18 written training documents in other fields where 19 I've said things that were inappropriate about 20 how safety programs work or how oversight works 21 or how you would run a program because I really 22 was talking out of my area just trying to say 23 okay, find the message that they want, find the 24 target that they want and try to hit it. That's 25 all. I don't know that this means --</p>
<p style="text-align: right;">219</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 plan your presentations." Do you see that? 3 A. Yes. 4 Q. It says, "How can we build an 5 effective presentation." And looking at number 6 2, it says, "Know your listener and his/her 7 needs/wants. Gather facts about your customer 8 prior to the call. Firing at a target in the 9 dark is not very promising. As you prepare to 10 fire a message, you need to know where to aim and 11 what you want to hit." 12 And then it says in quotes, "The 13 physician wants pain relief for these patients 14 without addicting them to an opioid." 15 Does that sound like a fairly common 16 desire of most prescribers to pain patients? 17 A. Could you repeat that question, 18 please. 19 Q. Why don't I rephrase it. 20 Isn't that what you want as a 21 physician, pain relief for your patient without 22 addicting them to an opioid? 23 A. No, that's not what I want. I'd like 24 pain relief at the minimum risk possible for the 25 patient. I have problems with the second part of</p>	<p style="text-align: right;">222</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Okay. So you don't know what this 3 person's background was, but as far as I believe 4 what you said, is that statement about without 5 addicting them to an opioid, would you say that's 6 medically inaccurate or scientifically 7 inaccurate? 8 A. I have problems with the subjunctive 9 clause, the physician wants pain relief for these 10 patients without addicting them to an opioid. 11 Don't get me wrong, physicians want opioid level 12 relief without risk of addiction. They wanted 13 that for years. But this is the kind of language 14 that is exactly the kind of morphine resistance 15 language, lay language that drives the pain 16 treatment people crazy. 17 A patient has severe pain, mucositis 18 following radiation therapy is a good example for 19 me because I've seen it and it's just awful. And 20 you have a patient who has it, it takes them half 21 an hour to swallow a cling peach. You know that 22 you could relieve their pain and they say I don't 23 want to be -- 24 Q. I think we're getting a little far 25 away from what the question was.</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">223</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Please forgive me. 3 Q. Looking ahead, number 3, do you see 4 where it says, "Have a well-formulated approach. 5 A single thought or sentence that will best lead 6 you to your objective." 7 And in quotes it says "according to 8 the FDA stated in the OxyContin package insert, 9 drug addiction is characterized by a 10 preoccupation with the procurement, hoarding and 11 abuse of drugs for nonmedicinal purposes. Delayed 12 absorption as provided by OxyContin tablets is 13 believed to reduce the abuse liability of the 14 drug." 15 Do you see how those two sentences 16 are put together? 17 A. Yes. 18 Q. It talks about "develop the hook." 19 You mentioned some description of what that would 20 be. 21 And moving down where it says "know 22 the subject. This is the what, who, where, when, 23 why, how that explains or reinforces your 24 objective. The subject must relate to your 25 listener and correspond to your approach." It</p>	<p style="text-align: right;">226</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 around-the-clock opioids are appropriate for more 3 than a few days. 4 Q. You mentioned this was -- this didn't 5 strike you as written by a medical person, 6 correct? 7 A. What I said was I don't know who 8 wrote this and I don't know the reason they wrote 9 it. 10 Q. Okay. 11 A. If this was written to provide 12 messages that you should use in selling 13 OxyContin, then I would expect to have been 14 through the whatever the color the folder is 15 clearance process, and I don't think this would 16 have cleared. 17 If this is a presentation put 18 together by an expert in selling, and I don't 19 know which it is, then it may very well be put 20 together by someone who does not know what the 21 restrictions on promotion are. 22 Q. Do you know who Dennis Merlo is? 23 A. No. 24 Q. Have you ever met him? 25 A. No.</p>
<p style="text-align: right;">224</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 states "OxyContin can provide pain relief to your 3 patients allowing them to sleep through the night 4 while potentially creating less chances for 5 addiction than immediate release opioids." 6 Do you see that? 7 A. Yes. 8 Q. That language is not in the OxyContin 9 approved label, correct, that OxyContin 10 potentially creates less chances for addiction 11 than immediate release opioids? 12 A. That's correct. 13 Q. While you pointed out that it's 14 subject of some folks who have examined this 15 issue about controlled release drugs and lag time 16 issues and whatnot, it is far from accepted by 17 all addictionologists, correct? 18 MR. STRAUBER: I object to the form 19 of the question. You can answer. 20 A. I don't understand it. 21 MR. STRAUBER: Why don't you repeat 22 it. 23 Q. I'll withdraw the question. 24 While there have been some -- you 25 mentioned before that there were some</p>	<p style="text-align: right;">227</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. You said this probably wouldn't have 3 cleared I guess whatever folder you're referring 4 to, this particular memo. Why wouldn't it have 5 cleared? 6 A. For the reasons that you discussed. 7 When a promo piece is going to be used for 8 promotion, not necessarily for training on how to 9 sell, then it would have to go through and the 10 medical department and the legal department would 11 look at it and say are each of these messages 12 justified by the package insert, do they 13 represent fair balance on the risks and benefits 14 of the drug, is this okay, is this wise. And 15 this is a fairly positive and fairly unbalanced 16 presentation of OxyContin. 17 Q. Now, do you know if training 18 materials would have to go through the same 19 process? 20 A. I truly don't know. 21 (Recess taken.) 22 (Wright Exhibit 28 for 23 identification, document bearing Bates production 24 number 9101803798 through 9101803799 and 25 9101803800 through 9101803808.)</p>
<p style="text-align: right;">225</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 addictionologists who support the notion that -- 3 A. Dosage form matters. 4 Q. Yes, that dosage form matters but 5 also that this particular point that a controlled 6 release potentially creates less chances of 7 addiction than immediate release opioid. 8 A. Yes. 9 Q. Is that a majority of 10 addictionologists? 11 A. I don't know. I don't think so. 12 Q. Looking down further, number 6, under 13 "ask for a specific action," in quotes is the 14 sentence, "What two OA patients can you think of 15 right now who could benefit from OxyContin 16 tablets? Can you place a prescription for 17 OxyContin in their charts right now?" 18 I think we discussed before OxyContin 19 would not be appropriate for all osteoarthritis 20 patients, correct? 21 A. That's correct. 22 Q. It would only be within that 23 specified indication where I think at this time 24 was around-the-clock for more than a few days. 25 A. Moderate to severe pain where</p>	<p style="text-align: right;">228</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 BY MR. McNAMARA: 3 Q. Can you look at page 3802. Would you 4 agree with me first that these are meeting 5 minutes for Purdue and -- Purdue Pharma L.P. and 6 the FDA for a meeting that apparently took place 7 on June 14 of 2001? 8 A. This is a regulatory contact report, 9 or appears to be, that was sent through Purdue's 10 e-mail to multiple recipients describing what 11 Purdue thought happened in an FDA teleconference 12 meeting. 13 Q. In fact, you were one of the 14 recipients for Joyce Mulligan. 15 A. Yes. 16 Q. Do you remember seeing these 17 minutes? 18 A. At the time I think. 19 Q. Directing you to 3802, starting with 20 the paragraph "Dr. McCormick began the labeling 21 discussion by expressing the agency's concern 22 about the clinical trials section. The trials 23 currently in the label are pain models in 24 artificial settings with regard to the 25 appropriate use of the product. The agency's</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">229</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 position is that neither the osteoarthritis nor 3 the single dose post-operative pain study 4 provided adequate data for a claim in the 5 label." 6 I think we touched upon this earlier, 7 correct? 8 A. Yes. 9 Q. That you have to find pain models to 10 test the drug where you'd have patients who are 11 willing to participate in order to be ethical to 12 do so. But at the same time you don't want to 13 create an impression that a drug, if tested for 14 this pain group, is appropriate for all patients 15 within that pain group. 16 A. Or within that diagnostic category. 17 Q. Right -- 18 A. In addition, there was clearly 19 final -- there appears to have been resolution 20 since 1992/1993 when these studies were -- 21 OxyContin studies were planned on how to address 22 the IR/CR switch. And this is language more 23 appropriate to please do a full development 24 plan. 25 Q. Dr. McCormick stated here, "The</p>	<p style="text-align: right;">232</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. How may I help you, sir? 3 Q. This appears to be another call 4 report, correct? 5 A. Correct. 6 Q. This one with a sales rep named 7 Steven Ochu and a doctor named Valencia Martin. 8 A. Yes. 9 Q. Can I point you to where it says 10 "OxyContin, spend a few minutes, really listened 11 to what I had to say. Talk about the right 12 patients and less tablets and less abuse." 13 A. Yes. 14 Q. It appears to indicate there was a 15 discussion about OxyContin having less abuse 16 potential. 17 A. One would infer. 18 Q. Now, the label -- the improved 19 labeling, and this is 1999, as we discussed, it 20 didn't actually say that OxyContin had less abuse 21 potential than controlled release -- than 22 immediate release opioids, correct? 23 A. It said that controlled release 24 opioids like OxyContin were believed to have 25 lower abuse potential.</p>
<p style="text-align: right;">230</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 studies as they were formed and described in the 3 label are in contradiction to the indications we 4 have inserted in the label." Do you see that? 5 It's the next sentence after the single dose -- 6 A. Yes. As I read it, it says she wants 7 placebo controlled studies in the intended 8 population. 9 Q. And the intended population I think 10 she -- 11 A. Moderate to severe pain requiring 12 around-the-clock opioids for more than a few 13 days. 14 Q. And what she says here is the 15 intended population, and that the studies which 16 enrolled patients -- was that referring to the 17 studies talked about in the clinical studies 18 section of the OxyContin label. "Enrolled 19 patients based solely on their disease state 20 rather than their pain status, and their use of 21 and failure of other non-opioid medications, send 22 a misleading message regarding the appropriate 23 use of the drug." 24 A. And continues, an agency concern is 25 the studies in the label will allow the sponsor</p>	<p style="text-align: right;">233</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. And to this day it's still not been 3 proven that controlled release oxycodone, 4 OxyContin has a less abuse potential than 5 immediate release OxyContin, correct? 6 MR. STRAUBER: Object to the form of 7 the question. Don't know what you mean by 8 "proven." 9 A. I think that it's -- we can go 10 further than that, and that is that in -- again, 11 it depends whether you mean for patients or 12 abusers. I think there's some evidence that in 13 some parts of the country OxyContin has become 14 specifically targeted as a drug of abuse. 15 Q. So then the whole paradigm would kind 16 of fall apart because it's been targeted by 17 abusers. But with regards to pain patients. 18 A. With regards to pain patients, what 19 the label says is what the label says. Drugs of 20 this class may have a reduced risk, and the 21 question is what did the rep really say and did 22 they get sloppy in their documentation. I just 23 don't know. 24 (Wright Exhibit 30 for 25 identification, Call Report, document bearing</p>
<p style="text-align: right;">231</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 to market the drug in the ways that may be 3 misleading. 4 This is the same discussion that we 5 had earlier, that I had earlier. That's the 6 perennial problem of pain model, easy to analyze, 7 well-controlled, highly predictive, very 8 comfortable, not terribly predictive of real 9 life. In real life you don't let a patient 10 develop moderate to severe pain post operatively 11 before you give him some pain meds. But that's 12 our post op pain model. And this dilemma is 13 still unsolved. 14 Q. You said we talked about earlier, and 15 we did, we talked about earlier that one of the 16 things to avoid though of course was marketing 17 based upon disease or pain syndromes as opposed 18 to pain intensity, that being what's controlled 19 by the indication. 20 A. Marketing in a way that would leave 21 the prescriber to select inappropriate patients. 22 That's always a concern. 23 (Wright Exhibit 29 for 24 identification, Call Report, document bearing 25 Bates production number 7911443057.)</p>	<p style="text-align: right;">234</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Bates production number 7911450215.) 3 A. How may I help you on this one? 4 Q. This appears to be another call 5 report, correct? 6 A. Yes. 7 Q. From Mr. Ochu with regards to 8 Dr. Wheeler. 9 A. Yes, sir. 10 Q. In the notes/memo section it says "O, 11 where can I help you with pain control. H, look 12 at my name tag, kind of to see if I was with the 13 state board. I, ment long acting. I, why Rx a 14 short-acting if you have a long-acting. H, ask 15 how to dose again and was it available in the 16 hospital. A reminder on Senokat." 17 It appears that Mr. Ochu was 18 memorializing a discussion he had with 19 Dr. Wheeler. 20 A. I'm having a hard time. This is a 21 little telegraphic for me. 22 Q. Well, O being either Ochu, which 23 would seem to follow, where can I help you with 24 pain control. H, meaning he or Harold -- 25 A. "Looked at my name tag to see if I</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">235</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 was with the state board." 3 Q. And then "I," I guess once again 4 referring to Mr. Ochu as the sales rep who made 5 this, "ment long-acting. I, why Rx a 6 short-acting if you have a long-acting." 7 Rx is sort of a shorthand for 8 prescription, right? 9 A. Usually. 10 Q. So it appears he was asking 11 Dr. Wheeler why prescribe a short-acting if you 12 have a long-acting, correct? 13 A. I guess. This is really telegraphic 14 and badly written note. How may I help you? 15 Q. Well, you know of instances of course 16 why it would be more appropriate to prescribe a 17 short-acting opioid and then a long-acting opioid 18 like OxyContin, correct? 19 A. Certainly. 20 (Wright Exhibit 31 for 21 identification, Call Report, document bearing 22 Bates production number 7911450927.) 23 A. This appears to be another one of 24 Steven Ochu's call notes. 25 Q. And in this one he apparently says</p>	<p style="text-align: right;">238</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 for use? 3 A. I'm in clinical research. I don't 4 interface with sales. 5 Q. Well, do you know if there's a 6 mechanism? 7 A. I don't know. 8 Q. Fair enough. 9 (Wright Exhibit 32 for 10 identification, Call Report, document bearing 11 Bates production number 7911452553.) 12 A. This is Steven Ochu again. 13 Q. It appears so. It's June 22, 2000. 14 A. 6/22/2000. 15 Q. "O, by phone." Is that the one you 16 have? 17 A. Yes. 18 Q. "Dr. Wheeler, I wanted to provide you 19 a benefit that short-acting hydro can't do. 20 Showed him cess of therapy and explained why." 21 Any idea what that is? 22 A. No. I genuinely don't understand 23 that at all. 24 (Wright Exhibit 33 for 25 identification, Call Report, document bearing</p>
<p style="text-align: right;">236</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 "O, show OA picture. How do you treat this 3 patient. H, I guess a short-acting, why not 4 OxyContin, less tabs and better pain control. 5 Okay he said as he was walking away. Ment 6 UniphyI how to dose." 7 Does this not appear that Mr. Ochu 8 was once again suggesting to Dr. Wheeler why not 9 use OxyContin instead of a short-acting product? 10 A. It's a reasonable inference. 11 Q. Less tabs and better pain control. 12 Again, there would be instances when, especially 13 with osteoarthritis, when a PRN or a short-acting 14 opioid would be more appropriate than OxyContin, 15 correct? 16 A. There would be instances with 17 osteoarthritis where a non-opioid would be more 18 appropriate therapy. I don't know what picture 19 he showed and I don't know what the context was. 20 Q. But there's no -- you don't see any 21 references in the call reports we looked at to 22 moderate to severe pain where an around-the-clock 23 opioid is required for more than a few days? 24 A. Not in the three or four that you've 25 selected.</p>	<p style="text-align: right;">239</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Bates production number 7911452549.) 3 A. Steven Ochu again. 4 Q. This is also dated June 22nd of 2000, 5 and this is with regards to Dr. Valencia Martin. 6 And in the notes section it states "O, got her 7 attention. When you Rx a short-acting pain med, 8 why not use a long-acting and went directly to 9 cessation of therapy. You can't do this with 10 hydro and ment BD you doc the same as the short 11 act." 12 It appears at least in the first 13 clause that, once again, it's the suggestion why 14 not use a long-acting instead of a short-acting. 15 Correct? 16 A. Well, certainly the phrase why not 17 use a long-acting -- "when you Rx a short-acting 18 med, why did not use a long-acting." I don't 19 know what "went directly to cess of therapy" 20 means. "You can't do this with hydro," I don't 21 know what that means. The same -- "you doc the 22 same" -- this one's -- I don't know. 23 Q. But it appears that once again it's a 24 suggestion of use long-acting OxyContin instead 25 of a short-acting opioid, correct?</p>
<p style="text-align: right;">237</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. Do you know if anyone from medical 3 affairs ever looks at the call reports of sales 4 reps to see if they're discussing all the medical 5 issues with regards to the drugs in their 6 discussions with the doctors? 7 MR. STRAUBER: I object to the form 8 of the question. You seem to be suggesting that 9 the package insert has to be replicated in the 10 call reports. 11 MR. McNAMARA: Actually, Don, I'd 12 appreciate it if you'd just object to form. 13 MR. STRAUBER: I have done that 14 throughout. Things are getting a bit silly. 15 MR. McNAMARA: Once again, I'd 16 request that you just object to form as required 17 under the rule. 18 A. Would you repeat the question, I lost 19 it in the objection. 20 Q. Sure. Let me try to rephrase it. 21 Do you know if there's any mechanism 22 at Purdue where persons in your department might 23 look over the call reports of sales staff and ask 24 them, well, did you guys address issues that are 25 involved with the labeling such as the indication</p>	<p style="text-align: right;">240</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 A. Yes. 3 Q. Without regards perhaps to -- well, 4 at least through this call report, there's no 5 mention of what the underlying pain was, right? 6 A. Wait a minute. I've agreed with you 7 so far because it's been tough to figure out what 8 was going on here. I guess I'm not completely 9 convinced that he's talking -- when they're 10 talking about this they're talking about 11 initiation of opioid therapy. 12 Q. Okay. 13 A. That's all. I mean, it may be that 14 he's sitting here saying when you're prescribing 15 the short-acting opioids for appropriate 16 patients, why not prescribe a long-acting. But I 17 can't tell from the memo. 18 Q. It also can't -- you can't determine 19 whether or not he's saying whenever you use 20 short-acting, why not just use long-acting. 21 A. You could infer that as well. I 22 don't know which it is. 23 Q. I believe I'm going to have some 24 questions for you once and if I get a chance to 25 look at the reports you talked about with regards</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">241</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 to I believe OC 970302, which would be the 3 three-year registry. 4 MR. STRAUBER: Is that a question? 5 Q. Did I properly identify the 6 three-year registry? 7 A. I don't know the number by heart. 8 Q. In any event, I may have some 9 questions of you on that. I don't have that 10 study before me right now so at this point I'm 11 going to turn it over to Don. 12 A. Be aware that I was not the physician 13 running that study and I did not write the 14 report. 15 Q. Thank you. 16 MR. STRAUBER: Let's take a 17 five-minute break. I'd like to look at my 18 notes. I think I have a few questions but it 19 will only be short, in any event. 20 (Recess taken.) 21 EXAMINATION BY MR. STRAUBER: 22 Q. Dr. Wright, I just have a few 23 questions that I'd like to ask you. 24 Do you recall the questions about the 25 statement of the package insert that says</p>	<p style="text-align: right;">244</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 tolerance and physical dependence in abuse and 3 addictions. Warnings that patients with existing 4 abuse would seek out the drug and that that was 5 more common than iatrogenic addiction. A 6 complete descriptions of withdrawal syndromes, 7 detoxification schedules, management of 8 detoxification. There's a lot in that package 9 insert about drug addiction. 10 Q. And of course it calls out the fact 11 that the drug is a Schedule II. 12 A. Yes. 13 Q. And it warns the physician to know 14 their patients, to take a history. 15 A. To individualize the dose to the 16 patient's presentation and to select the patients 17 who need this medication. 18 Q. And it warns the physician that 19 relapse is common among drug addicts? 20 A. Yes, it does. 21 Q. Let me read a sentence to you that 22 appeared in Exhibit 27 and simply tell me whether 23 it's true or false. "OxyContin can provide pain 24 relief to your patients, allowing them to sleep 25 through the night while potentially creating less</p>
<p style="text-align: right;">242</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 iatrogenic addiction to opioids legitimately used 3 in the management of pain is very rare? 4 A. Yes, I remember that. 5 Q. Do you believe that statement in the 6 package insert is true? 7 A. Yes, I believe that. 8 Q. Do you believe that the statement 9 "iatrogenic addiction to opioids legitimately 10 used in the management of pain is very rare" is 11 true with regard to patients who are treated in 12 pain clinics? 13 A. Iatrogenic addiction? 14 Q. Let me repeat the question. Do you 15 believe that the statement "iatrogenic addiction 16 to opioids legitimately used in the management of 17 pain is very rare" is true with respect to 18 patients who are treated for pain? 19 A. Yes, I do. 20 Q. Do you recall saying in response to a 21 question that addiction rates can be higher in 22 patients who have pain that is difficult to 23 treat? 24 A. Yes, I do. 25 Q. When you referred to patients who</p>	<p style="text-align: right;">245</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 chances for addiction than immediate release 3 opioids." True or false? 4 A. True. 5 MR. STRAUBER: I have no other 6 questions. 7 EXAMINATION CONTINUED BY MR. McNAMARA: 8 Q. Would you agree, true or false, with 9 that statement that your attorney just read was 10 not included in the package insert for 11 OxyContin? 12 A. The statement was not included in the 13 package insert for OxyContin. 14 Q. And that no where in the package 15 insert for OxyContin was the statement that 16 OxyContin may potentially create less chances for 17 addiction to opioids? 18 A. That statement was not in the package 19 insert. 20 Q. So when you're saying it's true, 21 you're saying it's true based upon your own 22 personal beliefs? 23 A. Potential -- I'm saying it's true 24 because potentially, because of the adjective 25 involved, "potentially" is an adjective that is</p>
<p style="text-align: right;">243</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 have pain that is difficult to treat, what types 3 of patients were you referring to? 4 A. I believe I was referring to patients 5 who had preexisting addiction. 6 Q. Now, if those patients become 7 addicted, would that addiction be iatrogenic? 8 A. If someone's already addicted, it is 9 not iatrogenic addiction. 10 Q. Did the OxyContin package insert have 11 any warnings that would alert physicians that 12 OxyContin should be used with extra care in 13 patients with a history of drug abuse? 14 A. Not directly. 15 Q. And what was in the package insert 16 that alerted doctors to the proper treatment of 17 patients who had a history of drug abuse? 18 A. The suggestions were scattered 19 through the package insert. There were 20 suggestions that you should use the AHCPR 21 guidelines, American Pain Society guidelines, 22 which talk about these patients. There was 23 extensive discussion of individualization of 24 dosage, selection of patients, physical 25 dependence, addiction, the differences between</p>	<p style="text-align: right;">246</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 consonant with the use of the word "may" in the 3 current package insert. Definitely, certainly, 4 proven, those would not be supportable. I'm not 5 sure they're true. 6 Q. The language used in the package 7 insert with the word "may" had to do with abuse 8 liability, correct? Not addiction. 9 A. For a patient taking the drug who 10 doesn't already have addiction, abuse liability 11 is more closely -- is presumed to be a surrogate 12 for addiction. It's how much liking, how much 13 central drug effect they get from the drug over 14 cycles of taking in a vulnerable patient in the 15 right social setting that's believed to trigger 16 addiction. 17 So if it has less abuse potential, if 18 it's got less liking, if it's got less central 19 drug effect, who would expect it to have less 20 risk, I think the statement's weak in the package 21 insert because of the lack of the head to head 22 data that you described. 23 (Testimony continued on following 24 page to include jurat.) 25</p>

FOSHEE & TURNER COURT REPORTERS

<p style="text-align: right;">247</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 Q. I have no further questions. 3 MR. STRAUBER: Thank you. 4 (TIME NOTED: 6:04 p.m.) 5</p> <p>6 CURTIS WRIGHT, IV, MD MPH 7 Subscribed and sworn to before me 8 this ____ day of _____, 2003. 9 _____ 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</p>	<p style="text-align: right;">250</p> <p>1 EXHIBITS 2 DESCRIPTION PAGE LINE 3 4 (Wright Exhibit 1 for identification, 5 Notice of Deposition.)..... 20 5 6 (Wright Exhibit 2 for identification, 7 document bearing Bates production 8 number 800200527 through 800200589.).... 66 24 9 (Wright Exhibit 3 for identification, 10 document bearing Bates production 11 number 8113900132 through 8113900043.)... 79 16 12 (Wright Exhibit 4 for identification, 13 document bearing Bates production 14 number 8113900019 through 8113900024.)... 79 25 15 (Wright Exhibit 5 for identification, 16 document bearing Bates production 17 number 8001000296 through 8001000113.)... 84 3 18 (Wright Exhibit 6 for identification, 19 Notes of Discussion.)..... 87 13 20 21 (Wright Exhibit 7 for identification, 22 Project Team Contact Report, 10/23/92.)... 95 10 23 (Wright Exhibit 8 for identification, 24 document bearing Bates production 25 number 8113900235.)..... 98 17 (Wright Exhibit 9 for identification, 8113900315 through 8113900323.)..... 101 2 (Wright Exhibit 10 for identification, document bearing Bates production number 7501020320 through 7501020327.)... 111 13 (Wright Exhibit 11 for identification, document bearing Bates production number 8002017468 through 8002017497.)... 125 7 (Wright Exhibit 12 for identification, Porter and Hick Letter to the Editor.)... 130 13 (Wright Exhibit 13 for identification,</p>
<p style="text-align: right;">248</p> <p>1 CURTIS WRIGHT, IV, MD, MPH 2 STATE OF NEW YORK) Pg. of Pgs 3 ss: 4 COUNTY OF NEW YORK) 5 I wish to make the following changes, for 6 the following reasons: 7 PAGE LINE 8 CHANGE: _____ 9 REASON: _____ 10 CHANGE: _____ 11 REASON: _____ 12 CHANGE: _____ 13 REASON: _____ 14 CHANGE: _____ 15 REASON: _____ 16 CHANGE: _____ 17 REASON: _____ 18 CHANGE: _____ 19 REASON: _____ 20 CHANGE: _____ 21 REASON: _____ 22 CHANGE: _____ 23 REASON: _____ 24 CHANGE: _____ 25 REASON: _____</p>	<p style="text-align: right;">251</p> <p>1 EXHIBITS 2 DESCRIPTION PAGE LINE 3 4 (Wright Exhibit 14 for identification, 5 document bearing Bates production 6 number 8001039123 through 8001039135.)... 153 19 7 (Wright Exhibit 15 for identification, 8 document bearing Bates production 9 number 8003007024 through 8003007048.)... 160 16 10 (Wright Exhibit 16 for identification, 11 document bearing Bates production 12 number 8003007060 and 8003007076.)... 162 23 13 14 (Wright Exhibit 17 for identification, 15 Medical Officer Review.)..... 164 25 16 (Wright Exhibit 18 for identification, 17 MS Contin Product Label.)..... 169 22 18 19 (Wright Exhibit 19 for identification, 20 document bearing Bates production 21 number 8113900101 through 8113900102.)... 184 12 22 (Wright Exhibit 20 for identification, 23 document bearing Bates production 24 number 8010119940.)..... 188 9 25 26 (Wright Exhibit 21 for identification, 27 document bearing Bates production 28 number 9101803708 through 9101803709 29 and 9101803722.)..... 192 11 30 (Wright Exhibit 22 for identification, 31 document bearing Bates production 32 number 9101804000 and 9101804012.)... 195 7 33 (Wright Exhibit 23 for identification, 34 document bearing Bates production 35 number 9101804075 through 9101804076.)... 196 25 (Wright Exhibit 24 for identification, Current Labeling.)..... 198 14 (Wright Exhibit 25 for identification, Call Report, document bearing Bates</p>
<p style="text-align: right;">249</p> <p>1 CERTIFICATE 2 STATE OF NEW YORK) 3 : ss. 4 COUNTY OF NEW YORK) 5 6 7 I, SUZANNE PASTOR, a Shorthand 8 Reporter and Notary Public within and for the 9 State of New York, do hereby certify: 10 That CURTIS WRIGHT, IV, MD, MPH, the 11 witness whose deposition is hereinbefore set 12 forth, was duly sworn by me and that such 13 deposition is a true record of the testimony 14 given by the witness. 15 I further certify that I am not 16 related to any of the parties to this action by 17 blood or marriage, and that I am in no way 18 interested in the outcome of this matter. 19 IN WITNESS WHEREOF, I have hereunto 20 set my hand this ____ day of _____, 2003. 21 22 23 SUZANNE PASTOR 24 25</p>	<p style="text-align: right;">252</p> <p>1 EXHIBITS 2 DESCRIPTION PAGE LINE 3 4 (Wright Exhibit 26 for identification, 5 Call Report, document bearing Bates 6 production number 7912533279.)..... 214 2 7 8 (Wright Exhibit 27 for identification, 9 document bearing Bates production 10 number 9100939555 through 9100939557.)... 218 2 11 12 (Wright Exhibit 28 for identification, 13 document bearing Bates production 14 number 9101803798 through 9101803799 15 and 9101803800 through 9101803808.)... 227 21 16 (Wright Exhibit 29 for identification, 17 Call Report, document bearing Bates 18 production number 7911443057.)..... 231 22 19 (Wright Exhibit 30 for identification, 20 Call Report, document bearing Bates 21 production number 7911450215.)... 233 23 22 (Wright Exhibit 31 for identification, 23 Call Report, document bearing Bates 24 production number 7911450927.)... 235 20 25 (Wright Exhibit 32 for identification, Call Report, document bearing Bates production number 7911452553.)..... 238 8 (Wright Exhibit 33 for identification, Call Report, document bearing Bates production number 7911452549.)..... 238 23 20 21 22 23 24 25</p>

A	103:9	190:24	absorbed	74:19 77:2	197:11
ABBOTT	105:20	194:10,21	35:25	77:14 78:23	199:13,20
1:10,10	108:8 109:7	196:4,13	absorption	78:24,25	199:24
abdominal	109:9	197:25	114:9,14	79:2,2,9	200:3 202:7
171:10	111:13	198:10	117:24	80:16,25	202:8 203:3
ability 5:9	113:24	200:3 201:4	152:3,17	81:21 82:9	204:4,5,7,8
70:3	115:10,16	201:15,25	153:8,16	82:11,17	204:8,18,23
able 5:7	115:19	202:3,4	156:2,13	85:24 86:24	208:10,25
58:10 142:4	116:8,21	203:12,14	158:10	92:4,13	209:4
185:19	117:9,15	203:16,18	159:24	93:12 95:17	212:11
about 5:10	118:4,4	203:22,23	163:19	95:20,25	223:11,13
7:24 8:5,6	121:16	204:23	164:12	96:9 97:14	232:12,15
9:21 10:15	123:6 124:3	206:15,20	223:12	111:18	232:20,25
10:18,24	124:22	208:6,15,24	abstinence	112:15,16	233:4,14
12:10,14,17	125:6,22	210:7,19,20	170:25	112:24	243:13,17
17:2 18:23	126:2,7,13	211:17	abstract	113:8,10,13	244:2,4
19:5 22:9	126:15,21	212:22,23	80:11	113:15,15	246:7,10,17
22:13 24:18	128:4,23	212:25	104:16	113:24,25	abused 50:13
24:20 25:14	130:24	213:10,15	148:22	114:10,15	190:19
26:21 27:25	134:4,9	214:21	abusable	115:16,19	abuser 27:4
33:5 34:8	135:20	215:2 217:8	42:17,20	116:3,6,18	42:18 92:6
36:22,23,23	139:19	218:23	74:23 83:8	117:3,20,25	abusers
37:15,15	141:9,13,15	219:7	154:21	118:8,11,12	35:12 114:2
38:3,13,15	142:17	220:24	abuse 5:22	118:13,24	114:6
39:11,12,16	143:6,15	221:11,16	6:13,14	119:13,23	122:19
39:20,23,24	144:2,4,16	221:19	13:4 14:15	119:25	233:12,17
40:5 41:25	145:12	222:4	15:4,5	123:15	abuses 86:10
42:10 48:3	146:2,9,19	223:18	25:23 26:3	127:4,8,11	abusing
48:7 51:8	146:21	224:15	26:8,11	135:12,15	207:20
52:2,9	149:18	228:22	27:15 28:5	136:3	accede
55:20 56:19	151:7	230:17	32:2 34:9,9	148:18	115:14
59:20 60:9	155:23	231:14,15	34:12,18,21	149:3 150:8	accept 97:9
60:14,16	157:21	232:11,15	34:23,24	150:17,22	151:6
61:17 62:18	158:18,22	240:10,10	35:4,5,7,20	151:2,9	acceptable
62:20 63:8	159:2,3,10	240:25	36:4,21,24	152:4,18	31:9 73:17
64:11 68:8	159:24	241:24	37:11 38:3	153:10,17	183:17
70:9,21,25	160:5,13	243:22	38:8,11,18	154:10	accepted
74:9,13,22	163:8	244:9	39:25 40:6	155:2,9,20	10:12 18:11
75:8 77:3	168:12,13	above 167:24	40:10,12,24	156:3,10,14	152:9
78:11 79:9	169:10	ABRAHAM	41:7,9,11	156:24	194:15
79:25 86:15	173:10,14	2:12	41:25 42:23	157:6,21	201:18,19
87:20,22	173:18	abruptly	43:20 44:15	159:25	224:16
88:3,24,25	174:4,20	59:15	45:3,4,9,20	162:12,15	access 210:16
89:12 90:14	177:22	170:19,24	46:13,19	163:17,22	accompanied
91:20 93:18	179:11,12	171:16	47:15,17,22	164:13	128:9
95:24 96:5	181:24	absence	49:25 50:22	174:24	171:21
96:6,13,20	182:17,20	172:3 216:5	54:19 55:21	190:18,19	accordance
96:21 97:6	182:24	absolutely	56:2,9,13	191:21	68:22
98:8 99:12	187:10,17	99:20	56:19,25	193:8,25	according
99:16,18,22	188:21	103:10	63:13 64:23	194:10,22	116:24
101:22	189:4,25	137:25	65:14,14	195:14	136:25
	190:9,13,16	202:13	66:4,7,10	196:13	161:3

185:15 223:7 account 180:9 accumulated 118:7 accurate 165:25 166:3 167:16 180:11 acetaminop... 97:13 achieve 37:25 achieved 146:4 187:6 acid-base 171:23 across 174:13 acrylic 101:25 act 31:12 53:25 154:14 239:11 acting 217:22 234:13 action 1:7 225:13 249:16 actions 36:12 active 93:22 102:11,15 103:17 135:6,14 190:16 actively 44:9 activities 19:10 198:15 activity 160:8 160:10 162:13 163:20 164:5 acts 54:8,9 actual 13:19 15:13 42:11 62:19 102:18 119:13 122:15	142:17 187:3 actually 38:21 40:20 47:9 52:5 54:11 69:7 82:7 83:24 97:12 100:11 108:22 111:7 119:9 121:5 122:9 129:7 141:3 174:6 175:24 177:21 184:18 187:4,5 199:25 202:2 208:9 216:8 232:20 237:11 acute 137:6 137:12 202:17 add 4:16 75:17 121:23 204:17 added 32:6 109:18,22 196:16 199:9,10 204:22 addict 28:2 59:9 94:4 135:10,10 139:10 addicted 31:4 132:8 146:12 147:8 197:16 205:22 207:7 243:7 243:8 addicting 219:14,22 220:4,7 222:5,10 addiction	28:16,20,23 29:6,8,9,16 30:18 32:14 46:8 55:22 56:2,8,9,14 56:25 57:6 57:18,21,22 57:25 58:13 81:11 82:17 92:12,20 93:20,22 95:21 96:7 96:23 113:4 113:6,7 122:23 123:2,21 124:6 127:19 128:6 130:4 131:8,13,14 131:15,20 131:21,23 132:3,4,12 132:13,17 132:18 133:12,12 135:6,12,14 139:14,20 142:23,24 143:3,6,8 144:2,4,23 145:23 146:8,22,25 148:18 149:4 194:5 194:8,10,25 195:20 196:8,14,17 197:13 200:3,8,12 200:16 201:23 202:4 203:3 203:25 205:9 209:7 210:6 211:23 212:8,21 214:17,25 215:4,21 216:2,9 220:8	222:12 223:9 224:5 224:10 225:7 242:2 242:9,13,15 242:21 243:5,7,9 243:25 244:5,9 245:2,17 246:8,10,12 246:16 addictionol... 224:17 225:2,10 addictions 244:3 addiction/d... 127:8 addictio)n 127:9 addictive 27:21,22 58:16 61:9 149:14 addicts 26:13 26:16 35:12 77:2 82:5 114:2,6 122:3 123:8 123:24 132:9,10,10 134:6 212:4 214:13 215:13,14 244:19 adding 190:25 addition 31:24 59:17 95:21 229:18 additional 14:3 27:2 27:12,13 109:16 212:15 address 63:15,17 92:24,25 106:19,20 158:21	229:21 237:24 addressed 32:7 64:11 106:16 175:10 addressing 159:4 adequacy 110:9 adequate 72:19 73:18 142:5 229:4 adequately 90:23 adjective 51:19,21 80:13 81:10 82:2 245:24 245:25 adjectives 80:15 82:5 83:13 adjusted 37:18 87:4 87:10 administered 183:17 administeri... 27:21 administra... 3:16 6:20 6:23 10:10 56:10 71:6 88:23 152:22 193:14 administra... 165:22 Adolor 7:19 7:23,25 10:4,13 17:11,19 43:25 adopted 197:25 advanced 26:8 adverse 32:24 82:2 134:13 157:25	167:13,18 168:10 173:19,25 174:21,24 175:4 180:6 advertising 19:8,14 76:15,19 advice 27:5 130:12 195:23 196:12 advise 93:15 175:12 advocated 210:13 affairs 6:18 6:25 7:2 10:6 237:3 affect 4:23 5:2 29:16 32:13 58:23 207:21 affecting 6:10 Affirmative 114:7 148:21 154:4,23 after 4:17 6:21 9:11 10:16 80:10 109:17 116:16 128:5 138:14 159:22 168:22 170:18 181:24 188:16,18 190:19 199:10 230:5 afternoon 95:9 140:8 again 61:21 74:9 100:9 102:22 108:3 145:4 155:22 156:20 163:16
---	--	--	---	--	--

164:2	49:17,19	243:16	among	125:12,14	antidote
167:17	53:19,23	ALLEN 2:8	107:16	126:20	53:25
193:21	54:10 74:14	allow 110:18	135:14,15	annotation	antihistami...
195:12	83:3	230:25	142:23	188:14	179:14
207:8 216:4	agree 13:5,11	allowed	182:6	194:19	antiinflam...
233:10	13:12,14	13:14 89:25	244:19	anomaly	90:9
234:15	123:18	allowing	amongst	45:22	anxiety 171:9
235:3 236:8	136:7	224:3	83:12 147:2	anorexia	anxious
236:12	137:21	244:24	147:6	171:11	10:17 59:19
237:15	145:19,24	alluded	amount	another	anybody
238:12	150:9 193:3	135:24	14:24 36:23	93:23,24	206:13
239:3,13,23	200:14,17	Almost 56:8	36:25 37:18	98:21	anymore
against 1:8	202:5	along 115:6	37:19 75:23	154:22	41:6 129:22
19:9 48:8	204:11	145:14	118:6	163:9	153:18
100:11	228:4 245:8	already 28:12	122:17	183:15	201:13,14
103:15	agreed	83:8 110:22	amounts 15:2	185:23	anyone 17:3
121:12	109:18	127:16	180:19	188:13	25:13,18
151:20	240:6	128:4	216:22	197:18,19	57:9 107:24
167:11	agreement	129:12	amplify	214:6,7	164:11
178:4	158:8	207:25	23:23	216:8 217:5	185:10
202:16	AHCPR	220:5 243:8	analgesia	232:3 234:4	237:2
age 203:9	124:20	246:10	45:8 173:2	235:23	anyone's 58:7
agencies	144:22	alteration	analgesic	answer 4:14	anything
210:19	145:4	163:18	12:3 54:17	4:15 5:8	9:20 18:25
agency 14:10	207:13	alterations	107:9	13:17 14:7	24:4 64:17
14:11 15:16	209:19	57:12	158:16	18:3 23:23	79:8 101:21
68:23 71:10	243:20	altering	179:8	28:13 31:7	155:16
71:16 72:14	ahead 5:8	47:19	180:19,21	32:10 50:8	174:20
73:2 88:7	68:11	alternative	180:22	56:8 60:21	205:11
91:7 92:22	115:25	116:14	181:22,23	81:9 120:23	210:21
94:9 97:11	173:17	although	182:4	146:17	213:10,15
99:23 102:4	218:23	14:2 115:3	183:22	157:13	anyway
115:3	223:3	125:6	184:10	191:25	72:22
116:15	aim 219:10	131:10	196:18	205:14	Anywhere
117:11	aimed 220:23	176:23	217:5	207:21	15:8
165:14	akin 134:5	always 28:18	analgesics	212:17	apart 103:20
168:8 186:4	Alabama 2:9	84:3 135:3	197:13	224:19	233:16
198:8	Albert 105:8	166:2 184:3	200:8	answered	apologize
230:24	alcohol 26:11	205:3	analog 51:15	58:7 200:24	79:23
agency's	alcoholics	231:22	85:14	answering	apparently
71:17	26:13,16	amazingly	analysis 7:2	46:10	68:7 69:8
228:21,25	37:9,15	121:17	analyze 52:9	antagonist	84:23
aggressive	203:13	amend 73:20	231:6	47:20 54:11	102:25
209:19	alcoholism	197:10	analyzing	54:13 74:17	138:11
agnostic	26:21 27:4	America 45:5	80:24	79:6	146:23
168:15	92:14 203:7	209:15	anesthesia	antagonist/...	151:25
ago 97:24	203:11	American	203:20	49:15 52:13	155:5
105:2	alert 243:11	29:23 33:22	anesthetic	52:23	160:22
116:10	alerted	46:2 124:21	12:3	anticipate	163:24
agonist 54:8	205:23	133:16	animal 41:11	36:4,9	184:17
83:2 121:20	206:13	145:6	Ann 11:18	37:17 39:10	218:22
agonist/ant...	207:10	243:21	annotated	61:6 118:9	228:6

235:25 appear 87:20 140:12 170:7 201:3 236:7 APPEARA... 3:2 appeared 244:22 appears 68:3 84:11 95:13 98:21 101:5 125:11 153:23 154:2 192:16 212:3 214:6 218:9,13 220:23 228:9 229:19 232:3,14 234:4,17 235:10,23 238:13 239:12,23 appendix 67:7,7 76:14 applicable 68:18 application 15:20 49:21 70:7 82:3 125:14,18 125:21,24 153:14,24 167:3 177:2 applications 129:15 applied 191:21 apply 191:6 193:16 appointment 21:22 appreciate 237:12 approach 123:18 128:3 223:4 223:25	approaches 72:9 appropriate 28:19 30:13 30:20 33:11 33:14 37:19 67:12 68:18 74:24 79:6 106:23 107:19 133:8 140:8 185:17 186:20 207:12 225:19 226:2 228:25 229:14,23 230:22 235:16 236:14,18 240:15 appropriat... 73:20 106:25 176:8,9 appropriat... 110:9 approval 9:11 65:8 66:22 68:9 70:14 73:3 73:11 108:14 117:11 118:5 156:17 approved 18:7 19:21 19:24 73:4 76:3 111:3 113:5 117:7 122:15,20 126:4 127:16 224:9 approving 17:23 April 98:25 193:13 area 19:17 25:22 26:25	49:23 56:20 115:8 138:18,19 141:5 202:21,23 221:22 areas 14:12 argue 38:15 argued 140:2 arguing 110:17 argument 129:2 arise 118:22 arms 121:23 around 117:13 118:25 124:19 126:13 127:23 129:24 147:15 158:5 164:25 211:21 around-the... 86:11 107:7 181:7 187:4 225:24 226:2 230:12 236:22 arrange 22:11 art 59:24 60:2 arterial 118:21 arthritis 89:20 90:2 90:4,6,7,15 90:20,23,24 91:9,11,12 91:14,15 106:11,18 106:19 107:3 108:25 article 79:22 128:18,21 128:22,23	148:16 articles 129:3 132:12 articulate 216:11 artificial 228:24 ASBILL 3:9 ascertain 155:2 aside 166:13 210:3 asked 8:17 14:4 20:14 39:23 51:8 58:25 61:25 71:22 81:8 81:13,15 85:13,14 139:8 147:16,24 152:23 159:6 189:11,15 206:14 211:17 asking 14:19 29:3,5 50:10 76:16 76:20 77:3 95:23 96:14 106:22 111:25 112:3,4 121:23 146:15 147:21 164:11 181:25 182:2 198:15 235:10 asks 133:4 aspects 56:23 185:2 aspirin 46:4 assess 9:8 29:25 38:25 83:17 assessment 9:4,6,12 10:3 11:18	33:7,13 49:7 64:6 73:9 93:6 133:4 assigned 44:9 44:10 assistance 189:15 associated 11:10 31:20 94:2 145:9 168:11 183:6 208:17 216:13 assume 77:9 95:21 104:24 150:13 195:24 199:8 assurance 143:5 asterisk 87:4 asymmetri... 211:24 attached 80:14 161:10 192:24 attempt 58:17 77:23 attempting 88:10 attempts 10:16 attend 64:8 attended 5:15 attending 202:18 attention 101:12,24 103:25 108:10 160:20 169:25 184:22 197:5 239:7 attorney 155:23 245:9 attorneys 2:3	3:3,9 25:8 25:11 52:15 attractive 50:23 attributes 82:16 August 101:6 161:4 163:5 163:13 authoritative 206:9 authority 67:23 98:12 189:13 available 19:3 33:19 46:2 64:20 130:12 145:25 167:14 176:18 200:11,15 234:15 Avenue 2:4 3:10 average 173:4 avoid 91:3 209:20 231:16 aware 136:10 147:20 150:8,9 156:16 157:3,19 158:3 169:13 182:16 205:7,11 241:12 away 222:25 236:5 awful 222:19 A-D-O-L-... 7:19 a.m 1:14 <hr/> B <hr/> B 250:2 251:2 252:2 bachelor's 5:12
---	--	--	---	--	---

back 11:20 12:5 14:14 22:23 31:8 70:16 74:5 77:4,8 79:14 84:25 88:14 89:20 90:15 104:8 104:20 105:19 107:11 108:3 109:5 109:10,13 114:3 118:3 122:22 135:23 150:10 152:20 160:25 164:15 165:25 177:19 179:18 192:19 195:11 201:15 211:19 215:10	187:25 195:24 206:4,12 207:13 210:6 211:3 230:19 231:17 245:21 baseline 181:14,20 basic 34:4 45:6 51:3 134:13 basically 73:14 128:21 166:21 168:15 basics 6:24 basis 40:25 85:22 118:16 127:20 180:25 183:18 184:5 194:23 batches 102:13 Bates 67:2 68:2 79:18 80:3 84:5 98:19 101:13 111:15,19 125:9 127:3 153:21 154:8 160:18 162:25 184:14 188:11 192:13 195:9 197:3 211:2 214:5 218:4 227:23 231:25 234:2 235:22 238:11 239:2 250:5	250:7,9,11 250:16,20 250:22 251:4,6,8 251:13,15 251:17,19 251:21,25 252:4,6,8 252:10,12 252:14,16 252:18 BD 239:10 beam 30:15 bearing 67:2 79:18 80:3 84:5 98:19 111:15 125:9 153:21 160:18 162:25 184:14 188:11 192:13 195:9 197:3 210:25 214:4 218:4 227:23 231:24 233:25 235:21 238:10,25 250:5,7,9 250:11,16 250:20,22 251:4,6,8 251:13,15 251:17,19 251:21,25 252:4,6,8 252:10,12 252:14,16 252:18 BEASLEY 2:8 became 31:25 49:9 97:15 become 31:3 59:19 89:5 91:4 93:5 205:22 207:6	233:13 243:6 becomes 58:5 58:23 106:12 165:22 becoming 89:2 147:8 197:16 Bedford 12:12,12 18:14 66:18 161:7 163:8 beds 141:6,7 before 1:19 7:15,25 11:20 12:11 18:11 20:11 98:11 117:7 117:7 130:21 135:21,24 144:21 178:10 182:10 188:4 201:21 206:7 211:5 211:8 214:21 215:8 218:7 224:25 225:18 231:11 241:10 247:7 began 46:21 46:21,23 48:22,23,25 49:4 58:14 76:9,9,11 76:12 228:20 begin 34:20 36:21 53:25 54:4 56:12 59:10 99:6 113:2 158:20 159:2,3 181:25 204:7	207:16 beginning 31:12 50:20 59:18 117:15 begins 57:9 behavior 6:10 58:20 99:24 100:12 120:5 123:23 130:11 behavioral 6:3,5,9,21 58:21 behaviors 59:8 149:14 behind 59:24 being 28:7 34:7,20 36:14 48:11 50:5 55:9 58:10 60:19 69:15 73:3 73:4 77:11 87:17 94:4 96:10 105:21,23 124:19 129:9 134:5 135:16 140:19 160:3 167:15 175:5 182:17 193:18 201:5 231:18 234:22 belief 152:12 beliefs 142:17 245:22 believe 29:13 30:23 45:23 47:10 57:12 78:2 85:5 105:6 111:9 123:4 128:17 134:17	142:10 148:20 151:12 157:11 169:19 174:15 196:5 197:8 198:4,4 208:5 216:10,12 222:3 240:23 241:2 242:5 242:7,8,15 243:4 believed 114:10,15 129:12 143:3 152:4 152:11,12 152:18 153:9,17 156:3,13 158:14 159:11,11 159:18 162:14 163:21 164:13 223:13 232:24 246:15 believes 201:12 Belinda 66:14 162:2 belonged 24:6 belongs 35:24 below 20:17 bench 48:24 benefit 225:15 238:19 benefits 33:3 227:13 benzodiaze... 155:15 besides 16:3 17:18 97:7 114:24 185:2
---	---	--	---	--	---

<p>best 5:9 30:3 45:25 90:17 104:18 105:12 106:17 128:2 130:12 174:16 198:12 223:5 Bethesda 27:3 better 38:6 62:18 110:23 155:25 168:4,12,14 174:9 175:4 185:22 236:4,11 between 9:23 12:18 15:8 29:15 32:11 35:3 39:18 39:18 50:17 50:19 62:22 64:14,24 71:20 80:23 81:4 84:19 85:17 95:14 98:16,23 102:13,15 111:23 118:15 119:7 122:10 132:3 137:12 152:21 156:17,22 157:4,20 163:8 169:14 173:11 188:14 203:8 204:9 243:25 beyond 20:3 96:16 106:14 bias 103:12 151:19</p>	<p>BID 175:17 177:23 178:3 183:18 184:9 215:24 216:18 Bigelow 122:21 bigger 38:5 64:21 binding 70:5 70:6,6 72:14 bioavailabi... 38:16 46:22 46:25 bioavailable 64:19,19 bit 34:8 36:23 41:24 55:20 60:12 202:2 237:14 bits 139:4 black 193:6 blind 102:7 103:6 blinded 50:16 blocking 162:2 blood 38:17 38:20,21,22 39:4 80:23 81:24 119:21,23 120:2 171:12 249:17 blurring 37:14 board 7:12 34:2 143:4 234:13 235:2 boards 29:22 29:22 30:23 94:11 boat 208:23 Bob 12:12 18:14 bodies 206:9 body 145:7</p>	<p>192:22 bold 199:19 Bonnie 22:21 bonus 12:19 book 21:22 books 48:9 48:10 Boston 132:24 134:10 136:23,24 137:10 145:13 both 9:9 26:5 31:13 33:8 34:24 39:8 41:11 65:20 66:3 85:9 87:9 102:20 112:21 113:18,20 114:6 119:10 120:3 122:17 142:23 154:12,17 173:3 181:14 185:23 192:25 201:16 202:12 bothersome 115:8 bottle 31:17 bottom 73:23 103:24 170:21 172:12 199:8,13 box 193:6 boxed 204:17 204:23 brain 36:2 56:13,15 218:20 bread 143:13 break 41:19 63:11 94:13 140:9 144:18,21</p>	<p>188:5 241:17 breakdown 62:12 breaks 4:20 breakthrou... 180:21 181:15 Breder 55:10 BRENNAN 3:9 briefly 131:6 bright 116:17 bring 20:15 116:5 brought 101:24 108:10 157:17 178:14 Buddy 16:18 build 10:2 219:4 bulk 46:3 bullet 76:25 bum 137:14 bump 216:25 Buprenorp... 53:17,18 54:5,6,20 121:5,7 Buprenorp... 74:20 burdens 71:12 burn 134:21 137:15 Burt 214:11 business 94:5 144:16 166:5,9 215:6,7,8 butter 143:13 B2 178:15</p>	<p>10:20 16:25 17:5,8,21 22:11,11,12 22:15,17 23:9 49:10 71:7 95:14 95:17 96:4 99:4 100:14 119:10 123:8 149:23 191:17 210:25 211:8 212:2 213:4 214:4 219:8 231:24 232:3 233:25 234:4 235:21,24 236:21 237:3,10,23 238:10,25 240:4 251:25 252:4,10,12 252:14,16 252:18 called 7:19 8:14 10:8 17:5,12 27:5 35:4 35:18 51:15 59:23 61:16 100:6,7 115:4 155:19 170:11 calls 4:14 198:7 244:10 came 18:6 49:7 97:11 100:6 115:6 129:4,13 140:24 156:12 215:8 cancer 10:17 89:7 caplet 75:10</p>	<p>cardiovasc... 171:24 care 116:21 134:8 141:14 243:12 cared 76:22 careful 32:14 210:19,20 carefully 129:13 carried 151:10 carries 110:19 case 25:14,19 30:11 67:12 72:7 86:18 100:8 115:9 119:5 139:23 177:14 202:23 203:5,15 208:16,17 209:6 cases 27:6 51:3 100:8 131:12 136:21 catchment 133:20 categories 85:7 category 91:5 229:16 Catherine 141:17 Cathy 11:19 cause 61:11 causes 63:2,6 ceding 70:19 100:7,20 center 3:5 81:12 99:6 133:22 134:21 202:19 208:5,11 centers 141:18 207:18,24</p>
--	---	--	---	---	--

208:2 central 119:3 246:13,18 CEO 10:8 certain 13:13 51:9 57:16 58:7 71:19 88:6 99:9 102:8 106:25 110:8 130:10 196:3 certainly 34:3 49:24 75:14 77:17 82:15 83:20 92:10 107:8 107:15 112:12 118:20 152:6 153:4 156:5 166:16 173:16 175:25 177:16 186:16 187:22 217:24 235:19 239:16 246:3 certify 249:9 249:15 cess 238:20 239:19 cessation 239:9 cetera 20:20 173:7 Chabal 136:14 140:16 202:6 208:4 chadbourne 1:18 3:3 25:9 challenging 122:6 187:9 chance 28:4 30:17 147:7	155:11 202:2 213:9 240:24 chances 29:16 215:21 224:4,10 225:6 245:2 245:16 change 116:15 124:7 248:8 248:10,12 248:14,16 248:18,20 248:22,24 changed 10:25 12:2 46:18 111:12,23 111:23 112:5,6 163:25 changes 32:8 56:13,16 112:9,9 191:20 193:5 248:5 changing 71:23 78:15 205:2 character 58:15 characteris... 56:14 57:17 characteris... 90:10 characteriz... 123:14 127:10 171:2 223:9 charge 22:25 26:24 54:23 55:15 65:9 charges 100:11 Charles 136:14 Charlotte 211:12 charts 225:17 chasing	129:17 check 45:23 51:24,24 121:24 122:4 checklist 58:12 80:13 81:11 82:2 83:12 checklists 51:20,21 58:18 81:7 checkout 24:2 chemical 27:7 30:11 208:25 209:2,3,5 209:11,14 chemist 5:15 65:23 chemistry 5:13 chemists 77:21 102:5 chills 171:6 choice 177:10 choose 57:4 chop 190:24 Chris 192:17 Christopher 55:10 chronic 59:7 60:4,17 89:4,6,15 89:16,18 124:25 135:17 136:19 137:12 140:11 141:16 147:6,6 148:18 149:9 172:2 200:12,16 201:23 210:10 cigarettes 119:8 circulation 35:25	circumstan... 57:3 citation 194:12 cite 128:12 154:14 cited 128:25 cites 154:18 154:19 citing 202:22 civil 1:7 130:11 claim 76:25 77:4,8,11 77:13 79:9 91:12 143:24,25 147:4 153:8 153:15 156:23 173:21,24 174:14,20 174:22 185:6 186:3 186:11,17 186:18 187:7 229:4 claimed 175:3 claims 19:23 20:3 76:15 76:18,23 88:11 104:19 105:13 108:17 109:16,22 110:13 164:21 174:17 175:8 class 35:23,23 83:4 92:19 158:2 159:10 160:5 174:23 233:20 classified 132:17 classify 58:9 132:20	classwide 191:22 clause 222:9 239:13 clean 193:2 clear 54:12 73:19 81:3 89:6 90:18 102:17 113:21 116:16 132:21 139:2 209:24 216:7 clearance 226:15 cleared 226:16 227:3,5 clearer 89:3 clearly 229:18 cling 222:21 clinic 49:2 135:23 215:15 clinical 6:25 9:14,20,22 10:5 11:11 13:25 14:5 14:12 15:18 15:20 20:18 26:10 27:9 55:17 63:14 64:23 66:4 66:5,15 69:17 71:21 76:11 87:23 90:22 92:15 93:10 101:17 102:23 106:15 109:20 110:3,3,5,7 110:16 122:4,15,18 133:8 154:3 155:6 157:11,12 159:8	165:14,15 166:10,20 167:20 168:21 173:20 177:9 178:24 179:22 182:12,17 183:21,23 183:25 184:8 185:7 185:16 187:3 192:3 200:22 211:19 228:22 230:17 238:3 clinically 60:3 85:17 178:21 186:2 clinicians 49:2 clinics 134:4 136:2,20,22 242:12 clock 57:10 close 38:19 102:18 197:9 198:16 closely 132:5 246:11 cloud 58:24 cloudy 81:5 cocaine 118:15,16 118:20,21 codeine 40:5 40:17 COHEN 2:3 collaborative 132:24 134:10 136:24 137:10 145:13 collapse 171:24 College 5:13
---	---	--	---	--	---

color 226:14	41:6 51:12	company's	115:24	200:3	151:14,15
column	55:25 61:13	164:23	complicated	215:19	152:13
170:18,20	61:16,19	comparable	30:11 58:20	conclude	Conover
combination	62:5,6,10	150:22	complicatio...	131:18	67:17
46:4 74:2	62:15 74:15	comparative	27:13	concluded	109:18
74:10,16	114:5 115:4	43:3 83:11	component	149:7	consecutively
85:9 154:12	123:18,23	85:3 104:13	97:13	conclusion	131:10
187:2	124:18	105:12	components	139:19	consensus
combo	128:4	comparator	26:6	144:10	29:22 130:8
176:12	137:19	45:11,12	compound	168:8	145:11
combos 187:4	142:21	46:13,18,22	43:7	conclusions	152:12
come 7:12	147:15	47:7,10,12	compounds	83:22	consequence
39:14 59:22	149:14	compared	178:4	142:20	152:20
74:21 90:3	157:24	47:25 83:13	COMPPA...	165:15,20	consequenc...
157:24	200:21	169:17	1:10	179:17	36:11,12
158:4	219:15	174:2	comprehend	183:5,15	78:25
198:16	244:5,19	175:14	73:11	conclusively	conservative
201:9	communicate	178:20	compromis...	146:10	145:10
comes 39:14	18:22	182:18	102:6	concomitant	206:11
103:11	communica...	184:2	compulsory	61:3	consider
112:18	208:21	202:18	26:5	condition	73:25 92:4
143:4	communica...	comparing	concept	89:24	considerable
165:13	20:16 23:13	53:7 54:20	58:13 59:22	106:13,16	46:7 71:4
comfortable	34:2 158:24	103:15	117:14	109:12	75:22 79:4
89:18 96:22	community	105:5 121:3	124:18	216:12,18	96:12
118:21	30:23 46:8	comparison	127:23	conditions	considerati...
164:18	89:13	47:14 52:24	172:5	4:22 89:15	73:2
205:25	107:16	122:10	concepts 57:8	204:6	considered
231:8	companies	comparisons	57:22	conduct 9:24	14:13 89:9
coming	13:7 90:16	48:6 72:18	109:25	14:3 147:16	103:21
211:21	133:5	competitive	123:5	conducted	112:21
213:2,2	147:16	185:5 187:7	concern	4:6 104:15	131:15,23
commanded	193:16	187:17	28:18,24	109:19	133:11
120:16	204:17	competitor	29:4,4,5	155:2 157:4	150:21
comment	company 3:4	185:18	88:17 89:25	157:7,9,11	151:24
117:12	10:9,14,15	186:11	96:24	conferences	158:18
176:22	10:19 13:23	complete	109:11	209:13	consonant
comments	13:25 15:25	244:6	133:16	confess	129:11
69:16,21	18:23 19:10	completed	228:21	130:10	246:2
70:9 84:13	21:25 48:15	5:17 47:9	230:24	confident	consultation
161:13	48:19 49:3	48:11 70:22	231:22	119:16	27:5 30:13
197:8	49:16 68:18	70:23	concerned	confidential	33:14
Commerce	68:21 90:2	179:22	27:25 77:20	67:10,14	143:22,22
2:13	110:17	206:7	77:23 78:11	confined	consumer
commercial	129:6 159:2	completely	98:8 203:12	213:22	15:9,11,12
99:24	164:9,17	56:5 82:5	208:15	conforming	22:3,6,7,14
commissio...	165:18	158:19	concerns	15:16	22:15,16,19
8:13	173:22	240:8	96:21	confused	contact 8:17
committed	188:17,19	completeness	105:20	81:5	16:10,13,20
71:14	192:2	149:12	137:15	confusion	16:22,24
common	201:14	complex	194:10	86:8 178:16	17:2,7
29:11 31:16	221:8	40:17	196:13	conjecture	57:20 64:2

64:7 95:12 98:21 104:2 184:17,20 190:25 214:7 228:8 250:15 contacted 17:4 159:21 160:3 contain 145:21 168:24 169:9 contained 19:23 169:4 containers 101:20 contains 19:4 26:5 161:11 165:14 content 95:18 99:7 context 34:18 34:22 36:16 60:25 113:22 191:16 203:6 207:2 207:3,12 236:19 contexts 34:16 Contin 16:8,9 16:16 39:17 39:18 64:12 64:15,21 97:3,8 104:5,23 107:23 108:2,12 114:16 117:9,11 127:13,16 146:2,4 169:15,19 169:24 170:6,8,12 171:14,16 204:23 205:2 215:11,12 251:11	continue 74:2 208:22 209:12 211:21 continued 3:2 89:2 95:8 245:7 246:23 continues 230:24 continuously 212:22,23 continuum 43:6 contradict 13:15 contradicti... 230:3 contraindic... 150:7 209:9 210:3 contrary 217:23 contributio... 130:2 control 32:6 35:15 57:2 234:11,24 236:4,11 controlled 31:12 33:16 35:9 39:12 39:13,15 50:15 52:25 53:7,13,16 77:13,16 83:14 88:21 89:4,9,15 107:6 113:12 114:19,23 115:19 117:6,24 121:8 122:10 150:25 151:8 154:13,16 154:25 155:8 156:9 156:23 158:4,9	159:17,22 167:7,10 172:12,17 181:3 183:12 191:7,15 215:9 216:16 224:15 225:5 230:7 231:18 232:21,23 233:3 controls 31:14 32:5 controversial 129:11 controversies 203:22,23 controversy 71:5,7 177:3 convenient 41:19 conversation 22:2 23:7 23:18 88:2 99:11 conversatio... 22:9,25 23:14 conversely 119:25 conversion 211:18,18 convinced 133:13 240:9 coordinates 101:18 102:24 coordination 9:4,7 Coosa 2:9 copy 110:23 130:20 193:2 198:17 210:23 213:8 core 185:3 correct 14:6	21:15 24:13 25:23 35:5 45:17 53:19 56:3 57:6 62:13 67:18 73:22 75:19 75:20,22 78:5,8,9 84:25 85:4 102:7 105:17 114:6,12 117:21,22 119:18 124:12 125:18 134:12 136:4,20 137:4,7,25 138:6,7 140:13 142:8,12 144:23 147:2 148:4 149:5,9,15 149:16 152:5,10 154:3,22 155:4,10 156:4,10,11 156:15 157:8,10 161:5 166:11 175:15,17 177:24 183:18 186:13 187:14 188:17,22 189:5,18 192:20 201:24 202:12 204:13 208:6 212:10 213:13,20 216:19 217:5 218:11,21 220:13	224:9,12,17 225:20,21 226:6 229:7 232:4,5,22 233:5 234:5 235:12,18 236:15 239:15,25 246:8 corrected 175:11 correlated 119:3 correspond 223:25 correspond... 65:22 correspond... 163:5 cost 54:21 cough 45:25 46:6 counsel 3:2 4:16 20:14 count 164:25 counted 14:23 countertra... 128:24 counting 15:9 countries 9:23 country 149:25 233:13 COUNTY 248:4 249:5 couple 25:22 67:6 117:18 138:10 course 28:17 28:22 66:14 67:11,13 91:11 93:9 93:17 106:15 128:25 166:5,9 180:20 231:16 235:15 244:10	courses 6:19 6:23 COURT 1:2 courtesy 189:11 cover 161:3,4 161:10 166:14 192:22 CR 71:22 85:4,18 86:19,22 87:2 167:8 167:10 168:3 172:15 174:10 178:14 179:25 183:6,11,16 crack 118:16 cramps 171:10 crashed 10:16 crashing 179:8 crazy 222:16 create 58:12 229:13 245:16 created 193:6 creates 215:21 224:10 225:6 creating 224:4 244:25 crept 175:2 criteria 91:22 91:24 92:25 93:4 Critical 32:23 crossed 163:20 crossover 172:25 cross-conta... 137:15 cross-sectio...
--	--	--	---	---	---

144:8 CROW 2:8 crushed 183:9 crushing 183:10 cumulative 14:20 current 8:10 9:2 10:22 11:13 20:15 56:20 76:3 131:7 133:3 198:18,20 198:23 199:2 246:3 251:23 currently 7:8 44:9 167:14 228:23 CURTIS 1:16 4:1,2 5:1 6:1 7:1 8:1 9:1 10:1 11:1 12:1 13:1 14:1 15:1 16:1 17:1 18:1 19:1 20:1 21:1 22:1 23:1 24:1 25:1 26:1 27:1 28:1 29:1 30:1 31:1 32:1 33:1 34:1 35:1 36:1 37:1 38:1 39:1 40:1 41:1 42:1 43:1 44:1 45:1 46:1 47:1 48:1 49:1 50:1 51:1 52:1 53:1 54:1 55:1 56:1 57:1 58:1 59:1 60:1 61:1 62:1 63:1 64:1 65:1 66:1	67:1 68:1 69:1 70:1 71:1 72:1 73:1 74:1 75:1 76:1 77:1 78:1 79:1 80:1 81:1 82:1 83:1 84:1 85:1 86:1 87:1 88:1 89:1 90:1 91:1 92:1 93:1 94:1 95:1,5 96:1 97:1 98:1 99:1 100:1 101:1 102:1 103:1 104:1 105:1 106:1 107:1 108:1 109:1 110:1 111:1 112:1 113:1 114:1 115:1 116:1 117:1 118:1 119:1 120:1 121:1 122:1 123:1 124:1 125:1 126:1 127:1 128:1 129:1 130:1 131:1 132:1 133:1 134:1 135:1 136:1 137:1 138:1 139:1 140:1 141:1 142:1 143:1 144:1 145:1 146:1 147:1 148:1 149:1 150:1 151:1 152:1 153:1 154:1 155:1 156:1 157:1 158:1 159:1 160:1 161:1 162:1 163:1 164:1 165:1 166:1 167:1 168:1 169:1 170:1	171:1 172:1 173:1 174:1 175:1 176:1 177:1 178:1 179:1 180:1 181:1 182:1 183:1 184:1 185:1 186:1 187:1 188:1 189:1 190:1 191:1 192:1 193:1 194:1 195:1 196:1 197:1 198:1 199:1 200:1 201:1 202:1 203:1 204:1 205:1 206:1 207:1 208:1 209:1 210:1 211:1 212:1 213:1 214:1 215:1 216:1 217:1 218:1 219:1 220:1 221:1 222:1 223:1 224:1 225:1 226:1 227:1 228:1 229:1 230:1 231:1 232:1 233:1 234:1 235:1 236:1 237:1 238:1 239:1 240:1 241:1 242:1 243:1 244:1 245:1 246:1 247:1,6 248:1 249:10 customary 180:24 181:9,12 customer 219:7 cut 132:21 CV 1:8 20:15 cycle 216:4 216:14 cycles 215:24 246:14	Cynthia 12:7 192:17 <hr/> D <hr/> daily 86:2,17 86:17 87:11 172:14 178:25 180:25 181:13 212:15 dancing 127:23 dangerous 94:5 dark 219:9 data 74:25 75:3 83:25 84:3,23 134:19 139:17,22 140:5,11 154:3,5,7 155:6 165:20 166:10,20 172:23 182:17 200:10,14 203:17,22 203:23 205:10,11 229:4 246:22 date 21:15 47:9 70:24 98:25 111:5 126:10 144:25 150:11 198:25 dated 21:12 130:19 148:20 161:2,4 218:13 239:4 dates 195:24 David 190:11 190:12 day 86:19,20 92:11	158:23 172:14 178:20 181:10 215:17 216:17 217:13 233:2 247:7 249:20 days 133:2 171:25 172:17,19 172:21,23 173:15 225:24 226:3 230:13 236:23 DDMAC 175:11 de 211:13,17 214:7,16 DEA 29:23 78:20,21 116:20 deal 98:15 dealing 123:10 133:6 dealt 129:3,4 deaths 167:24 debate 71:9 144:4 146:7 201:22 debate's 202:3 decade 133:14 December 7:13 110:21 111:3 126:2 126:5,7,11 155:6 156:17,18 156:22,23 157:4,5,20 157:20 188:24 decide 59:4 106:7 decisions	109:16 decrease 47:21 deemed 67:14 deeper 179:11 deeply 71:16 defend 110:11 Defendants 1:11 define 34:9 Definitely 246:3 definition 95:20 168:11 203:3 definitions 58:11 95:24 96:15,25 98:5,7 127:22 definitive 86:14 124:22 definitively 140:17 degree 5:13 36:10,20 45:21 113:23 delayed 114:9,14 117:24 152:2,16 153:8,15 156:2,13 159:24 160:7,10 162:13 163:19 164:5,12 223:11 delivery 122:14 demands 21:10 218:24 demonstrate 57:12 59:14
---	---	--	--	--	---

61:7 185:16 demonstrat... 41:8 118:23 Deneau 154:18 Dennis 226:22 department 3:16 49:13 108:11 227:10,10 237:22 departments 109:24 depend 40:21 206:18 dependence 6:3 31:21 31:22 57:5 57:9,13,16 57:21,23 60:19 66:7 95:17,20,25 96:9 111:18 112:15,16 112:25 113:9 122:24,24 123:2,9,10 123:13,13 123:16,24 124:2,4,23 124:24 127:5,8,9 128:2,7,8,9 128:10 132:22 133:19,24 135:2,4 144:5 148:18 149:4 162:12 163:17 168:25 169:4,7,10 170:5,12 172:5 191:5 203:7 209:11 243:25 244:2	dependency 26:22 27:7 30:12 208:25 209:3,3,5 209:14 dependent 50:25 57:25 144:6 170:25 depending 203:9 depends 39:13 46:16 102:9,9 132:11 178:25 181:21 216:20 233:11 deposed 25:14,18 deposition 1:16 20:7 20:10 21:4 24:19 25:15 25:17 59:2 67:14 149:20 249:11,13 250:4 deputy 11:22 13:2 describe 37:9 42:6 99:4 described 10:10 29:21 130:9 186:19 230:2 246:22 describing 228:10 description 127:17,18 223:19 250:2 251:2 252:2 descriptions 244:6 design 15:20 20:17	185:24 designate 67:13 designed 63:14,18 designs 109:7 desirable 77:17 desire 219:16 desperate 89:3 despite 131:18 175:5 detailing 134:13 detect 57:14 determine 19:19 45:6 47:14,17,18 112:8 131:8 132:6 240:18 determined 35:15 determining 182:4 deterrence 45:9 detoxificati... 244:7,8 develop 50:24 56:13 58:14 81:21 171:8 209:3 209:6 210:6 223:18 231:10 developed 19:7 31:22 48:18 49:13 49:20 58:8 82:7 106:18 109:17 developing 73:25 74:9 74:19 development 9:5,10,13 10:3 11:11 11:12 33:11 49:11 130:8	131:20 174:4 194:4 194:8,24 196:8,17 197:13 200:8 218:10 220:10 229:23 devoted 26:2 diabetes 144:8 diagnose 58:9 diagnoses 149:3,8 diagnosis 58:17 61:2 61:6 106:5 106:6 127:21 diagnostic 33:10 59:10 60:16,20,23 124:6 229:16 diarrhea 171:11,22 diary 21:20 dichotomy 35:3 difference 38:19 39:17 50:17,18 64:13 81:4 81:6 85:17 86:23 102:12,13 102:13,15 102:19 118:15 132:7 differences 9:23 64:14 64:16 71:20 84:18 115:23 118:18 119:6 167:23 168:2 169:13 243:25	different 9:18 11:7,9 34:15,15,16 36:4,10 38:2 39:15 40:18 42:10 50:4,8,19 51:10 52:7 56:6 57:8 65:21 72:8 72:9 82:25 97:12 98:7 98:17 127:24 134:9 140:5 140:13 142:17,20 142:20 156:10 159:19 165:12 174:13 differentiate 137:11 differently 48:16 104:22 107:23 108:2,12 difficult 56:7 58:23 89:16 121:17 139:6 141:8 142:25 179:13 185:6 242:22 243:2 difficulty 34:14 186:22 202:21 dilemma 58:6 231:12 dimensions 106:13 direct 20:14 67:15 103:25 160:20 168:18 170:9	171:14 184:22 197:5 198:21 directed 116:19 167:13 Directing 228:19 direction 72:19 107:3 120:13 140:6,13 directly 31:15 63:19 64:4 239:8 239:19 243:14 director 9:3 11:6,9,22 13:2 18:14 66:17 67:21 67:23 68:17 192:3 directors 55:7 disability 106:14 disadvantage 157:23 disagreement 142:22 disagrees 201:3 disappear 171:25 disbelieve 74:7 disciplined 24:9 disclosing 25:2 discontinua... 180:14 discontinua... 180:9 discontinue 59:15 discontinued 170:19,24 171:16 179:22
---	---	--	---	--	--

<p>discuss 66:21 83:25 127:2 149:19</p> <p>discussed 25:3 56:11 76:5 93:7 95:17 105:20 108:22 144:22 157:16 158:24 177:20 185:5 201:22 206:17 211:24 215:2 225:18 227:6 232:19</p> <p>discusses 80:13 169:15,16</p> <p>discussing 74:13 79:7 80:19 87:16 168:22 198:8 216:19 237:4</p> <p>discussion 21:25 79:4 79:14 87:15 87:21 95:19 96:12,20,24 99:8 101:17 102:23 115:10 168:13 185:9,12 187:10 188:13 189:4 190:2 194:21 197:11 204:10 218:22 220:5 228:21 231:4 232:15</p>	<p>234:18 243:23 250:13</p> <p>discussions 43:25 65:15 74:13 87:19 88:24,25 116:11 129:24 168:7 185:13 237:6</p> <p>disease 58:11 89:24 90:9 137:17 230:19 231:17</p> <p>disorder 58:19</p> <p>disorders 58:9,15,15 58:16,16,22 143:7</p> <p>dispensing 28:2 190:22</p> <p>dispositive 133:11</p> <p>dispute 46:7</p> <p>distinct 56:2 56:25 57:6</p> <p>distinction 32:11 116:17 132:2 141:25</p> <p>distinguished 6:5</p> <p>distortions 203:17,19</p> <p>distribution 31:25 174:12</p> <p>DISTRICT 1:2,3</p> <p>disturbances 171:23</p> <p>diversion 38:3 191:21 193:8,25 194:11 195:14 196:14</p>	<p>197:12 199:14,20 199:25 200:3</p> <p>diverters 38:5</p> <p>diverting 38:4</p> <p>division 1:4 11:23,24,25 12:3 18:14 19:8,14 62:4,4 66:17 67:22 68:17 70:6 88:7 92:21 97:12 100:10</p> <p>divisions 71:20 72:2 72:4,5,9</p> <p>dizzy 51:22 81:6</p> <p>doc 239:10,21</p> <p>doctor 144:21 147:18 207:4 211:12 212:4 213:17 214:15,22 232:7</p> <p>doctors 8:14 158:13,15 217:22 218:24 237:6 243:16</p> <p>document 19:2 20:11 21:10 67:2 79:18 80:3 84:5 98:19 111:15 125:9 130:9 153:21 160:18 161:20 162:19,25 165:13,24 166:25</p>	<p>184:14 188:11 192:13 193:4 195:9 197:3 210:25 214:4 218:4 227:23 231:24 233:25 235:21 238:10,25 250:5,7,9 250:11,16 250:20,22 251:4,6,8 251:13,15 251:17,19 251:21,25 252:4,6,8 252:10,12 252:14,16 252:18</p> <p>documenta... 233:22</p> <p>documents 20:16 21:4 21:9 24:4 64:10 68:19 68:21,23 108:5 221:18</p> <p>doing 6:13 30:7 32:18 33:9 82:22 100:5 133:20 142:19 143:23 165:4 210:20 214:15,23</p> <p>dominate 59:19</p> <p>dominates 217:2</p> <p>Don 43:17,17 43:19 80:7 237:11 241:11</p> <p>donald 3:6 43:11</p>	<p>done 4:17 42:7,21 47:11 50:5 50:6 72:7 75:3 80:6,6 91:16 97:3 110:6 117:23 118:25 119:4,10 120:12,12 120:13,15 120:19 121:2,14 122:20 136:13 139:6 147:12 148:2 191:12 202:6,9 205:3,20 237:13</p> <p>Don's 79:21</p> <p>dosage 36:3,7 36:8,23 39:6 48:17 52:6,7,11 52:25 53:2 53:7,8,13 53:14,16 64:20 71:24 77:16 103:20 116:3,5,19 116:22 117:14,17 118:10,12 119:12 120:16 121:11,13 122:15,16 150:25 151:8 156:8 156:9 177:23 178:15 225:3,4 243:24</p> <p>dose 36:24 37:2,22 54:4,7,9,10</p>	<p>57:14 59:11 61:7 86:3,5 86:6,12,12 86:17,17 87:5,11 92:3 101:20 104:16,18 104:25 105:5 122:18,20 138:6,8 172:14 173:2 177:12 178:25 179:3,4 181:23 203:20 211:22 212:7,15,23 213:25 214:2 215:12,16 216:23,24 217:7 229:3 230:5 234:15 236:6 244:15</p> <p>dosed 85:19 86:23 178:3 178:5,20,22 178:24 182:13,15 182:18,22 183:22 184:4,9,11 213:18</p> <p>doses 40:15 40:16 42:25 43:2 50:15 50:19 53:25 64:21 122:19 150:23 212:4 217:11</p> <p>dosing 85:23 185:17 186:20,21 187:4,6 211:18,25</p>
--	--	--	---	---	--

212:3 doubt 99:13 185:12 Doug 4:8 11:17 162:3 162:4 DOUGLAS 2:6 down 63:11 78:8 91:21 129:17 139:12 167:21 170:20 194:6 223:21 225:12 downloaded 199:11 downside 93:9 Dr 4:7 5:10 8:23 12:7,9 12:12 16:21 16:23 17:6 17:8 20:8 21:5,16 22:12 23:8 23:19 41:24 43:23,25 44:2,6,7,8 55:2,4,10 66:18 67:15 69:16 73:24 75:13 79:21 80:9,15,18 87:17 88:6 88:13 91:24 92:8 95:9 95:14,19,23 98:23 99:7 99:8,12 100:13 104:9 108:4 122:21 136:14,16 140:16,16 145:19 149:22,23 150:4 161:7 163:8 184:23	185:9,9 188:21 189:23,24 190:5,15 198:10,10 202:6,6 208:4,10 211:3,17 214:7,16 215:20 228:20 229:25 234:8,19 235:11 236:8 238:18 239:5 241:22 draft 84:11 84:12 150:11 160:22 197:7 draw 83:23 139:18 drawn 165:20 dredge 164:24 dredging 164:21 drifting 107:2 drives 222:15 dropouts 179:19 dropped 120:2 Drs 130:23 131:2 195:5 drug 3:16 6:3 6:12,13,20 6:22 10:9 13:4 14:11 14:15 15:4 15:5,19 18:24 19:5 19:8,14 21:24 26:11 26:13,16,21 27:4 29:20 32:16,20,21	33:6 34:8 34:20,21,23 34:24 35:4 35:13,16,20 35:23,24 36:12,13,13 36:19,21 37:12,18,20 37:24 38:4 38:5 40:13 40:17,20 41:8 42:17 42:18,20,25 43:3 45:4 45:17,19 46:13,18,20 47:7,10,12 50:11,12,23 51:5,5,18 51:18 52:6 52:7 53:15 54:2,2,5,7 56:12,19 57:2,2 59:3 59:5,10,15 65:14 66:4 66:6,10 67:22 71:5 71:23 72:3 74:18 77:14 77:21,24 78:8 81:24 81:25 83:8 83:14 84:24 86:10 88:22 90:3,5,20 90:21 91:4 91:11 92:19 93:12,23,24 94:4 95:17 95:25 96:8 96:22 97:14 98:16 103:13,14 105:21 106:8,17,18 106:24 108:11 111:18 112:15,16 112:24 113:8 114:6	114:6,11,16 114:19 115:20 116:22,23 116:24,24 117:2 118:13 119:14,15 120:4,4 122:3,19,23 122:23 123:8,9,9 123:12,16 125:18,21 125:23 127:4 129:6 132:21,24 132:25 133:24 134:10 136:24 139:18 148:17 149:3,3,4 149:15 152:5,10,18 152:22 153:14,24 154:10 156:4,14 162:11,12 162:15 163:17,22 164:14 165:23 168:3,11 170:11 174:4 176:18 177:2,12,13 177:15,24 178:12,20 181:19 182:6 185:18,22 185:23 186:7,12,19 186:20,21 190:17 193:14 194:22 203:7 204:4	204:5,6,8,8 204:12,17 205:17 206:23 207:20 209:2,4 212:24 213:25 214:2 215:24,24 215:25,25 216:2,4,4,4 216:5,5,14 216:24 223:9,14 227:14 229:10,13 230:23 231:2 233:14 243:13,17 244:4,9,11 244:19 246:9,13,13 246:19 drugs 6:10 12:4 14:16 14:21 16:4 27:21 29:20 31:15,24 32:2 34:6 36:5 38:19 42:22 44:10 44:19 46:21 46:23 47:4 47:18,23 50:13 51:24 52:22 58:23 64:24 73:5 73:6 83:3 89:22 90:6 90:6,24 91:8,10 97:7 98:10 113:5 118:10 123:15 127:12 131:16,19 133:7 134:14 137:9,11	138:10 155:16,16 157:24 158:2,9 159:10,17 159:18 160:5 175:15 177:6,7 178:13 182:7 185:23 223:11 224:15 233:19 237:5 drugstore 31:16 drug's 35:5 36:14 drug-liking 53:12 drug-seeking 120:5 123:23 132:14 139:9 DSM 58:8 60:15 due 40:18 91:15 180:14 214:12 Duffy 11:19 duly 4:3 95:6 249:12 duration 138:6 172:16 177:12,13 182:4 during 9:9 14:21 22:11 26:6,19,22 43:16 44:11 55:8 74:19 88:21 98:9 112:23 137:20,20 157:12,16 158:7,25 171:19
--	---	--	--	--	---

174:3 193:12 duties 11:9 dysphoric 43:5 D.C 2:5 3:10	85:24 92:8 118:24 120:4 178:3 182:4 185:21 216:5,13 246:13,19	emerge 46:21 117:16 emergence 168:10 emerging 88:20 117:2 emitted 101:20 employee 71:16 employees 6:24 encourage 113:3 end 127:22 133:20,21 141:11,13 141:15 143:11,19 149:19 155:23 168:23 186:2 187:11 ended 132:20 ending 76:13 101:13 103:22 111:19,19 127:3 133:21,22 135:22 154:8 160:21 163:16 170:5 193:24 195:15 ends 140:19 Enforcement 193:14 engage 198:15 enhanced 116:6 enough 13:18 41:17 68:25 72:13 146:5 172:9 178:17 181:20 238:8	enroll 52:8 93:11 enrolled 5:16 172:12 180:7 230:16,18 enrolling 89:10 enrollment 92:25 entertained 110:15 enthusiastic 74:22 entire 91:5 218:10,10 220:11 221:10 entirely 72:3 entity 45:24 105:7 154:12 186:23,25 187:13,19 187:21,23 enumerated 20:16 epidemiology 26:8,9 episode 132:14 equal 86:17 equally 193:16 equals 62:11 62:11,12 82:21 equianalge... 150:23 178:3 equivalent 40:15,16 154:20 177:19 especially 29:20 121:22 181:23 236:12 ESQ 2:6,10 2:15 3:6,7 3:11,14,16	essentially 51:16 202:23 establish 133:6 200:11,15 established 203:2 205:24 et 20:19 173:7 ethical 229:11 ethically 138:25 ethics 94:11 etorphine 41:4 eudragit 101:25 102:10 euphoria 61:11 62:21 63:3,7 European 89:13 evaluate 19:9 evaluation 67:22 even 45:19 63:17 68:17 72:11 73:5 78:10 122:3 139:17 146:3 177:11 181:3,6 182:19 198:16 201:6 221:4 event 142:18 157:25 167:13,18 168:10 173:25 175:4 200:25 201:2 241:8 241:19 events 32:25 82:2 134:14 173:19	174:21,24 ever 14:5 20:2,10 22:24 23:12 24:9 26:12 26:15 34:12 38:18 41:13 43:11 55:22 60:3 63:20 74:8 75:12 78:18 79:7 101:21,24 107:24 109:4 114:22 130:21,23 131:2 139:8 159:21 184:7,8,9 192:4 196:22 211:5,7 215:3,12 218:7 226:24 237:3 every 48:21 92:18,19,21 108:25 133:13,14 165:13 212:18 everybody 8:21 106:4 107:3,5 190:6,7 everybody's 208:17 everyone 58:2 92:21 everything 122:14 everywhere 92:21 evidence 116:2 118:7 132:15,21 149:13 152:14,15 202:3 203:24 217:14
--	---	--	--	--	--

233:12 evidentiary 132:22 evolution 31:13 32:4 exact 146:9 exactly 24:20 76:10 82:12 122:16 140:6 158:6 186:18 203:18 222:14 EXAMINA... 4:6 95:8 241:21 245:7 examine 30:2 112:7 examined 4:4 15:19 95:7 129:13 131:7 137:3 165:16,17 224:14 examines 165:18 example 31:2 42:22 45:16 64:18 222:18 examples 117:18 221:13 exciting 10:11 49:3 75:3 exclude 92:15 excluded 92:2,20 exclusion 91:21,24,25 92:5 exclusively 209:21 execution 20:17 executive 9:3 11:6,8 192:2 exercise 215:16	exhausted 55:7 exhibit 20:6,9 66:25 67:9 79:12,17 80:2 84:4 87:13,14 95:10,11 98:18 101:2 101:3 102:2 110:20 111:14,19 125:5,8 130:14 148:14,15 150:12,14 153:20 160:12,16 160:17 162:24 165:2 166:13,14 169:20,23 184:13 188:5,10 192:12 195:8 197:2 198:19 199:9 210:24 213:9 214:3 218:3 227:22 231:23 233:24 235:20 238:9,24 244:22 250:3,5,7,9 250:11,13 250:14,16 250:18,19 250:21,23 250:25 251:3,5,7,9 251:11,12 251:14,16 251:19,21 251:23,24 252:3,5,7 252:10,12 252:14,16	252:18 exhibits 67:13 108:23 exist 202:22 existence 31:11 existing 244:3 expect 133:25 208:2 226:13 246:19 expected 195:20 experience 27:9,11 28:14 49:14 49:17 62:5 158:2 221:13 experiences 26:11 180:6 experimental 50:20 expert 68:20 143:22 147:4 152:13 177:4 190:12 206:23 226:18 expertise 19:17 65:23 experts 150:2 expired 21:6 explain 18:19 27:17 29:14 35:2 53:22 68:24 99:21 155:22 explained 238:20 explaining 115:24 119:6 explains 223:23 exposed 179:24 180:2	expository 96:6 128:23 exposure 36:13 172:13,18 172:20,22 expressed 174:15 expressing 228:21 extended 107:7 extensive 115:10 168:13 243:23 extensively 96:10 extent 47:19 96:6 extra 243:12 extremely 159:9 ex-addict 150:20 e-mail 188:20 189:21 192:8 228:10 e-mails 23:12 <hr/> F <hr/> F 95:2 249:2 faced 135:5 facilities 143:13 facility 26:20 121:25 fact 88:6 123:6 124:23 133:3 138:2 138:5 158:3 205:24 207:5 220:6 228:13 244:10 factor 36:24 37:11 102:6 factors 35:15 35:21 134:15	facts 219:7 failed 10:16 failure 230:21 fair 13:18 19:20 41:17 96:24 118:6 172:9 227:13 238:8 fairly 54:7 97:22 98:2 122:25 129:13 145:10 206:11 219:15 227:15,15 faith 68:23 fall 233:16 false 151:22 244:23 245:3,8 familiar 35:8 97:22 98:2 128:13 129:16,18 129:22,23 136:9 146:24 147:3 194:18 212:18 family 26:23 far 115:23 118:3 146:20 222:3,24 224:16 240:7 fashion 50:16 fast 37:10 faster 39:5 119:24 favor 195:22 196:11 FDA 8:2,4 10:2 11:20 12:16 13:5 13:13,16,18 14:2 15:20 16:5 17:22	20:25 21:16 22:22 23:21 23:25 24:5 24:8 43:18 49:7 78:3 98:11 104:9 104:10 108:4,7,8 108:16 110:17 139:18 156:22 157:7,9 162:17 165:25 166:6 176:22 182:16 189:4,16 194:15 201:3,12 204:16 223:8 228:6 228:11 FDA's 88:25 federal 33:21 feel 5:7 48:15 51:20,23,25 211:23 212:5,8,16 212:25 feeling 5:4 164:20,22 164:23 feelings 202:20 fellowship 6:2,4,22 felt 10:18 78:21 90:14 112:24 174:13 Fentanyl 41:4 few 73:5 102:25 122:2 133:19 172:16 173:9 187:5 225:24 226:3
---	---	--	---	--	--

230:12	first 4:3 9:11	149:22	117:14,17	fortunately	10:21 15:7
232:10	17:20 19:5	folks 136:14	121:12,13	99:25	16:25 17:8
236:23	44:11 67:16	188:21	122:11,15	forward 90:3	18:15 21:24
241:18,22	84:12	224:14	122:16	116:5	23:13,18
field 218:11	109:23	follow 30:5	142:9	157:17	25:11 31:16
220:11	112:15	73:19	150:25	178:14	33:22 34:2
fields 221:18	121:10	138:22	151:8 156:9	205:2	35:8 45:20
figure 15:8	122:8,13	234:23	156:9	found 82:4	51:14 52:7
92:23	125:13	followed 24:7	159:15	150:14	54:2 56:2
210:11	154:9	30:20	167:8,10	177:18	56:18,25
240:7	160:21	138:14	168:5	178:22	57:6 62:3,4
filed 100:11	167:6,9	following	177:23	179:6,9	62:5 64:12
154:7	171:19	51:21 69:13	178:24	195:23	67:17 68:4
files 15:14	177:21	69:16 73:15	204:19	196:12	71:18,24
24:4 120:11	190:24	171:3	205:13	199:21	72:18 83:7
131:7	191:4,13	222:18	207:22	202:7 207:9	83:23 92:15
fill 141:7	196:15	246:23	224:18	207:14	96:10 98:11
filling 141:6	211:4 228:4	248:5,6	225:3,4	208:5,10	98:13,14
final 148:8	239:12	follows 4:5	233:6 237:7	four 15:2,8	103:17
151:11	Fishbain	95:7	237:12,16	24:24 42:4	106:10
165:21	128:13,17	follow-up	formed 230:2	42:10 44:11	108:12
174:18	128:18,20	148:5	former 42:18	50:3 71:24	113:13,22
229:19	148:16,17	font 124:16	forms 36:7,8	86:19	128:16
finally 18:11	Fitzmartin	Food 3:16	39:7 48:18	116:16	129:6,25
find 8:14	185:9	6:20,22	52:12 57:16	131:12	132:13
17:15 27:11	five 7:11	10:9 71:5	64:20 77:16	181:24	134:20
42:16 43:6	24:25 42:5	88:22	103:20	236:24	139:3
59:8 126:24	42:10 50:3	152:22	116:5,19,22	fourth 69:12	140:22
126:25	116:16	force 218:11	118:10,12	194:6	143:4,24
133:9,17,23	163:15	220:11,24	119:12	four-year	144:10
134:5 135:9	168:21	221:11	120:16	5:17	145:17
139:4	172:18,21	forced 177:9	178:15	FRANK 2:10	148:7,8
144:14	172:23	204:16	216:24	frankly	161:7,20
161:10	five-minute	Forever	formulate	115:11	162:19
177:11	241:17	215:17	30:4	130:10	165:15,21
178:19	florid 57:19	forget 99:25	formulated	134:24	166:14
183:20	Flumere	forgive 223:2	36:6	frederick 1:9	172:3,13,15
209:24	211:13,17	form 13:9	formulation	3:4 16:4,12	172:16
221:23,23	214:7,16	17:25 31:6	39:14 46:6	88:10	175:6
229:9	focus 40:10	33:25 36:3	47:19	frequencies	176:18,20
finding 178:2	56:21 67:5	36:23 37:3	154:25	136:11	179:8,22
findings	101:12	52:6,7,25	155:8	frequency	180:4
60:23 70:11	111:17	53:2,7,8,13	167:19	135:2,3	184:20
fine 46:12	169:25	53:14,16	formulations	172:24,25	188:20
111:2	192:10	61:23 68:10	39:15 75:24	173:3,4	189:23
finishing 6:21	focused 47:16	71:24 83:15	167:15	frequent	203:15
fire 219:10	105:15	96:18	forth 66:3	172:22	206:8 218:9
Firing 219:8	focusing	104:16	152:21	frequently	222:25
firm 7:18	69:11	105:24	160:25	60:7	224:16
17:14 167:2	folder 226:14	113:17	164:16	FRIEND	225:15
firms 17:18	227:3	115:20	201:15	2:13	234:7 237:2
22:5 100:11	Foley 141:17	116:3	249:12	from 5:13 6:6	240:17

246:13 front 83:25 124:14 full 92:3 184:24 229:23 function 18:21 90:11 197:15 functional 67:23 functionality 106:20 functions 18:21 fundamental 86:7 funded 6:12 funny 176:18 further 95:7 105:12 159:8 182:8 225:12 233:10 247:2 249:15 future 70:6 fuzzy 51:22	151:17 158:8 168:8 176:23,23 195:21 196:19 198:14 201:5 203:7 203:14 210:16 generalized 109:12 generally 5:4 18:16 27:20 42:6 49:25 61:8 63:9 67:16 152:9 177:9,20 generation 133:14 genericize 191:2 genericizing 190:25 191:9,14 generics 72:4 genre 139:11 genuinely 238:22 George 5:16 gets 106:12 125:17 208:20 getting 40:13 100:24 116:15 209:16 210:16,21 212:24 218:25 222:24 237:14 gist 4:21 give 4:14 17:5 25:7 31:2 37:23,24,24 51:16 53:24 57:11 76:16 86:25 100:9 111:9 140:3 174:9 179:16 182:23	213:8 214:14 220:3 231:11 given 62:18 73:2 76:21 79:23 86:18 86:19 122:17 146:3 180:19 197:15 215:3 249:14 givens 59:16 gives 70:2 giving 50:14 85:24 108:20 109:8 210:8 212:14 213:25 214:2,18 go 5:7 10:17 19:12 22:14 28:11 31:8 35:21 42:12 52:17 56:13 68:11 72:7 106:14,14 106:14,15 115:24,25 118:3 120:11 129:17 141:5 144:11,12 144:13,16 164:15 209:13 214:12 227:9,18 233:9 goal 9:24 73:14 78:7 83:17 191:19 God 166:3 goes 105:19 202:12 216:13 going 4:9	16:11 36:21 54:3 58:22 59:13,14 67:4,5,7,25 70:16 71:6 76:18 87:12 90:19 91:17 96:8 100:15 104:8 110:18,20 111:17 116:17,23 117:3,5 125:4,6 131:5 135:7 136:19 141:15,19 143:20 144:13,15 144:16 147:18 160:13 169:25 184:22 186:10,17 195:11 205:2 206:21,25 211:4 213:17,19 216:18 218:23 220:15,17 221:12 227:7 240:8 240:23 241:11 gold 46:17 gone 139:25 good 4:7 50:25 59:9 59:20 66:9 68:23 72:10 72:11,16 75:5 82:8 95:9 98:4 106:9 141:3 162:18 167:14,19 185:4 191:12 203:5 206:2	208:20 210:17 222:18 gooseflesh 171:18 Gotcha 70:15 91:19 123:12 192:4 gotten 10:19 117:8 govern 35:16 government 24:6 33:21 70:5 130:12 145:7 198:6 210:18 215:7 go-around 197:19 grants 14:12 gratuitive 89:12 great 35:22 57:14 58:10 90:3,20,21 98:15 greater 30:17 71:11 142:6 195:20 208:19 209:5 214:14 greatest 88:5 190:10 GREENVI... 1:4 ground 134:23 group 64:5,8 97:15 123:10 142:2 210:9 210:13,14 212:20 214:8 229:14,15 groups 87:10 113:23 139:24 206:19 group's	144:11,14 grows 32:8 guess 12:17 17:8 25:22 32:10 35:2 35:19 40:11 45:16 80:10 81:14 88:5 93:18 103:11 107:10 112:17 126:20 127:15 130:19 150:10 157:22 173:18 180:3 184:24 194:5 198:21 202:11 227:3 235:3 235:13 236:3 240:8 guidance 68:19,21,23 117:4 140:3 158:17 guidances 88:23,24,25 91:8 93:5 206:8 guide 15:16 211:18 guidelines 29:24 30:20 33:15,21,22 124:19,21 124:22 129:24 130:3,6 133:4 143:16,16 143:18 144:22 145:2,8,9 145:11 150:5 207:13 243:21,21
G					
gain 216:5 game 21:5 214:13,19 gaps 49:18 Gather 219:7 gave 81:10 117:18 119:14,15 187:8 geared 220:20 general 5:19 5:21,25 11:10 19:18 26:3 27:10 37:20 42:15 44:11 50:5 73:24 77:15 107:15 108:17 110:11 119:17					

guys 237:24	67:20,21	101:21	134:3	123:15	hydrochlor...
H	HAUSMAN	164:6	172:25	127:11	118:15
H 234:11,14	2:3	heart 171:12	186:24	223:10	hydrocodone
234:24	Haverford	241:7	207:19	hoffman 3:11	44:4,20,24
236:3 250:2	5:13	heavily 97:19	higher 13:15	25:10	45:2,12,14
251:2 252:2	having 4:3	held 69:8	28:4 38:10	honestly	45:22,23,24
Haddox	15:8 42:23	101:6	38:11,16,17	16:23 158:6	46:3,4,5,9
189:23	46:10 72:8	help 35:2	38:18,20,23	hook 223:18	46:24 47:7
190:11	95:6 103:4	37:7 88:17	40:3,6,24	hop 102:4	47:9,14,25
198:10	110:16	184:16	46:22	hope 81:16	78:11,23
half 9:11	126:20	199:4	119:22	174:5	177:5
47:11 182:9	132:20	200:13	135:15	hoped 83:20	hydrocodo...
222:20	141:13	211:21	136:3,12	Hopkins 5:23	78:4
half-life	181:11	218:6	202:8 208:2	26:5,6,23	hydromorp...
182:7	185:8,11	221:17	210:5,10	43:9,16	41:4 46:23
hallucinating	199:16	232:2 234:3	242:21	hospital 5:20	53:3 131:18
81:6	214:13	234:11,23	highest 45:3	137:14,16	190:20
hand 249:20	232:15	235:14	highly 190:18	137:18,24	hypodermic
handed 20:8	234:20	helpful 62:9	202:10,11	138:15	31:18
handle 15:13	Hayes 66:13	81:20	202:14	141:5	hypothesis
49:8 71:6	162:2	151:18,24	231:7	234:16	82:14
hands 64:6	HCRP	helps 84:3,7	him 8:15,16	hospitalized	I
handwriting	129:24	hence 74:23	8:16 14:19	131:9 137:2	IAAA 203:12
199:7	head 8:23	HENNEBE...	17:10,16	202:17	iatrogenic
handy 84:15	62:24 72:17	3:7	22:17 81:8	hospitals	123:21
169:18	72:17	her 12:11	81:10 87:22	131:19	128:6 130:4
happen 9:17	120:18	23:6,11,13	88:2 104:4	134:3 137:3	133:12
28:10 29:14	121:12,12	211:21	104:7 109:4	hour 177:7	135:2,4
63:16	140:25	214:22	109:8	177:15	139:20
141:16	246:21,21	239:6	111:25	211:22	144:5,23
happened	headache	hereinbefore	112:11	222:21	146:7
48:14	109:14	249:11	146:15	hours 24:25	203:25
228:11	head-to-head	hereunto	226:24	71:24,24,25	209:7 242:2
happening	48:6 122:10	249:19	231:11	71:25	242:9,13,15
30:24 115:7	health 3:16	heroin	238:20	171:20,21	243:7,9
happens	5:15,24	134:20	hired 221:8	176:13,14	244:5
138:23	26:2,4	190:20	history 28:5	181:24	ICAH 10:2
143:10,19	37:21	herpetic	30:3 31:8	216:2 220:5	ICH 88:23,24
hard 38:25	145:17	104:20	33:10 46:16	house 8:15	icons 132:25
130:20	healthcare	105:14	92:13 93:11	housed 64:5	133:2
144:12,13	29:23 33:20	heterogenei...	131:14,21	Houston 2:14	idea 26:18
174:25	141:11	98:16	137:13	huge 49:18	44:17 54:19
191:25	142:16	he'll 4:16	150:8	human 3:16	76:17 81:9
212:17	145:5,10	he/she 92:2	190:18	41:11,12	81:15 82:11
234:20	210:15	high 31:21	209:10	42:8,9	122:3
harder	hear 37:8	32:2 42:23	210:6	150:17	162:18
119:12	61:20	45:21 50:14	243:13,17	154:5,18	180:12
210:22	220:13	51:17 54:7	244:14	hundred	185:5 198:2
Harold	heard 34:12	54:10 59:11	his/her 219:6	133:16	238:21
234:24	55:22 60:10	81:4,9	hit 219:11	hurt 125:2	identical
Harter 67:18	61:25 63:20	100:4	221:24	hydro 238:19	112:13
	88:16	133:21,24	hoarding	239:10,20	

122:14 identification 20:6 66:25 79:17 80:2 84:4 87:14 95:11 98:18 101:3 111:15 125:9 130:15 148:16 153:21 160:18 162:25 165:3 169:24 184:14 188:11 192:13 195:9 197:3 198:20 210:25 214:4 218:4 227:23 231:24 233:25 235:21 238:10,25 250:3,5,7,9 250:11,13 250:14,16 250:18,19 250:21,23 250:25 251:3,5,7,9 251:11,12 251:14,16 251:19,21 251:23,24 252:3,5,7 252:10,12 252:14,16 252:18 identify 103:17 121:6 241:5 II 35:4,7 46:3 46:9 77:24 108:18 109:2 113:12 154:15,17	193:17 244:11 III 45:17,19 46:5,6,10 77:25 78:10 193:17 imagined 49:24 immediate 39:6,8 52:25 53:8 53:14 54:21 63:3,7 83:13 85:25 86:3 105:7 121:6,9,13 122:11 157:6 159:14 167:11,19 174:2 175:5 175:15,22 176:3,17 178:4,23 179:6 183:7 183:11 184:2,4,10 186:25 187:13,24 215:21 224:5,11 225:7 232:22 233:5 245:2 implicated 131:16 implications 178:15 importance 88:5 important 4:19 14:13 18:21 28:24 103:21 112:24 117:3 158:12,15 165:24 166:2 192:10 198:2 impose 13:14	imposing 71:11 impossible 138:25 210:12 impressed 211:19 impression 174:9 187:8 229:13 improperly 29:6,8,11 29:15 31:3 32:12 improve 14:10 47:21 58:17 90:8 90:11 improved 232:18 inaccurate 217:17 222:6,7 inappropri... 72:21,23 94:3 100:12 221:19 231:21 INC 1:9,10 3:4 incidence 131:8 195:19 200:11,15 205:10 inclined 19:11 include 32:14 33:17 96:15 159:24 164:11 246:24 included 109:20 185:24 245:10,12 includes 181:13 including 25:25 47:20 95:20,24 125:15	171:4,9 incorporated 69:17 174:17 193:4,7 increase 47:22 117:20 171:20 187:25 increased 94:3 119:22 119:24 171:11 187:19,22 187:24 209:23 increasing 54:3 116:2 IND 65:13 69:3 70:19 100:2 indeed 68:16 independent 8:12 indicate 232:14 indicated 14:4 89:23 91:8,10,13 109:15 130:3 147:22 176:8,9,12 193:12 205:20 indicates 137:22 indication 72:18 91:12 225:23 231:19 237:25 indications 90:16 230:3 individual 15:13 30:9 33:3 40:19 40:22 57:2 57:3 61:5 68:16,16 70:4,4	179:24 individuali... 243:23 individualize 244:15 individually 22:4 individuals 27:6 56:11 57:17 62:14 65:12 88:7 130:2 135:14 141:7,10 142:24 208:13 individual's 58:20 industry 7:15 15:14 43:18 61:17 71:11 158:21 221:5 ineffective 180:8,15,22 infer 83:7 203:14 232:17 240:21 inference 236:10 inflammati... 106:15,19 influence 103:18 influential 210:18 information 19:5,6 67:13 110:3 110:12 126:21 145:21 157:22 165:14,15 166:21 191:18 195:19 informed 184:24,25 189:11 infrequently	46:15 ingest 37:2,10 37:10 ingrained 71:17 ingredient 190:16 inhaled 36:6 116:12 117:19 inherent 151:19 initial 19:4 70:22 161:13,14 161:20 initially 153:24 154:7 179:25 initiate 30:5 initiation 33:12 240:11 initiative 9:25 49:7 initiatives 14:10 inject 38:14 injected 52:8 120:15 injecting 46:20 injury 140:25 Innaurato 104:2,3,12 104:17,21 105:11 107:22 input 189:12 197:21 insert 17:24 18:6,8,10 18:17,20 62:25 97:2 109:21 125:12,15 126:22 127:13,17 151:19 152:7 160:23
--	--	---	--	---	---

161:11	instructed	interior	114:19	20:21,23	101:1 102:1
174:6,7	24:2	188:15	120:21	82:2	103:1 104:1
197:8 223:8	instructing	internal	121:5	iterations	105:1 106:1
227:12	78:12	101:7	140:16	152:21	107:1 108:1
237:9	instructions	internship	in-house	IV 1:16 4:1,2	109:1 110:1
241:25	24:7 31:18	5:19	190:2	5:1 6:1 7:1	111:1 112:1
242:6	73:15,18	interpret	Iowa 141:21	8:1 9:1 10:1	113:1 114:1
243:10,15	125:15	27:23	IR 71:22 85:3	11:1 12:1	115:1 116:1
243:19	instruments	interpretati...	85:18 86:18	13:1 14:1	117:1 118:1
244:9	204:3	200:18	86:23,25	15:1 16:1	119:1 120:1
245:10,13	integrated	interpreted	168:4	17:1 18:1	121:1 122:1
245:15,19	166:17,19	60:24 81:7	174:10	19:1 20:1	123:1 124:1
246:3,7,21	166:24	interprets	175:19,20	21:1 22:1	125:1 126:1
inserted	167:5	214:19	176:11	23:1 24:1	127:1 128:1
162:16	intemperate	interrupt	177:14	25:1 26:1	129:1 130:1
230:4	191:11	147:19	178:7 186:7	27:1 28:1	131:1 132:1
insight	intend 21:7	interval	186:12	29:1 30:1	133:1 134:1
214:15	intended	182:9	IRB 94:8	31:1 32:1	135:1 136:1
insofar	123:4 230:7	intervals	irritability	33:1 34:1	137:1 138:1
200:19	230:9,15	30:14	171:9	35:1 36:1	139:1 140:1
insomnia	intensities	interview	IR/CR 71:7	37:1 38:1	141:1 142:1
171:10	107:15	8:18 17:17	177:10	39:1 40:1	143:1 144:1
inspect	intensity 91:6	interviewed	229:22	41:1 42:1	145:1 146:1
102:14	105:16,22	8:19,21,22	issue 72:13	43:1 44:1	147:1 148:1
instance	231:18	8:23,25	82:4 92:10	45:1 46:1	149:1 150:1
23:16	intention	intrinsic	108:13,17	47:1 48:1	151:1 152:1
131:16,24	193:15	36:15	108:23	49:1 50:1	153:1 154:1
132:6	intentional	158:11	118:9,19	51:1 52:1	155:1 156:1
133:24	38:5	investigatio...	132:16	53:1 54:1	157:1 158:1
189:14	intentionally	42:21	133:15,15	55:1 56:1	159:1 160:1
192:11	38:4	investigator	134:8	57:1 58:1	161:1 162:1
201:23	interact	41:15 42:2	140:19,24	59:1 60:1	163:1 164:1
instances	36:17	42:4 43:14	146:7,18,21	61:1 62:1	165:1 166:1
25:22 84:17	interacted	44:14 105:9	157:21	63:1 64:1	167:1 168:1
209:8	104:4	investigators	158:21	65:1 66:1	169:1 170:1
235:15	interacting	51:13 57:11	159:3,5	67:1 68:1	171:1 172:1
236:12,16	104:6	59:21	224:15	69:1 70:1	173:1 174:1
instant	interchang...	100:18,23	issues 73:8	71:1 72:1	175:1 176:1
181:19	122:25	103:12	80:21 85:15	73:1 74:1	177:1 178:1
instead 54:2	123:3	139:7 202:9	96:4 128:24	75:1 76:1	179:1 180:1
58:13	interest 43:2	involve 44:4	128:24	77:1 78:1,8	181:1 182:1
115:17	interested	involved	129:4	79:1 80:1	183:1 184:1
152:2	48:20 71:10	40:19 44:14	139:21	81:1 82:1	185:1 186:1
182:13	77:11 89:8	97:18,19	168:23	83:1 84:1	187:1 188:1
201:9 236:9	249:18	138:11	191:20	85:1 86:1	189:1 190:1
239:14,24	interesting	161:18	197:10	87:1 88:1	191:1 192:1
Institutes	110:18	184:3	208:19	89:1 90:1	193:1 194:1
5:14 6:12	141:22	237:25	224:16	91:1 92:1	195:1 196:1
56:19 74:18	interests	245:25	237:5,24	93:1 94:1	197:1 198:1
118:13	46:19	involving	italicized	95:1,5 96:1	199:1 200:1
institutional	interface	27:6 68:20	124:11,15	97:1 98:1	201:1 202:1
94:10	15:13 238:4	70:21 87:23	items 20:14	99:1 100:1	203:1 204:1

205:1 206:1 207:1 208:1 209:1 210:1 211:1 212:1 213:1 214:1 215:1 216:1 217:1 218:1 219:1 220:1 221:1 222:1 223:1 224:1 225:1 226:1 227:1 228:1 229:1 230:1 231:1 232:1 233:1 234:1 235:1 236:1 237:1 238:1 239:1 240:1 241:1 242:1 243:1 244:1 245:1 246:1 247:1,6 248:1 249:10 i.e 88:8	job 5:14 6:20 7:15 8:10 10:7,19 23:6 191:12 joel 3:11 25:10 John 67:17 67:20,21 Johnson 211:10 John's 5:23 43:9 joined 5:18 188:24,25 joint 171:9 joints 90:12 Joyce 228:14 judgment 33:2 61:5 July 1:13 198:25 June 21:12 21:15 69:8 74:5 192:19 196:2 228:7 238:13 239:4 jurat 246:24 just 4:11,14 21:2,11 33:18 37:13 46:19 56:5 67:4 71:23 72:6 79:15 84:10,10 85:10,12 86:11 90:12 93:24 106:20 112:2,19 115:17,20 116:8,10 121:8 126:18 147:21 148:13 151:21 152:11 154:11 160:20,23 161:16 162:9,19,22	163:19 164:9,24 177:19 187:16 191:21 192:9 196:2 199:6 202:7 210:7 213:7 216:7 221:5 221:22 222:19 233:22 237:12,16 240:20 241:22 245:9 justification 126:24 164:19 justified 93:3 174:14 227:12 justify 206:15 K keep 21:17,20 30:24 78:9 99:8 188:6 keeping 32:23 Kenzie's 79:21 kept 189:10 190:21 ketosis 171:23 keys 182:6 kid 51:5 kind 7:2 24:11 31:25 33:15 60:25 61:2,3 75:24 79:13 87:21 100:20 105:22 106:6 107:9 117:19 129:14 130:20 159:3,5 185:8,13	191:15 204:5 208:23 217:7 222:13,14 233:15 234:12 kinds 41:13 47:23 51:10 83:3 107:2 107:11,14 116:13 121:22 140:5 kineticist 66:2 164:3 164:8 kinetics 66:3 Klein 66:8 161:23,25 knew 28:14 43:17 83:9 103:16 121:10 147:25 158:7 178:12 207:25 knocked 121:12 know 4:11,16 4:21 8:24 13:17 14:7 18:15 19:13 19:16 20:2 20:5 23:4 24:15,20 28:13 35:21 38:25 39:2 39:4,17,20 39:21 40:12 40:16,23 41:7 42:3 48:16 50:7 50:10,12 51:5 53:6 54:23 55:13 55:15 56:15 56:17 59:3 60:3,6,7,9 61:14 62:21 63:2,4,5,13	63:16 66:23 67:20 69:3 73:6 76:9 76:10,11 81:16 82:9 83:11,23 87:7 88:15 88:16 92:16 99:18 100:10,23 103:6,7,8 104:11,24 106:6,24 108:9 112:6 112:9 114:18,21 117:10 120:22 122:9 125:16 130:6 132:2 138:10 139:3 142:23 145:6 147:5 147:24 150:4 151:10,13 151:14 152:16,23 153:2,5,18 156:6,6 157:14 158:7 160:2 161:17,19 162:16,22 164:2,9,15 164:25 169:3,6 173:5,7,12 175:20,23 176:2,4,6,7 182:12,21 182:24 185:20 186:15 187:10,17 187:18 188:2 191:23 192:7 194:15,17	194:23 195:4,7 197:24 199:2 201:6 201:12,14 201:17 203:6,14 204:16,21 204:21,22 204:25,25 205:5,6,10 205:17 206:20,22 207:19 208:16 209:12 211:10,12 213:3 215:20,23 215:23 216:6,14 217:25 219:6,10 221:3,4,6,9 221:16,25 222:2,21 223:21 225:11 226:7,8,19 226:20,22 227:17,20 233:7,23 235:15 236:18,19 237:2,21 238:5,7 239:19,21 239:22 240:22 241:7 244:13 knowledge 14:13 46:2 121:4 143:25 198:12 221:4 knowledge... 146:19,20 known 28:2 30:21,22 45:11,12
J J 2:6 Jack 162:3 jacket 166:25 James 67:17 January 110:25 111:21,24 Jasinski 43:12,23,25 44:2 80:15 JAY 3:7 Jick 128:16 129:19,22 130:15,17 130:24 131:3 133:10 134:17 136:12 137:10 145:12,14 145:19 195:6 250:24 Jim 109:17					

144:2 178:13 knows 18:23 42:16 Kramer 11:15,17 44:6,7,8 55:2 162:3 162:4	199:3 201:15 204:23,24 205:3 217:25 224:9 228:23 229:5 230:3 230:4,18,25 232:18 233:19,19 251:11 labeled 186:7 labeling 19:21,24 20:19 65:18 70:20 71:2 72:19 73:4 73:16 88:11 95:18 96:5 97:23 98:9 110:8 112:17 151:11 152:21 158:23 198:18,20 217:23 228:20 232:19 237:25 251:23 labels 73:10 97:17 98:2 98:11 158:16 204:18 205:4 laboratories 1:10,10 14:2 laboratory 51:14,14 lack 155:25 246:21 lacrimation 171:5,17 ladder 107:17,19 lag 216:4,19 224:15 lag/drug	216:14 language 110:14 114:23 129:8 151:5 151:18,23 151:25 157:18 159:24 168:25 169:5,8,10 172:5 174:23 175:2 189:16,20 190:16 191:10,15 192:10 193:6,7 194:16 196:23 197:24 198:8,11 201:4,6,8 201:11,16 201:18,19 222:13,15 222:15 224:8 229:22 246:6 large 31:17 100:4 134:14 146:4 203:25 204:7,9,12 larger 53:24 53:25 last 11:21 21:13 24:24 55:14 68:2 69:11 72:21 76:25 107:21 108:23 114:8 126:9 148:12 168:23 172:3,11 179:15 186:5	193:11 198:23,24 202:24 lasting 212:24 late 21:5 98:14 later 9:10,21 70:11 100:6 163:4,12,14 163:15 latest 197:8 launch 9:17 20:19 76:15 76:18 law 6:25 35:15 45:24 177:4 Lawrence 136:16 lawyer 24:12 24:16 lawyers 221:16 lay 222:15 lead 105:8 142:16,19 183:11 223:5 leader 13:4 14:14 55:17 65:9 leaders 8:22 leaked 31:24 learn 9:21 18:25 92:5 103:13 learning 115:5 least 131:11 138:3 176:19 210:4 239:12 240:4 leave 10:13 17:11 206:24 231:20 leaving 17:18 43:22 lectures	60:10 left 5:23 8:8 11:21 12:6 12:15 22:22 23:21,25 55:13 75:5 126:21 138:15 211:18 legal 27:25 31:13 34:22 35:11 40:11 109:24 113:15 227:10 legitimate 100:16,16 100:17 135:16 legitimately 40:14 123:22 242:2,9,16 length 172:13 less 37:24 50:23 62:11 63:2,6 74:23 77:2 77:14,17 118:8 142:21 146:11 147:7 158:10 195:20 205:20 206:2,11,15 207:5 215:21,24 224:4,10 225:6 232:12,12 232:15,20 233:4 236:4 236:11 244:25 245:16 246:17,18 246:18,19 let 4:11,16,20 22:23 27:12 49:4 60:21	61:14 79:12 111:9 135:23 141:24 156:19 169:19 173:23 177:19 231:9 237:20 242:14 244:21 letter 67:16 79:15,20,24 80:8 129:19 130:15,17 137:22 138:16 145:20 161:3,4,10 163:13 192:23 195:5 250:24 letters 195:25 let's 14:18 38:23 39:8 39:16 40:24 56:21 63:10 73:10,11,12 83:10 97:25 122:22 126:19 184:19 206:14 213:6 217:9 241:16 level 32:6 36:18 38:17 38:20,22,24 39:3,5 54:4 80:23 90:17 120:2 138:8 178:11,11 186:24 187:6 222:11 leveling 54:6 levels 54:7 81:24 100:17 118:21
--	--	--	--	---	---

119:22,24 levorphanol 41:5 liability 27:25 34:10 34:13,19,19 35:4,5,7,19 35:20 36:5 36:25 37:12 38:18 39:25 40:7,11,12 43:20 45:20 45:21 46:19 47:22 50:22 55:21,22 63:13 64:23 65:15 81:22 86:24 113:11,13 113:15,16 113:25 114:2,10,15 115:16,19 116:4,6 117:21 118:2,8,11 118:12,24 119:13,23 119:25 150:22 151:2,9 152:4,18 156:4,10,14 159:25 162:15 163:22 164:14 174:24 193:8 223:13 246:8,10 licensed 33:24 lies 43:7 life 12:3 231:9,9 light 70:11 204:7 lighting 77:17 like 4:16 5:7 21:2,17	32:14 50:11 50:13 51:17 54:8,9 62:5 62:12 69:15 79:8,20 80:5 81:5 85:6 89:15 91:16 97:7 98:25 101:21 104:22 107:17,22 111:6 125:22 129:5 138:20 139:24 140:23 149:19 155:16 159:18 160:24 163:3,18 164:16 166:16 177:11 184:20 188:13,15 189:15 195:11,16 197:10 199:6 205:11 210:11 213:7 218:19 219:15,23 232:24 235:18 241:17,23 likelihood 32:13 135:5 likely 125:2 135:9 158:10 165:19 liking 53:11 119:4 120:4 120:17 246:12,18 limited 49:21 limits 68:15	70:3 line 112:7,7 115:10 116:17 170:16 171:15 248:7 250:2 251:2 252:2 lined 192:25 lines 145:14 170:3 link 81:23 list 20:13 41:5 51:23 58:12 171:22 listed 76:25 154:15 listen 145:15 listened 232:10 listener 219:6 223:25 listing 21:3 lists 171:3 litany 215:19 literally 57:18 139:11 201:17 literature 129:16 157:15,19 litigation 68:20 little 34:8 36:22 41:24 55:20 64:11 105:19 110:15 142:22 149:13 202:2 213:4 213:5,5 222:24 234:21 live 146:7 201:16,19 201:20 lively 144:4 lives 59:19 LLP 3:9	local 26:25 located 112:17 170:5 locations 203:13 long 6:15 7:6 7:9,23 8:4 12:8,13 13:15 24:18 24:22 52:2 116:10 118:10 122:7 137:22 143:21 148:5 171:22 181:20 190:17 212:24 234:13 longer 177:12 182:7 Longmeyer 162:3 long-acting 234:14 235:5,6,12 235:17 239:8,14,17 239:18,24 240:16,20 long-term 9:16 30:10 88:8 150:5 look 19:12,19 23:9 32:24 32:25 52:5 62:25 67:4 67:7 83:24 91:16 102:18 111:21 116:17 120:11 122:22 124:14 125:5,13,22 126:9,19,25 129:6 133:13,17	133:19 134:9 140:25 142:16,18 145:3 150:10 155:11 157:25 158:15 159:7 169:20 177:6 182:5 184:18,19 192:4 198:22,24 199:18 213:6,9 227:11 228:3 234:11 237:23 240:25 241:17 looked 18:5,8 75:13 96:10 128:15 137:8,9 139:25 162:8,9 174:8,19 190:13 196:2 202:24 203:19 234:25 236:21 looking 17:11 21:12 50:21 68:6 69:6,7 69:10 70:16 73:23 76:24 76:24 80:8 84:7,11,22 85:16 88:4 91:20 102:16,21 103:22,23 112:14 113:8 114:4 118:19 119:11,13 120:15	124:20 128:11 131:22 133:14 139:18 148:22 154:8 160:23 161:22 162:11 163:16 166:13 167:6,21 168:18 172:9 173:17 177:17 178:18 179:15 183:4,13,14 186:5 189:21 192:22 193:24 195:13 196:13,22 199:12 203:10 204:3 219:5 223:3 225:12 looks 69:15 79:20 80:5 85:6 88:10 98:25 112:12 160:24 163:3,18 166:16 184:19 188:13,15 189:14 195:11,16 218:19 237:3 loop 205:15 lose 59:10 60:15 loss 56:25 216:4,14 lost 164:25 237:18
---	--	---	---	---	--

lot 49:14	193:3	malignant	127:20	99:19	184:16
96:24	209:19	89:6	manifestati...	104:14,21	185:18
135:19,25	235:4	man 37:23	56:23	107:22	193:4,13
140:5 144:2	magnitude	manage	manner	108:10	194:20
144:14	39:21	15:14,14	190:19	109:22,25	198:18
178:16	118:22,23	29:19 93:15	manual 58:8	206:23	200:13
182:2 187:9	173:13	135:7	manufactu...	231:16,20	202:14
203:24	main 127:19	169:12	176:25	marketplace	210:5,9
244:8	maintaining	180:21,22	manufactu...	187:17	214:15
lots 94:2	22:8	209:24	176:19,20	marriage	218:6
210:16	maintenance	managed	many 14:15	249:17	220:13
low 54:7	205:3	29:6,9,12	14:21 15:5	Martin	226:19
90:15	212:19,20	31:3,4	18:9 33:23	154:19	231:2 232:2
104:20	216:24	32:12 90:23	34:15,15,16	232:7 239:5	233:20
105:14	major 131:15	133:18	35:22 39:15	Mary 11:18	234:3
107:11	131:23	141:20	42:3 44:17	master's 5:24	235:14
109:5,10,13	132:3,10,21	194:9,25	44:23,24	25:25 26:4	240:13
118:11	134:25	196:9,18	58:15,21	material	241:8
134:2	141:18	197:14	82:21,22	19:20,22	245:16
217:10	majority	200:9	87:2 97:18	20:24 96:6	246:2,7
lower 51:6	225:9	management	107:8	104:17	maybe 15:2
53:12 118:7	make 23:21	9:12 59:13	125:20	materials	50:7 160:12
119:14,19	30:14,19	60:13 64:5	137:11	23:22	191:14
119:20	37:22 50:22	64:7 73:9	145:9 173:5	110:12	McCormick
132:23	57:20 58:11	91:14 92:2	173:7	205:16	12:7,9
135:4,8	58:12 70:4	93:6 107:16	187:13	227:18	192:17
141:19	70:8 75:10	123:22	204:5 212:5	matter 4:19	228:20
155:2,9	75:23 79:9	133:22	March	32:21 123:7	229:25
156:24	88:11 90:17	135:22	111:10,11	183:14	mcnamara
157:6,21	91:12	136:2,20,21	111:23	249:18	2:6 4:6,8
167:12	109:16	142:7 145:8	169:20	mattered	16:17 21:11
173:3	110:6	146:19,21	189:22	116:3	41:20,23
232:25	116:12	149:24	marginalizi...	117:14,17	52:19,21
LP 3:15	129:7 133:5	150:3	210:20	matters	94:13 95:8
lunch 94:14	143:22	190:12	mark 2:15	225:3,4	136:7
Luncheon	152:14	194:12	111:8	MATTHE...	140:10
94:15	177:10,14	196:15	marked 20:9	2:13	142:12
lynn 1:6 4:9	186:11,17	200:4	103:23	matured	144:17,20
11:15 44:7	186:18	202:19	170:4	48:22	146:15
44:8	192:9	205:16	market 9:10	may 18:25	150:13
L.P 1:9 3:3	209:17	207:18	10:16 18:24	23:23 28:20	188:6
7:7 228:5	210:21	242:3,10,16	19:6 46:2	30:12,18	199:10
M	221:11	244:7	74:21 146:5	38:17 48:15	213:12,23
made 10:11	248:5	manageme...	176:25	52:14 72:10	228:2
19:2 20:3	makes 130:13	133:4	187:23	86:7 88:16	237:11,15
71:3 72:22	159:9	managing	215:8 231:2	102:2	245:7
75:25	making 33:2	146:22	marketed	117:25	McNeal
102:10,10	59:20 74:4	189:13	109:17	142:3,4,5	22:21,24
112:9	74:22 78:13	manifest	176:5	147:19	23:9,17
115:18	81:2 101:25	56:17 57:19	marketing	155:24	MD 1:16 4:1
176:25	115:15	manifestati...	7:4,4 76:14	171:2,8,21	4:2 5:1 6:1
	175:8	56:22,24	76:17 99:10	172:3	7:1 8:1 9:1

10:1 11:1	114:1 115:1	218:1 219:1	201:7	226:5	memo 218:9
12:1 13:1	116:1 117:1	220:1 221:1	221:25	227:10	220:10
14:1 15:1	118:1 119:1	222:1 223:1	239:20,21	237:2,4	227:4
16:1 17:1	120:1 121:1	224:1 225:1	meant 40:13	251:10	240:17
18:1 19:1	122:1 123:1	226:1 227:1	69:20 81:17	medically	memoranda
20:1 21:1	124:1 125:1	228:1 229:1	95:21 99:18	38:8 222:6	24:3
22:1 23:1	126:1 127:1	230:1 231:1	100:13	medication	memorand...
24:1 25:1	128:1 129:1	232:1 233:1	169:7 172:4	31:19	95:13 101:5
26:1 27:1	130:1 131:1	234:1 235:1	185:20	101:14	memorialize
28:1 29:1	132:1 133:1	236:1 237:1	186:15	102:7	22:2
30:1 31:1	134:1 135:1	238:1 239:1	measure 43:4	121:20	memorializ...
32:1 33:1	136:1 137:1	240:1 241:1	82:16,17	134:16	22:25
34:1 35:1	138:1 139:1	242:1 243:1	118:18	180:17,18	234:18
36:1 37:1	140:1 141:1	244:1 245:1	measured	180:19,25	memory 4:23
38:1 39:1	142:1 143:1	246:1 247:1	83:6 200:22	181:15	5:2 128:16
40:1 41:1	144:1 145:1	247:6 248:1	measureme...	205:22	Memphis
42:1 43:1	146:1 147:1	249:10	50:10 81:22	207:7	214:8
44:1 45:1	148:1 149:1	mean 32:19	82:8	212:15	ment 234:13
46:1 47:1	150:1 151:1	34:16,19,23	measures	217:3,6	235:5 236:5
48:1 49:1	152:1 153:1	54:14 62:7	83:5	244:17	239:10
50:1 51:1	154:1 155:1	64:17 86:21	measuring	medications	mental 5:14
52:1 53:1	156:1 157:1	87:9 119:19	43:3 82:20	4:25 61:4	134:3
54:1 55:1	158:1 159:1	125:20	mechanism	71:18 136:4	mention
56:1 57:1	160:1 161:1	132:11	100:3 133:8	146:12	17:10 88:13
58:1 59:1	162:1 163:1	150:15	237:21	147:9	240:5
60:1 61:1	164:1 165:1	160:10	238:6	209:22	mentioned
62:1 63:1	166:1 167:1	164:6,21	med 239:7,18	230:21	6:4 15:4
64:1 65:1	168:1 169:1	165:12	media 19:3	medicinally	25:21 33:18
66:1 67:1	170:1 171:1	166:20,23	medical 4:22	36:19	36:22 38:20
68:1 69:1	172:1 173:1	168:6,10	5:21 8:24	medicine	41:25 43:21
70:1 71:1	174:1 175:1	172:14,20	9:3 11:6,8	5:11,17,22	45:11 49:12
72:1 73:1	176:1 177:1	191:2,14	11:17 16:22	5:25 6:2	50:3 51:7
74:1 75:1	178:1 179:1	202:15	26:19 30:23	29:23 32:24	60:2,18
76:1 77:1	180:1 181:1	203:16	34:5,18	34:3 90:10	117:17
78:1 79:1	182:1 183:1	217:10	35:13,19,20	133:16	120:6 121:4
80:1 81:1	184:1 185:1	221:5 233:7	36:24 38:11	139:8	138:5
82:1 83:1	186:1 187:1	233:11	39:25 40:6	213:16	139:15
84:1 85:1	188:1 189:1	240:13	40:10 41:6	meds 231:11	144:22
86:1 87:1	190:1 191:1	meaning	45:20 55:7	meeting	145:12
88:1 89:1	192:1 193:1	62:17	65:10	66:20,23	146:6
90:1 91:1	194:1 195:1	110:19	113:15	68:4 69:4,4	149:22
92:1 93:1	196:1 197:1	234:24	131:9,20	69:5,8	155:24
94:1 95:1,5	198:1 199:1	meaningful	153:7,14	76:21 78:16	160:4 185:3
96:1 97:1	200:1 201:1	102:14	162:10	78:17,19	187:12
98:1 99:1	202:1 203:1	means 34:10	165:3,4,8	79:3 101:6	201:21
100:1 101:1	204:1 205:1	85:21 87:7	165:10,17	101:8	223:19
102:1 103:1	206:1 207:1	87:8,9	166:6,17	193:12,14	224:25
104:1 105:1	208:1 209:1	132:13	172:6,9	228:4,6,12	226:4
106:1 107:1	210:1 211:1	152:11	177:17	meetings	mentioning
108:1 109:1	212:1 213:1	154:5	179:16	64:9	74:9
110:1 111:1	214:1 215:1	161:20,21	190:11	membership	Merlo 226:22
112:1 113:1	216:1 217:1	200:19	203:10	97:15	merperidine

131:16 message 109:9 219:10 220:12 221:23 230:22 messages 226:12 227:11 met 17:16 21:24 22:4 43:16 78:6 226:24 metabolic 137:17 methadone 212:19,20 212:22 215:2,16 methodolo... 42:25 methodology 159:4 200:22,23 200:24 methods 42:11 METHVIN 2:8 MICHAEL 3:16 mid 8:8 54:9 middle 170:17,20 midway 91:21 mid-year 194:21 might 35:3 36:9 37:23 37:24,24 48:24,25 60:7,15 71:7 75:2 78:2,19 81:14,19 90:11,20,22 93:7 96:16 106:11 110:22 132:16,17	142:2 152:12,12 156:9 164:7 164:8 177:21 186:12 198:15 206:14 207:16 210:21 214:16 216:8 217:11 237:22 Mike 66:8 103:25 104:2,12,17 104:21 107:22 161:23,25 MILES 2:8 milligram 40:25,25 85:22,22 87:10 milligrams 82:21,22 85:23,25 86:13 87:2 172:15,15 million 209:15 MILSTEIN 2:3 mind 92:11 103:18 108:24 190:21 214:13,18 mine 111:8 170:3 minimum 13:6 30:25 219:24 minor 132:3 132:10,18 minute 39:21 240:6 minutes 57:13 68:3 69:9 74:7 77:9 78:17	78:18 185:13 228:5,17 232:10 misleading 195:19 230:22 231:3 misses 208:23 missing 158:19 MISSISSIP... 1:3 misuse 191:21 193:25 195:14 197:11 199:13,20 199:24 mixed 53:18 53:23 83:2 121:20 mobility 90:8 modal 172:18 172:20 173:3 model 88:3 231:6,12 models 89:18 89:19,20,21 89:22,23 90:15 181:22,24 228:23 229:9 moderate 225:25 230:11 231:10 236:22 modern 31:22 modification 33:13 modified 51:2 83:12 84:23 modify 50:21 modifying 90:9 91:10 money 81:5	100:4,24 monitored 131:10 monitoring 32:15 Montgomery 2:9 month 8:9 122:2 173:8 months 12:10 21:8 137:16 140:2 172:3 mood 58:24 moonlighting 26:23 MOR 173:17 more 10:20 29:11 35:14 35:14 46:24 54:8 57:17 64:18,19 65:5,22 74:23 75:2 77:20 86:15 100:20 115:19 119:15 121:23 125:2 132:5 133:13 135:9 137:6 139:8,13 142:3,21 146:20,22 152:13 173:8 181:17,18 184:9 187:14 191:17 195:22 196:11 202:20 206:20 212:16 213:10,15 213:19,24 215:14 218:25 220:22,22 225:24 226:2	229:22 230:12 235:16 236:14,17 236:23 244:5 246:11 morning 4:7 41:19 56:12 morphed 97:15 morphine 38:7,22,24 39:2,5,14 39:24 46:12 46:17,25 65:2,6 113:11,14 116:12,13 121:2 150:23 154:20 190:20 211:20 222:14 Morphine's 47:2 mortality 94:4 most 18:21 27:9 30:8 45:5 51:11 51:12 55:8 65:24 66:2 80:24,25 81:2 82:4 89:22 97:10 97:16 116:4 117:6 120:12,25 121:19,21 134:5 139:21 141:3,6,7 171:24 172:22 176:11 177:10 180:9 186:25 188:2 192:10	193:3,5 202:21 212:18 219:16 mostly 26:2 83:18 96:11 move 77:24 78:7 141:10 160:5 moving 223:21 MPH 1:16 4:1,2 5:1 6:1 7:1 8:1 9:1 10:1 11:1 12:1 13:1 14:1 15:1 16:1 17:1 18:1 19:1 20:1 21:1 22:1 23:1 24:1 25:1 26:1,6 27:1 28:1 29:1 30:1 31:1 32:1 33:1 34:1 35:1 36:1 37:1 38:1 39:1 40:1 41:1 42:1 43:1 44:1 45:1 46:1 47:1 48:1 49:1 50:1 51:1 52:1 53:1 54:1 55:1 56:1 57:1 58:1 59:1 60:1 61:1 62:1 63:1 64:1 65:1 66:1 67:1 68:1 69:1 70:1 71:1 72:1 73:1 74:1 75:1 76:1 77:1 78:1 79:1 80:1 81:1 82:1 83:1 84:1
--	--	---	--	---	--

87:1 88:1	191:1 192:1	189:10	myalgia	navy 5:18,23	164:22,23
89:1 90:1	193:1 194:1	191:6,7	171:6	NDA 65:13	189:12
91:1 92:1	195:1 196:1	202:8 209:5	mydriasis	68:9 69:18	215:16
93:1 94:1	197:1 198:1	212:23	171:6,19	70:12,22,24	neither
95:1,5 96:1	199:1 200:1	213:4	myself 66:8	76:3 127:2	189:12
97:1 98:1	201:1 202:1	215:11	81:2 95:15	153:6	229:2
99:1 100:1	203:1 204:1	216:20,23		154:22	nervous
101:1 102:1	205:1 206:1	221:16	N	155:6	119:3
103:1 104:1	207:1 208:1	246:12,12	N 2:2 95:2,2,2	157:15	neuralgia
105:1 106:1	209:1 210:1	mucositis	Nalmefene	176:21	104:21
107:1 108:1	211:1 212:1	222:17	79:5	nearly 97:20	105:14
109:1 110:1	213:1 214:1	Mulligan	Naloxone	neat 190:24	109:14
111:1 112:1	215:1 216:1	228:14	47:24 48:8	necessarily	neurobiolo...
113:1 114:1	217:1 218:1	multidimen...	73:25 74:10	124:10	56:22
115:1 116:1	219:1 220:1	58:14	75:9,17	128:9 137:8	neuropathic
117:1 118:1	221:1 222:1	multidiscip...	79:5	227:8	89:21
119:1 120:1	223:1 224:1	66:16	Naltrexone	necessary	109:14
121:1 122:1	225:1 226:1	123:17	44:4,20	30:24 71:12	never 14:23
123:1 124:1	227:1 228:1	128:3 136:2	48:3 75:9	need 4:20	19:18 22:4
125:1 126:1	229:1 230:1	202:19	75:21 79:5	29:25,25	27:8 38:21
127:1 128:1	231:1 232:1	207:18	name 4:7	30:3,4,5,5,6	41:15 43:13
129:1 130:1	233:1 234:1	multiple 12:2	12:2 17:13	35:14 42:12	64:21 75:17
131:1 132:1	235:1 236:1	62:7 90:16	55:6 99:6	59:12 70:22	92:12 98:10
133:1 134:1	237:1 238:1	101:20	162:3	70:23 73:21	158:18
135:1 136:1	239:1 240:1	104:18	234:12,25	89:3 93:13	164:6,20
137:1 138:1	241:1 242:1	122:19	named 55:10	143:6	176:20
139:1 140:1	243:1 244:1	129:15	211:12	165:16	nevertheless
141:1 142:1	245:1 246:1	136:10	232:6,7	185:23	175:3
143:1 144:1	247:1,6	177:12	names 25:7	186:11	new 1:19,19
145:1 146:1	248:1	201:15	narcotic	214:21	1:21 2:4 3:5
147:1 148:1	249:10	228:10	31:18 131:8	216:17	3:5 8:14 9:4
149:1 150:1	much 32:16	multiples	131:12,19	217:13	9:9,25
151:1 152:1	33:8 37:10	122:17	138:3	218:25	11:10,12
153:1 154:1	49:16 51:17	MURRAY	narcotics	219:10	14:13 15:19
155:1 156:1	51:18,20,24	2:15	28:2 31:14	244:17	32:6 48:19
157:1 158:1	54:19,21	must 60:24	107:4	needed 10:18	72:3 125:18
159:1 160:1	57:17 62:17	77:9 130:10	193:18	31:19 72:16	125:21,23
161:1 162:1	64:13 71:20	185:16	narrator	96:25 107:6	153:13,24
163:1 164:1	71:21 72:13	190:21	207:5	177:2	157:12,22
165:1 166:1	76:22 82:24	223:24	nasal 36:6	212:16	165:14
167:1 168:1	92:10	muzzy 51:22	116:13	215:14	166:10
169:1 170:1	110:19	mu-agonist	National 5:14	needs 46:9,9	177:2
171:1 172:1	115:13	113:10	6:12 56:18	107:4 109:2	196:16
173:1 174:1	117:9	mu-opioid	74:18	165:16	209:6 248:2
175:1 176:1	122:25	82:18,18,18	118:13	needs/wants	248:4 249:3
177:1 178:1	135:4,8,15	82:19,19	natural 35:5	219:7	249:5,9
179:1 180:1	136:12	160:7,10	nature 35:22	negative	next 74:3
181:1 182:1	138:5	162:13	36:2 75:7	134:13	79:12 87:12
183:1 184:1	139:12	163:20	76:21	negotiate	91:20 95:10
185:1 186:1	146:22	164:5	nausea	212:22,23	101:2
187:1 188:1	178:14,17	mu-opioids	171:11	215:15	108:15
189:1 190:1	179:4,10	82:13	Naval 5:19	negotiating	110:20

112:25 114:4 122:22 125:5 127:25 145:6 149:12 171:21 188:5 191:3 199:25 200:7 230:5 NICHOLS 2:12 nicotine 119:4,6,7 155:16 NIDA 51:13 194:13,18 194:22,23 216:15 NIDA's 207:14 night 5:15 224:3 244:25 nine 8:5 nod 81:16 nominal 182:11 nonaddictive 217:15,19 218:2 nonmalign... 89:19 108:19 109:3,12,19 nonmedical 56:10 220:2 nonmedici... 123:16 127:12 223:11 non-cancer 87:18 non-GNP 104:17 non-opioid 138:22 209:21 217:12 230:21 236:17	Nope 138:9 normal 49:9 49:10 82:6 178:24 normally 164:7 217:4 NORTHE... 1:3 notably 193:6 Notary 1:20 4:3 249:8 note 21:3 67:9 87:3 183:6 195:16,18 196:10 199:6 213:7 235:14 notebook 21:18 NOTED 247:4 notes 21:18 23:10,13,17 24:3 87:15 87:20,20 168:20 235:24 239:6 241:18 250:13 notes/memo 214:9,11 234:10 notes/memos 211:15 nothing 137:21 203:16 217:25 notice 1:17 20:7,9 21:4 102:21 250:4 noticed 102:25 notion 225:2 noun 145:6 novel 73:13 116:5 November 66:21	218:13 NSAID 92:3 number 14:9 26:10,25 27:19 43:19 67:2 68:6 70:17,18 79:18 80:3 84:5 98:19 100:2 111:16 113:5 115:7 116:11 118:19 125:10 129:2 146:9 153:22 160:19 163:2 165:6 169:22 174:5,7 176:18,20 178:9 179:12 183:13,16 184:15 188:12 192:14 195:10 197:4 199:23 202:25 204:2,10 205:24 206:2,3,12 206:14,15 206:16 207:11 211:2 213:19,22 214:5 218:5 219:5 223:3 225:12 227:24 231:25 234:2 235:22 238:11 239:2 241:7 250:6,8,10 250:12,17 250:20,22	251:4,6,8 251:13,15 251:17,20 251:22 252:4,6,8 252:11,13 252:15,17 252:19 numbered 170:2,3,3 numbers 26:18 68:2 84:19,20 85:18 170:7 180:10 181:13 208:17 numerals 199:7 nurse 141:21 Nx 75:4 N.W 2:4 3:10 <hr/> O O 95:2,2,2 234:10,22 236:2 238:15 239:6 OA 225:14 236:2 object 13:9 17:25 31:6 37:3 61:23 68:10 96:18 105:24 113:17 142:9 204:19 207:22 224:18 233:6 237:7 237:12,16 objection 83:15 205:13 237:19 objective 223:6,24 observable 171:25 observation	112:2 observations 85:10 168:21 observed 33:4 obtain 31:15 obvious 75:16 113:2 OC 99:5,16 104:25 241:2 occasion 138:13 occupational 5:25 occur 28:21 30:18 34:25 60:8 100:21 149:8 171:2 occurred 10:18 99:14 157:20 occurrence 61:18 occurs 62:21 Ochu 232:7 234:7,17,22 235:4 236:7 238:12 239:3 Ochu's 235:24 October 79:14 odor 101:14 101:20 102:2,8 103:4,14 off 18:13 52:17 54:4 54:6 62:24 64:6 120:18 199:3,11 offer 10:12 189:16 offered 189:20 190:15 offering 106:9	office 22:16 207:4 officer 5:21 11:17 15:11 22:3,6,7,14 22:16,20 26:20 65:10 165:3,4,8 165:10,17 166:6,17 172:6,10 177:17 179:16 190:11 251:10 officers 15:10 15:12 offices 1:18 off-label 113:4 often 27:23 29:4 37:8 43:4 57:23 70:8 102:17 171:20 182:21 208:20 216:13 Ofentimes 46:12 oh 11:2 26:14 41:2 44:16 85:6 109:6 181:2 okay 13:18 14:8 29:2 29:18 31:9 34:17 42:14 43:15 54:13 60:22 68:14 73:10 79:20 85:20 86:9 95:16 100:25 105:10 141:6 167:21 181:16 190:15 191:24 206:6 221:9 221:23
--	--	---	--	--	---

222:2	138:3	131:12,15	114:20,23	204:18	osteoarthritis
226:10	140:19	131:24	119:12	205:9,21	87:24 88:8
227:14	141:18	151:15	120:19	207:6	88:12
236:5	143:17	160:13	121:6	209:20	105:21
240:12	144:9	166:3	122:11	215:10,22	106:11
old 177:24	147:10,11	174:22	138:21	220:7 224:5	109:2,10,13
178:13	150:14	192:2	146:12	224:11	225:19
204:4	157:7,9	198:17	147:8 150:5	226:2	229:2
older 209:16	158:20	200:19	181:14,20	230:12	236:13,17
omitted	159:5	203:19	191:5,7,16	232:22,24	other 7:14,21
195:22	160:24	210:23	194:24	240:15	16:4 17:17
196:11	161:21	218:20	195:14	242:2,9,16	19:6 23:13
once 17:16	162:9,10	225:22	196:17	245:3,17	26:10 37:21
56:12	170:4,6,8	241:19	197:12,13	opportunity	45:25 47:11
165:21	172:14	op 105:8	200:8 217:5	4:17	49:2 54:11
235:3 236:8	176:14	107:6	219:14,22	opposed 31:4	65:12 74:13
237:15	179:3,18	231:12	220:4,8	35:13 40:11	79:5 83:3
239:13,23	181:21	open 95:19	222:5,10,11	56:22 91:5	90:8 92:19
240:24	182:3,6	99:5,15	225:7	103:14	97:6,7
once-a-week	183:15	100:19	235:17,17	105:16	109:5
215:25	186:12	148:3,4	236:14,23	115:20	114:18
one 4:10 7:21	191:5 197:7	172:17	239:25	182:22	117:19
8:22 14:17	198:17	opened	240:11	231:17	118:11
14:20 17:20	203:14	101:16	opioids 28:7	optional 26:5	120:13
18:5 22:5	208:24	102:22	28:20,24	oral 36:7	137:9
25:11 32:17	210:23	operational...	34:7 40:23	46:22,25	144:10
37:2 38:10	213:6	58:11	53:24 54:12	65:3,4	156:25
38:11 40:6	214:12	operatively	57:9,11,14	78:22	158:2,3,8
40:17,21	216:7 217:3	231:10	60:17 63:3	150:25	159:22
44:19 48:21	228:13	opiate 95:18	63:7 82:21	151:8 156:8	161:18,21
50:8 52:4	231:15	opiates 30:10	88:21 97:6	156:9	171:8 177:6
58:19 66:13	232:6,17	opinion 72:15	97:10,14,21	orally 38:15	179:3
67:24 72:15	234:3	106:23	97:23 98:3	38:23 39:4	180:23
73:8 80:21	235:23,25	152:13	119:10	order 67:11	185:2
82:21,22	238:15	opinions	120:7,14,24	67:11 79:9	188:21
83:7,24	ones 16:7	130:2	123:21	173:13	191:22
86:18 96:4	41:3,12	opioid 29:20	127:9	190:5 217:5	202:8,9
97:12 99:6	52:12	45:2,15	128:19,25	229:11	204:17
99:25	one's 38:18	47:20 50:15	146:8	orderly 18:22	221:18
102:20	48:9 144:6	50:17,19	156:24,25	ordinary	230:21
103:5	239:22	54:21 57:19	157:7 158:4	77:13 166:5	245:5
108:22	ongoing	59:11 80:23	159:22	166:8	others 41:5
112:21	103:5	80:25 81:21	174:2 175:5	organizatio...	43:7 44:22
118:8 120:2	only 6:19	81:22 82:8	178:23	62:15	44:23
121:4 122:8	7:21 12:17	83:6,18	184:3,4,11	original	107:12
122:13	17:15 18:8	90:16 93:12	188:2	117:11	ought 117:14
124:7,8,14	47:7,10	96:17 97:17	191:22	153:24	139:13
125:6	67:5 72:25	98:8 107:6	194:2,5,9	166:16	out 15:8
131:11,15	77:22 86:4	107:12	194:25	orphanizing	17:15 28:16
131:17,18	89:7 100:23	108:18	196:8	210:7	31:24 32:23
131:24	102:19	109:2	199:14	orphans	33:16 34:24
132:25,25	125:6	113:10	201:24	209:18	35:13 43:6

49:23 56:9	170:18	190:16,18	177:18,23	125:12,14	199:16,22
62:8 77:12	overdose	233:3	178:2,19,22	126:22	200:2 228:3
77:24 92:23	51:4,6 94:3	oxycodone's	182:13,17	127:13,16	246:24
93:19 97:7	154:9	40:3 153:10	182:21	151:19	248:7 250:2
121:17	overrepres...	153:17	183:21	152:7	251:2 252:2
130:11	203:12	oxycodone/...	184:2,9	161:11	pages 170:2
137:14	overruled	48:6	187:22	174:5,7	paid 100:24
143:25	70:12	oxycodone/...	188:22	197:7 223:8	pain 26:15
146:25	oversight	48:7	189:5,8	227:12	27:6,8,14
151:13	11:11 65:10	OxyContin	190:17,22	237:9	28:8,11
156:12	221:20	16:3,21,23	191:8,20,22	241:25	29:10,12,20
163:20	overtly	20:4,18	192:5,18	242:6	30:2 31:3,4
173:14	215:17	22:13,20	198:3,22	243:10,15	32:12 33:22
179:23	overwhelm...	23:22 39:16	199:3 212:4	243:19	33:23 40:14
182:8	127:10	39:19 61:8	213:18,19	244:8	58:2,3 59:7
206:21,25	own 13:20	61:11 62:22	215:3,4,8	245:10,13	59:13,18,18
210:11	14:6 24:12	63:2,6	215:20	245:14,18	59:21,22
215:6,12	53:21,25	64:12,15,18	217:4,8,11	246:3,6,20	60:4,11,13
220:10	112:23	66:22 79:8	223:8,12	packaged	60:17,25
221:22	245:21	80:20,21	224:2,8,9	101:19	85:4 87:18
224:13	oxycodone	85:24 87:17	225:15,17	page 20:13	88:3,11,25
240:7 244:4	38:7,16,23	87:23 96:2	225:18	21:13 67:25	89:4,6,7,16
244:10	39:4,23,24	101:19,22	226:13	69:6,10	89:19,20,21
outcome	40:5,25	104:7,13	227:16	70:16 73:23	89:24 90:6
249:18	46:24 47:12	105:6	229:21	74:3 76:13	90:7,10,15
outpatients	47:13,24	107:25	230:18	76:24 80:10	90:15,21
202:18	48:3,8	111:3	232:10,15	91:20	91:5,6,14
outstanding	64:25 65:2	113:10	232:20,24	101:12,13	92:3,6
197:9	65:5 74:10	114:9,14,24	233:4,5,13	103:22	104:20,20
over 12:23	75:17 85:3	115:6 118:5	235:18	111:9,18	104:21
14:20 21:7	85:4,18,18	120:22	236:4,9,14	125:13	105:13,14
24:11 52:8	85:25 105:7	145:22	239:24	126:9 127:3	105:14,15
57:2 67:5	114:5	147:13	243:10,12	150:16	105:16,22
97:16 104:4	115:17,21	148:3 152:3	244:23	154:8	105:23
104:7	150:21	152:17,19	245:11,13	160:21,21	106:5,10,14
110:17	154:11,15	153:9,16,25	245:15,16	163:16	106:20
131:22	154:16,20	156:3,19	OxyContin's	166:14	107:2,6,11
133:16	159:14	157:5,8,10	20:18,19	167:7	107:16
146:7	167:11	159:14,17	65:8 217:15	168:18	108:19
151:10	172:16	159:18,19	217:18	170:2,5,7	109:4,5,10
167:17	175:19,20	159:23	OxyContin...	172:10	109:13,14
171:21	175:24	160:7	75:18	173:18	109:20
177:3	176:11,17	161:19	Oz 218:23	177:21	115:7
189:13	177:5,15	162:8,14		179:15,16	123:22,25
204:10	178:4 179:7	163:21	P	179:18,18	124:5,21,25
216:3,3,4	179:25	164:13	P 2:2,2	183:4	125:2
220:5	183:7,8,11	165:5 169:3	pack 105:14	184:19	133:21
237:23	183:12,17	169:9,14,18	package	193:11,24	134:4 135:9
241:11	185:2	170:4,17,19	17:23 18:6	195:15	135:16,17
246:13	186:23,25	170:24	18:8,10,17	198:21,23	135:21,22
overdosage	187:14,19	173:8,25	18:20 62:25	198:24	136:2,19,19
112:25	187:21,24	175:4,13,14	97:2 109:21	199:5,8,12	136:21

137:7	234:11,24	145:20	65:19,21	83:20 85:4	200:9,12,16
138:21	236:4,11,22	146:18	233:13	86:3 87:18	201:24
139:24	239:7 240:5	150:4 154:2	party 101:10	87:24 89:6	202:17,25
140:12	242:3,10,12	154:22	passed 24:11	89:10 90:2	205:21
141:16,18	242:17,18	162:7	past 21:8	90:22 92:12	206:25
142:4,6,7	242:22	165:22	50:13 93:11	92:13,13,14	207:6,20
142:24,25	243:2,21	166:8 167:2	209:10	92:21	208:14
143:3,7	244:23	186:22	210:6	102:18,25	209:10,14
144:3,3	painful	199:8 216:3	pastor 1:19	105:8 106:9	210:10
145:8	106:13	219:25	4:4 249:7	106:25	211:23
146:11,19	Paolo 189:24	partial 83:2	249:23	107:18	212:8,10,19
146:21	paper 24:4	Partially	patches 36:8	108:18	214:17,25
147:2,6	papers	208:21	patient 19:11	109:19	215:3
148:18	202:21	participant	27:14 29:19	113:25	219:13,16
149:9,15,24	paradigm	63:23	29:25 30:11	123:7,25	222:10
150:2,24	32:11	participants	31:3,5	124:5,25	224:3
171:10	233:15	9:19	32:13,15,20	131:9,11,14	225:14,20
176:9,14	paragraph	participate	32:23 33:2	131:17,21	229:10,14
178:20	69:12 103:4	229:11	33:3,4,4,7	132:9	230:16,19
180:21	108:15	participated	34:19 36:10	133:18,23	231:21
181:19,22	154:9 161:9	41:13	37:17 40:13	135:16,18	232:12
181:23,25	167:9,23	participating	58:2,3	135:22,25	233:11,17
194:9,12	172:11	89:8,9	60:25 81:8	136:18,19	233:18
195:2 196:9	173:19	198:7	91:25 93:11	136:24	240:16
196:15,18	184:23,25	particular	106:7,10	137:2,7,13	242:11,18
197:14	186:6	6:11 23:18	108:25	137:16,17	242:22,25
200:5,9,12	192:23	72:5 100:8	125:3,15	137:18,23	243:3,4,6
200:16	193:11	103:14	135:9 139:8	138:14,21	243:13,17
201:24	194:6 197:6	105:22	140:12	141:2	243:22,24
202:17,19	199:17	115:9	142:6	142:25	244:3,14,16
205:21	228:20	130:20	170:25	143:14	244:24
207:6,18	parenteral	137:22	206:19	144:3	patient's
210:10	65:3 122:16	139:23	212:18,20	146:11	27:24 29:3
211:19	150:21,22	152:10	214:12	147:2,7	29:4 30:2
212:10,21	Parenterally	155:12	219:21,25	148:19	37:20 57:8
214:17,24	38:13	161:2	220:6	149:9 150:6	197:15
215:3,5,6	parke 1:18	189:14	222:17,20	150:7,24	244:16
219:13,16	3:3 25:9	192:11	231:9 236:3	158:11	patient/pha...
219:21,24	parlance	210:4	246:9,14	168:21	101:18
220:3,6	61:17	220:10	patients	172:10,12	patient/pha...
222:9,15,17	parochial	225:5 227:4	26:12,15,21	173:5,7,11	102:24
222:22	203:4	particularly	28:3,11,15	174:13	Patricia
224:2	part 14:10	34:7 77:11	28:20,24	177:16	189:24
225:25	17:22 21:4	113:21	29:7,10,12	179:8,21,23	198:10
228:23	32:11 34:3	179:13	31:15,21	179:24,25	pattern 78:23
229:3,9,14	34:4 50:20	particulars	36:5 37:15	180:7	Patty 190:10
229:15	65:14,15,17	100:9	40:8 59:7	181:13	190:11
230:11,20	68:9 78:7	particulates	59:17 60:5	182:10	pay 51:18
231:6,10,11	97:9 103:21	36:7	60:17 62:23	187:5 194:9	81:5
231:12,17	113:18	parties 123:4	63:9,11	194:25	paying 24:15
231:18	125:17,21	249:16	70:21 81:8	196:9,18	100:3
233:17,18	138:17	parts 32:10	82:7 83:18	197:14	pays 94:6

<p>peach 222:21 peak 39:3,4 39:10,18 72:6 119:21 167:12 216:25 pending 61:22 Pennsylvania 3:10 7:20 people 18:5 18:10 32:2 34:15,23 40:20 46:21 50:10,12 51:23 57:18 57:22 64:7 66:8 73:19 77:19,22 102:3,14 110:16 116:4,12 117:4 122:2 123:8,9,11 123:12 134:8,22 139:5 141:3 143:2,7 144:13 145:22 146:20 161:21 190:8 192:8 203:11 204:4,5,6 210:14 216:10,12 222:16 per 40:25 85:22 86:5 86:6 perceived 32:5,7 34:6 53:11 124:24 percent 61:18 62:12,22 146:11 147:7 149:5 149:5 179:21 180:7,8</p>	<p>182:5,7,24 200:19,20 200:20 203:8 205:21 206:2,11,16 207:5,20 208:6 209:16 percentage 149:9 percentages 149:3 202:7 perception 48:15 77:15 82:14 Percocet 97:7 97:11 104:13 105:6 Percodan 131:17 perennial 231:6 perfect 166:3 perfectly 51:14 106:23 perform 70:19 71:22 performance 72:17 performs 68:22 perhaps 56:8 89:16 109:24 240:3 period 46:16 55:8 73:7 74:19 88:22 98:9,13 107:7 112:23 118:14 124:20 132:13 137:13 143:21 146:3 157:12 158:5,8</p>	<p>179:5 186:4 periodic 30:13 33:12 143:21 periodically 33:24 89:14 permitted 180:16 persists 92:11 person 18:7,8 18:12 21:24 77:19 155:25 190:9 221:14 226:5 personal 21:17 24:12 28:14 245:22 personally 21:23 42:4 personnel 115:3 136:23 217:21 persons 15:5 210:5 237:22 person's 72:15 222:3 perspective 71:13 129:25 143:24 145:18 179:9 perspiration 171:5,18 pertain 34:6 pertaining 24:5 43:19 49:18 73:9 82:5 128:24 174:17 Pg 248:2 Pgs 248:2 pharma 1:9,9 3:3,4,15 7:7 7:8,10 8:11 10:23 16:4 16:12 17:2</p>	<p>17:3,4 20:2 55:11 67:17 68:8 147:13 228:5 pharmaceu... 7:4,15 13:6 13:23,25 15:24 22:5 121:11 158:21 167:2 193:16 211:7 221:5 Pharmaceu... 7:19 pharmaco 72:16 pharmacod... 81:24 pharmacod... 80:22 118:17 pharmacoe... 134:15 pharmacoe... 133:3 pharmacog... 40:19 pharmacok... 38:21 64:24 72:6,17 81:23 83:19 183:25 pharmacok... 64:16 179:10 pharmacok... 35:24 64:23 84:9 118:17 183:24 pharmacol... 36:11 64:12 pharmacol... 64:15 pharmacol... 164:4 pharmacol... 66:10 pharmacol... 6:3,5,6,9,10 6:21 14:4 34:5 122:5</p>	<p>177:7 pharmacov... 200:23 phase 69:4 147:16 172:2 phenomenon 56:6 phone 96:4 238:15 phrase 34:12 55:21,23,25 164:6,12 239:16 physical 30:4 33:10 57:5 57:8,21,23 60:19 123:24 124:4,23 128:7,10 168:24 169:4,7,9 172:5 243:24 244:2 physically 5:5 50:25 57:25 170:25 physician 26:24,24 27:4 29:6 30:16 32:16 93:10 219:13,21 220:21 222:9 241:12 244:13,18 physicians 18:22 27:20 31:17 73:11 89:7 96:22 106:6 133:14,17 151:20,22 161:18 182:22 220:13 222:11 243:11</p>	<p>physician's 59:12 physiologic 43:4 PI 161:12 pick 37:22 107:18 186:20 picked 204:2 picture 236:2 236:18 piece 206:21 227:7 pieces 189:17 205:8,19 pill 38:5 86:21,25,25 103:6 -pills 46:20 211:24 212:6,9,16 213:11,15 214:13,18 215:14 pilot 67:21 PK 82:6 216:25 place 54:6 68:19 144:12 225:16 228:6 placebo 43:2 50:18 89:4 89:8,14 102:10,11 102:15 103:17 105:6 185:24 230:7 placebos 103:4 placed 58:10 96:7 154:17 places 134:5 142:20 193:5 Plaintiff 1:7 plaintiffs 1:17 2:3 4:8 21:9</p>
---	--	---	--	--	--

plan 30:4 33:11 219:2 220:20 229:24	149:15 185:4 195:21 196:20	104:22 107:23,25 108:11 109:13	103:9,24 120:7 150:17 153:10,17	189:22 precipitate 54:14	30:16 31:14 32:15 190:21 240:14
planned 229:21	201:5 202:12,14	116:21 118:14	154:10 155:3,9,20	precisely 39:21 46:11 65:22 91:7	prescription 59:12
planning 218:16	203:8,10,15 208:14	134:24 135:3	156:24 157:6,22	preclinical 154:18	128:19 225:16 235:8
plasma 38:22 39:5,18	209:16,21 209:22	158:25 176:22	183:6 232:16,21	predictable 46:25	prescriptive 74:24
play 9:13	230:8,9,15	229:2	232:25 233:4	predictive 231:7,8	present 3:13 22:6,11 25:9,10,12 154:17 220:25
played 207:17,24	populations 133:20	positive 195:22	245:23 246:17	predictively 64:19	presentation 218:17 219:5 220:20,23 220:25 221:10,12 226:17 227:16 244:16
Plaza 1:19	202:10	196:11	potentially 49:3 224:4	predilection 197:16,25	
please 4:14 4:20 23:24 68:14 88:19 106:3 115:25 153:12 161:10 169:21 219:18 223:2 229:23	population-... 204:3	227:15	224:10 225:6 244:25 245:16,24 245:25	preeminent 149:24	
PLLC 2:3	populized 203:13	possibility 169:11 183:7	244:25 245:16,24 245:25	preexisting 243:5	
ploy 99:10,19	Porter 128:12,16 128:16 129:19,22 130:15,17 130:23 131:2 133:10 134:17 136:12 137:9 145:12,14 195:5 250:24	possible 31:15 45:8 156:5 168:3 173:16 174:22 186:16 219:24	potentiate 216:8	preliminary 74:25	
point 41:19 48:18 76:25 82:2 83:10 92:3 134:19 140:6,8,12 161:17 169:6 170:14 173:21 176:6 180:12 182:8 186:2 220:19 225:5 232:9 241:10	portfolio 51:12 92:16	possibly 202:18	power 190:10 powered 63:14	premiere 56:24	
pointed 224:13	portion 68:3	post 9:16 104:19 105:7,13 107:6 231:10,12	PPLP 193:12 193:18	preoccupat... 123:14 127:10 223:10	presentatio... 60:11 80:5 198:6 219:2
policies 217:25	PORTIS 2:8	poston 1:6 4:9	PPLP's 192:24	preparation 131:12 138:3	preserve 45:8
policy 72:10 145:5	Portnoy 141:18 149:23 150:4	post-operat... 229:3	practice 29:24 30:14 31:20,23 33:20 41:6 135:13	prepare 24:19 219:9	president 10:5
poorer 143:2	Portsnoy 141:18 149:23 150:4	potency 65:2 82:20	practiced 30:9	prepared 194:21	pressure 171:12
population 62:19 92:17 107:20	PORTIS 2:8	potent 65:5	practicing 27:8	preparing 193:23	prestigious 134:16
	Portsmouth 5:19,20	potential 9:9 38:8,12 40:24 41:7 41:9,11,25 42:23 44:15 46:13 47:15 47:17 49:22 50:2 54:20 74:22 76:17 77:2,3 78:24 79:10 80:16 82:17 100:20	practitioner 27:10 37:19 135:5 141:21	prescribe 117:5 220:22 235:11,16 240:16	presumably 40:14 136:19 137:6
	posed 9:8,19 9:23 33:5 36:9 89:17		practitioners 33:20 139:12,17 139:23	prescribed 37:18 65:25 181:7	presume 108:7
	position 9:2 11:5,7,13 11:21 12:25 76:14 89:14		precaution 189:17	prescriber 231:21	presumed 246:11
			precautions 112:19,22	prescribers 33:16 100:4 210:9 219:16	pretend 177:3
			preceded	prescribing	Prettiman 16:19 pretty 5:4 45:21 49:20 82:8,24 99:23 114:3 119:16

124:22	probability	process 9:10	production	17:23	100:12
134:16	79:2	9:11 10:3	67:2 79:18	professional	110:12
141:3,4	probably	66:21 130:8	80:3 84:5	30:19	189:17
178:14	31:21 35:8	141:10	98:19	profile	205:8,16,19
215:11	38:9,13,14	158:25	111:15	167:14,18	proof 45:7
prevalence	72:21 83:6	216:3	125:9	168:2,3,9	133:11
60:4 149:2	91:17 93:12	226:15	153:21	174:10	propensity
prevalent	98:16	227:19	160:18	175:4	34:23 35:12
136:21	115:13	procurement	162:25	216:25	proper 28:17
144:11	124:7	123:15	184:14	profiles	94:12
prevent	141:19	127:11	188:11	173:25	194:11
169:12	147:10	223:10	192:13	178:13	196:15
194:11	167:18	produce	195:9 197:3	progenitor	200:4
196:14	173:12	119:24	211:2 214:5	155:25	243:16
200:4	178:7 206:2	produced	218:4	prognosis	properly
preventative	209:5 227:2	21:8 119:21	227:23	133:25	28:15 29:9
6:2	problem	166:25	231:25	140:23,25	29:15,19
previously	19:24,25	product	234:2	141:2 143:2	31:4 32:12
25:14,18	27:15,22	11:10 14:3	235:22	program	133:18
37:16 95:6	40:9 45:4	19:15 20:19	238:11	5:17 6:11	135:17
104:15	59:4 69:24	20:19 44:4	239:2 250:5	6:12 63:21	143:12
pre-IND 69:4	72:6,10	44:7,9,10	250:7,9,11	64:3 69:17	194:9,25
price 119:11	88:21 89:17	44:20,25	250:16,20	132:25	196:9,18
prices 120:16	103:9,11	45:25 47:25	250:22	134:11,11	197:14
primary	123:7	48:4 53:4	251:4,6,8	134:17	200:9 220:6
65:10,12	132:12	55:16 72:3	251:13,15	136:25	241:5
161:19	134:25	72:20 73:15	251:17,19	137:3 185:2	proposed
162:21	135:6,12	73:17 74:2	251:21	185:3	72:19 76:15
180:3,20	138:17,18	74:10,20,23	252:4,6,8	221:21	76:23 77:7
primitive	140:19	75:7,17,18	252:11,13	programs	78:4 109:22
49:20 114:3	149:16	75:21,23	252:15,17	14:9 133:5	129:9
principal	155:21	76:4,6 78:4	252:19	133:6	prospective
43:14	175:6,9,10	79:6 100:24	products 9:4	221:20	15:19 73:3
principle	200:22	100:25	9:9 11:12	progressively	prospectively
45:7 59:24	208:22	109:17	13:20 48:21	89:2,5	73:4
119:17	231:6	110:4,7	48:22 49:4	project 8:22	protect 71:14
168:9	problems	112:17	49:9,15,17	95:12	71:17
principles	27:12,18	115:5,5,17	49:19,19	145:13	protective
34:4	32:7 34:24	116:7,23,25	74:14,16	250:15	67:10,11
printed	133:19	117:5,19,25	78:23 98:16	projects	protocol
151:11	135:15	122:23	114:5	10:10	93:14 99:5
prior 7:14	139:16	159:25	116:14	promising	99:16 100:2
31:11 73:10	142:3,7	169:24	117:7,19	219:9	103:8 148:4
92:13	181:22	175:20,22	119:7	promo	148:5
108:13	191:5	176:3,8,9	154:12,13	206:20	protocols
219:8	211:23	176:25	154:15	227:7	88:9
prisoner	212:8,12,21	181:4	176:11,12	promotion	prototype
150:20	215:2,4	216:17,18	176:16,24	19:16,22	45:2
private 43:18	219:25	220:22,22	179:12	226:21	prototypica...
PRN 176:14	222:8	228:25	187:2,14,19	227:8	121:2
236:13	procedure	236:9	191:16	promotional	proud 122:21
pro 40:20	24:2	251:11	product's	19:9,20	proved 122:6

151:21	publications	188:25	Q	237:8,18	213:12,17
152:10	62:14	191:19	QDP4 139:24	241:4	213:18
proven 233:3	182:20	198:14	QID 167:14	242:14,21	
233:8 246:4	published	199:11	175:17	questioning	R
provide	33:21	201:19	177:24	4:17	R 2:2 3:7
14:11 31:17	104:15	204:22	178:5 184:5	questionnai...	58:8 95:2
115:4 117:4	147:22,23	205:7,20,23	184:11	51:8 84:24	249:2
224:2	purchase	207:11	186:20	questionnai...	RADARS
226:11	220:21	217:21	214:12	51:11 80:19	63:20 64:3
238:18	purdue 1:9,9	218:11	215:24	questions	64:4,9,9,10
244:23	1:9 3:3,4,4	228:5,5,11	qualificatio...	4:10,18 5:8	radiation
provided	3:15 7:7,8,9	237:22	135:20	43:19 64:24	222:18
33:25 114:9	8:11,12,14	Purdue's	quality	75:6 81:12	ran 14:10
114:14	8:17 10:23	84:19	141:14	85:10,11,12	121:16
152:3,17	16:4,4,11	108:10	143:5	93:16 179:2	202:25
153:8,16	16:11,12,12	162:22	165:19	191:6	randomizat...
156:2	16:14 17:2	228:9	202:3	240:24	174:12
162:14	17:3,4,18	pure 54:8	question 4:13	241:9,18,23	randomize
163:20	20:2 21:8	purity 14:3	13:10 18:2	241:24	138:21
164:12	24:17 25:11	purple 75:10	22:13 28:14	245:6 247:2	range 54:8,9
177:18	43:23,24	purported	28:25 31:7	quickly 67:5	54:10 149:4
178:3	44:3,12,13	165:15	37:4,6 56:7	quite 27:20	182:23
223:12	48:17 50:3	purpose	58:25 61:21	89:12 106:2	217:7
229:4	50:6 52:15	100:16	61:22,24	106:4	ranged
providers	55:11 63:21	126:20	62:2 63:15	quote 128:15	172:13,16
33:25	66:20 67:17	purposes	63:17 64:22	quotes 99:10	ranges
providing	68:8 74:9	56:10 68:9	68:11,12	219:12	101:13
45:8 71:11	75:12,16	83:11	69:20 82:10	223:7	rapidly
Prue 192:17	76:6,9,11	104:14	83:16 84:21	225:13	119:15
pseudoaddi...	77:3 78:3	123:16	84:22 96:19	Q12H 175:14	137:14
59:23 60:4	79:8 81:18	127:12	105:25	182:14,18	rare 62:6,6
Psychiatric	82:3 83:12	223:11	106:17	182:22	62:11,11,16
143:7 214:8	84:25 88:10	pursuant	112:2,3	183:22	123:23
psychologic...	91:16 95:24	1:17 21:9	113:18,19	213:20	128:6 130:4
122:24	96:21 101:8	pusher 57:20	142:10	Q4 176:12,14	131:20
123:2,9,13	107:25	put 18:24	146:16,18	177:7,8,15	133:12
123:25	115:13	19:5 35:16	147:19	186:7,12	137:19
127:5,7,9	147:13	75:9,9 96:8	153:11	215:25	139:20
127:25	152:21,23	96:25	157:13	Q4H 176:9	182:6
128:8,8	153:6,14	112:24	160:9 165:9	178:21	194:10
psychologist	156:16,21	139:3 152:2	191:13	Q6 177:8	195:2,21
221:7	157:4,11,16	152:24	204:20	Q6H 175:15	196:6,9,10
public 1:20	161:7	191:17	205:14	176:8	197:14
4:3 5:24	162:17	197:19	207:8,23	178:22	200:10,21
9:21 10:17	163:8	214:20	210:2	186:7,12,13	200:25
19:3 25:25	164:11	221:10	212:17	Q8 211:22	201:2,9,10
26:4 71:14	167:4	223:16	213:21,25	213:14	204:9
71:18	173:24	226:17,19	219:17	214:2	205:10
145:17	174:15	putting 110:2	222:25	Q8H 182:13	206:10,10
249:8	175:3,22	210:3	224:19,23	182:15,18	242:3,10,17
publication	176:3	p.m 94:15	233:7,21	182:22	rarely 201:10
194:19	185:10	95:3 247:4		212:3,4,7	rate 31:21

45:3,3	readable	15:6 23:12	69:21,23	223:13	204:18
119:2	18:23	44:22 66:20	70:13	reduced	230:22
120:19	readily	71:2 75:12	192:25	78:24 79:9	regards
133:25	103:20	77:3 78:12	193:3	233:20	16:20 19:15
134:2	118:23	79:7 87:16	216:22	reducing	23:22 44:3
135:13,15	Reading	96:14 99:11	recommen...	78:25	79:8 108:6
136:3	107:21	104:6 109:4	73:25	159:25	109:10
142:17	reads 167:25	109:8 111:4	record 4:18	reevaluate	120:7 124:6
144:5,8	ready 116:15	114:13,17	21:3,11	30:6	146:25
171:12,12	real 59:25	114:22	52:18	refer 16:11	148:3
180:14	81:15 144:5	153:6,13	249:13	35:11 132:9	155:19
182:11	146:7 188:7	156:21	records 22:8	reference	159:14
201:23	192:9	165:4	recovering	103:3	198:9
202:4 203:6	201:22	167:15	92:6	126:23	201:22
203:24	210:19,20	174:20	recruiter	127:15	233:17,18
205:9 208:6	231:8,9	178:2 184:8	8:12 10:21	148:23	234:7 237:5
rates 62:19	realistic 29:5	208:9,12,12	17:2,14	154:21	239:5 240:3
62:20	really 30:21	212:14	recruitment	173:6	240:25
207:25,25	82:20	214:25	122:5	referenced	regimen
242:21	102:16	241:24	red 192:25	129:20	181:13
rather 89:24	141:9	242:20	Reder 8:23	references	registry
131:5,6	183:14	receive 36:19	16:21,23	128:14	147:12,14
165:24	209:17	received 5:12	17:6,8	129:7,12,17	147:21,23
183:12	221:21	5:21 129:5	22:12,17	155:12,14	148:2 159:6
230:20	232:10	131:11	23:8,19	155:18	206:5,7
rating 85:14	233:21	138:2	55:4 79:21	157:16	241:3,6
ratings 53:11	235:13	receives	80:9,18	236:21	regulated
ratio 50:25	reason 24:9	57:10	87:17 88:13	referred	116:22
65:2 211:20	59:9 74:6	recent 101:17	92:8 95:14	155:15	regulation
reach 41:18	95:16 99:4	102:23	95:23 98:23	242:25	215:7
110:8	99:13	recently	99:12	referring	regulatory
139:19	124:25	72:25 131:7	100:13	49:14	6:18,25
140:7	141:14	Recess 41:22	101:16	104:25	10:6 15:15
144:10	180:23	52:20 94:15	102:22	113:14,22	16:24 18:15
221:13	185:12	144:19	108:16,20	113:23	31:13 71:12
reached	226:8 248:9	188:9	109:15,18	195:25	81:20
168:8	248:11,13	227:21	109:21	202:22	109:24
reaches 39:4	248:15,17	241:20	185:9	227:3	110:16
read 61:22	248:19,21	recidivism	188:14,21	230:16	175:7,9
115:11	248:23,25	128:3	189:23	235:4 243:3	192:16,18
130:12	reasonable	recipients	190:5,15	243:4	228:8
131:5	57:3 236:10	228:10,14	198:10	reflect 123:5	rehab 26:25
149:11	reasonably	recognize	reduce 47:22	refractory	reimburse...
151:20,22	131:13	166:14	114:10,15	142:4	100:17
154:11	reasoned	recognized	117:25	refresh 105:3	reinforces
163:19	61:4	42:22	120:3 152:4	regard	223:23
197:12	reasons 30:2	recollection	152:18	228:24	rejected
209:13	56:11 113:2	105:3	153:9,17	242:11	201:4,8
211:4,15	121:18	164:10	156:3,13	regarding	relapse 28:4
214:9 230:6	159:5 180:3	recommen...	162:15	145:21	28:11 93:19
244:21	227:6 248:6	74:5	163:21	155:15	93:23
245:9	recall 12:21	recommen...	164:13	193:8	244:19

relapsed 28:12,16	121:13 122:11,12	178:19	228:16 242:4	252:14,16 252:18	requirement 81:20	
relate 20:17 118:23 223:24	150:25 151:8 154:16,25	reluctant 209:17	reminded 211:20	reported 60:10 136:4 200:10 201:9,10 205:9 208:5	requirements 13:6 22:5 70:14 73:3	
related 53:3 57:7 82:11 120:4 121:19,21 135:25 140:11 148:4 249:16	155:8 156:9 156:24 157:7 158:4 158:9 159:15,17 159:22 167:11,19 174:2 175:5 175:15,22 176:3,17 178:4,23 179:7 181:4 183:8,12 184:3,4,10 186:25 187:13,24 191:7,15 215:9,22 216:16 224:5,11,15 225:6,7 232:21,22 232:23 233:3,5 245:2	remedicated 182:10	reminder 234:16	Reporter 1:20 249:8	requiring 230:11	
relating 104:19 105:13	remedication 182:9,11	remember 8:6,9,19 12:20,25 14:15 16:10 16:13,24 17:13 22:19 24:22 25:3 25:5 55:24 66:9,11,24 74:4,8,12 74:12 75:14 75:15 76:8 76:16,20 77:5,6,7,10 78:16 79:3 79:11,14 80:18 82:3 83:21 84:17 85:13 87:19 87:22,25 88:2 92:7,9 94:9 95:23 96:3,4,20 99:15 108:20 111:5 112:23 115:10,15 116:9 120:10,24 121:16 125:23 128:20 140:21 144:25 148:11 151:4 160:2 172:23 174:6 180:10 185:8,11 193:19 196:22,24 198:3	remission 28:16 93:20	report 214:20 232:6 233:21 235:4	reporting 207:19 208:16	rescue 180:16 180:17,18 180:24 181:15 182:2,5,8 216:17,21 216:23,23 217:3,6,12 217:13
relation 64:2	relationship 80:23 82:9	repeat 153:11 219:17 224:21 237:18 242:14	rephrase 4:12 27:12 141:24 173:23 219:19 237:20	reports 11:16 101:19 136:10 137:10 139:7 145:17 148:7 209:13 236:21 237:3,10,23 240:25	research 5:15 6:13 56:20 58:10 75:23 81:12 100:2 118:25 119:4 122:5 134:13 138:18,19 145:5 238:3	
relative 43:7 47:17 53:13 64:22 82:20 113:25 114:2 116:9 150:6 216:21	released 104:17	replacement 119:7	replete 158:17	represent 227:13	residency 5:25	
relatively 9:25 31:16 46:15 72:25 115:11 118:11 122:2,18 133:18,23 157:24 187:5 205:25 215:18	relevant 26:11 110:12 129:4 186:2	replacem 119:7	replicate 237:9	representat... 78:20	residential 121:24	
release 39:6,9 39:12,13,15 52:25 53:2 53:7,8,13 53:14,16 54:21 63:3 63:7 77:13 77:16 83:14 83:14 85:25 86:3 88:21 105:7 107:6 114:19,23 115:20 117:6,25 121:6,8,9	reliable 139:16,22	replied 190:4	replied 190:4	representat... 22:4	resistance 47:23 222:14	
relied 195:4	relief 104:19 105:13 106:21 176:10 219:13,21 219:24 220:3 222:9 222:12 224:2 244:24	report 11:14 12:5,11 84:12 95:12 98:22 136:11 148:8 184:18,20 210:25 211:8 212:2 213:4 214:4 214:7 228:8 231:24 232:4 233:25 234:5 235:21 238:10,25 240:4 241:14 250:15 251:25 252:4,10,12	reported 211:8	representing 4:8	resistant 48:17	
relied 195:4	relieve 222:22	report 11:14 12:5,11 84:12 95:12 98:22 136:11 148:8 184:18,20 210:25 211:8 212:2 213:4 214:4 214:7 228:8 231:24 232:4 233:25 234:5 235:21 238:10,25 240:4 241:14 250:15 251:25 252:4,10,12	representat... 211:8	represents 72:15 179:24	resolution 197:9 229:19	
relieving		replied 190:4	report 11:14 12:5,11 84:12 95:12 98:22 136:11 148:8 184:18,20 210:25 211:8 212:2 213:4 214:4 214:7 228:8 231:24 232:4 233:25 234:5 235:21 238:10,25 240:4 241:14 250:15 251:25 252:4,10,12	reps 214:23 237:4	respect 16:15 16:22 19:21 20:24 44:25 65:7 116:11 157:10 174:23 194:22 198:3,5 242:17	

37:5	177:18	83:10 85:7	36:18,20	1:18 3:5	168:9 174:9
response 9:25	179:16	93:25 94:14	49:6 51:4,6	role 9:13	205:4,17
27:24 32:25	205:15	97:4 99:22	64:5,6,6	17:23 65:7	221:20
180:22	208:7	101:8 102:4	73:9,9,17	71:14,15,17	salary 10:23
190:23	251:10	103:10	78:25 92:5	80:22 189:7	11:3 12:15
192:24	reviewed	105:10	92:16 93:6	roles 9:18	sales 211:8
242:20	18:10 25:17	106:2,4	93:14,15,18	rolling 158:4	214:20,23
responsibili...	65:11 66:16	109:8 111:6	94:2,4	room 25:10	218:10
15:24 97:20	78:17,18	112:14	133:3	roughly	220:24
responsible	98:10	115:22	134:15	39:20	221:11
14:16,22	109:23,25	116:8	145:22	126:23	232:6 235:4
rest 161:15	197:6,7	117:13	158:11	154:20	237:3,23
202:2	205:6	120:23	178:13	round 123:5	238:4
restless	reviewer	122:14,16	183:6,17	routinely	same 11:5
171:19	65:12 68:16	123:2,19,20	190:12	64:8	22:10 37:25
restlessness	70:4,8	124:19	204:11	rule 237:17	38:8,14,15
171:4,17	161:13,14	126:3,6,8	205:16	rules 13:13	39:11,20,25
restrictions	162:21	126:22	208:24	13:15,16	49:6 71:23
198:5,13	reviewers	127:12,21	209:2,4,6	15:17	72:7,9
226:21	66:4	128:11	209:23	run 6:23 48:5	82:12 86:18
result 36:18	reviewing	135:19	210:5,10	55:9 221:21	102:10
94:8 181:19	83:21 86:15	137:5 138:3	219:24	running	107:5,10
181:19	reviews 65:10	140:4 142:2	222:12	103:7	111:9 112:8
results 52:10	161:12	143:23	233:20	241:13	119:23
53:6,10	162:10	144:21	246:20	rural 141:21	123:10
80:24 83:22	166:10	149:21	risks 9:8,19	rushed	127:23
86:16	revised 70:11	154:6 166:4	9:21,23	137:14	129:14
103:19	160:22	167:23	33:5 133:7	Russ 141:17	140:6 151:2
106:8	161:11	168:16,17	133:7	Russell	151:9 162:4
122:21	193:2 197:7	170:13	141:19	211:10	168:12
resume 20:15	revising	173:10,12	204:14	Rx 234:13	176:13
resumed 95:6	189:4	178:9,11,11	227:13	235:5,7	193:17
review 11:22	revision	180:4	Robert 12:12	239:7,17	203:18
11:24,24	161:12	182:24	88:16		221:15
62:4,4	163:9	186:8 196:7	101:16	S	227:18
66:16 68:24	188:21	198:24	102:22	S 2:2 95:2,2,2	229:12
69:2 70:7	189:8	208:13	108:16,20	250:2 251:2	231:4
70:12 71:20	revisions	214:24	109:15,18	252:2	239:10,21
84:13,15,19	192:5	221:2	109:21	safe 72:20	239:22
93:4 97:10	rhinorrhea	225:15,17	188:14	73:12	sampling
97:20	171:5,18	229:17	189:23	safely 93:7,11	144:11
128:21	RICHARD	232:11	190:13,24	108:7	Santa 189:24
145:20	3:14	235:8 240:5	191:11	safety 13:20	sat 139:12
148:16,17	Richards	241:10	Robins	15:9,11,12	satisfactory
157:12,25	189:25	246:15	136:16	20:3 22:3,6	92:2
158:25	190:10	rightly	140:16	22:7,14,15	saw 49:3
161:19	198:10	220:11	202:6	22:16,20	120:17
165:3,5,8	right 4:25	Ripa 55:19	208:10	47:21 51:3	129:15
165:10,21	10:15 21:12	rise 119:2	robust 71:8	75:6 139:21	203:5 206:6
166:17	41:21 45:3	risk 9:4,6,12	robustly	166:18,19	saying 52:11
167:3 172:7	61:15 62:2	10:3 11:18	78:22	166:21,24	86:2 92:7,9
172:10	70:10 76:2	30:24 36:10	Rockefeller	167:5 168:3	96:15

112:10	193:11	134:3	111:17,18	148:23	211:5,7
134:7 135:8	194:8	school 5:16	112:16,19	150:16	218:7
139:24	195:18	34:5	112:20,22	154:10	222:19
141:23	196:10	science 45:6	112:25	155:14,18	select 231:21
143:5	200:2 212:3	48:17,19	113:9 125:7	163:23	244:16
158:22	212:7	49:18,23	126:23	165:18	selected
164:18	213:12	71:21 72:11	127:4	167:8	50:11
168:14	217:23	119:11,13	150:17	170:20,23	106:25
194:23,24	218:2,16,24	155:19	153:23	171:15	202:10,14
202:24	219:4,6,12	sciences 46:8	154:3 155:6	172:11	202:16,16
210:8,12,12	220:3 223:4	scientific	155:12	174:16,25	206:18
217:22	223:7,21	26:10 42:11	162:11	179:18	208:13
240:14,19	230:6,14	58:6 71:8	163:17	193:9 194:2	236:25
242:20	232:9	71:13 72:10	170:4,11,14	194:4	selecting
245:20,21	233:19,19	140:18	173:19	195:16	208:15
245:23	234:10	153:7,15	186:6	199:5,12	selection
says 62:10	235:25	scientifically	193:25	200:2	243:24
68:12 69:12	241:25	19:11 41:8	195:13,14	205:19	selective
70:19 73:24	scale 134:14	222:6	197:12	219:2 223:3	202:11
76:14,25	scales 51:15	scientist	199:13,15	223:15	Self 56:9
87:4 91:21	scandalous	55:10	199:18,20	224:6 230:4	sell 227:9
95:16,19	99:24	scientists	199:21	234:12,25	selling 72:20
99:4,6,7	scattered	6:13 15:16	211:16	236:20	226:12,18
102:21	243:18	216:15	212:2	237:4	send 192:8
107:22	schedule 35:4	score 85:13	214:10	seeing 23:12	230:21
109:3 113:9	35:7,16	scores 85:16	228:22	74:11 77:7	senior 27:3
114:5,8	45:17,19	86:24 87:9	230:18	113:4	49:2
125:14	46:3,5,6	scoring 58:12	234:10	114:22	Senokot
126:11	77:24,25	58:14	239:6	151:4	234:16
127:4,8,13	78:8,10	screens 204:8	sections	174:20	sense 130:13
127:25	108:18	second 52:15	65:25 66:5	193:19	sensitive
128:5	109:2	80:10 161:9	66:15 67:6	228:16	198:14
131:23	113:12	173:18,19	91:13	seek 30:13	sent 79:21
138:2	154:15,17	180:2	see 22:24	34:24 35:12	80:9 190:5
148:23	186:21	184:19,24	23:8,17	132:5	190:6
149:2	193:17	192:23	45:7 50:16	143:21	220:10
150:17,20	244:11	195:23	50:16,21,25	173:24	228:9
161:10	scheduled	196:12,16	51:3,5	244:4	sentence
162:13	40:12	197:20	72:16 73:11	seeking 90:16	69:11 88:5
163:12	116:23	219:25	73:12,14	seem 83:21	102:22
167:22	154:13	secondary	83:19 85:16	152:8	107:21
168:19,23	schedules	172:2	86:23 87:3	234:23	112:14
170:18,23	244:7	secretary	91:21	237:8	113:13
171:16	scheduling	11:19	100:15	seems 105:15	114:4,8,13
172:11,16	35:9 77:22	section 66:3,6	101:14	128:12	122:22
175:19	78:15	90:22 95:18	102:12	seen 20:10	127:25
179:19	218:24	95:25 96:9	103:3	38:21 61:14	128:5,12
183:10	schizophre...	96:16	126:10	64:25	149:12
184:23	134:2	103:23	130:20	130:21	151:7
189:22,25	140:23	109:21	131:22	148:6,7,8	152:16,24
191:14	141:2,4,9	110:4,5,7-	138:23	190:20	162:17,19
192:24	schizophre...	110:10	143:18	196:19	163:19

167:7,21,25	Services 3:16	234:14	112:12	214:7	16:8 22:2
168:23	sessions	235:6,11,17	113:11,14	sitting 142:19	23:9 27:17
177:22	24:21,22	236:3,9,13	127:18	240:14	32:9,21,22
186:5	25:4,6,11	238:19	168:4	situation 91:3	32:22,23
190:25	set 139:17,22	239:7,14,17	190:19	189:19	33:17 37:8
191:16	140:11	239:25	simple 90:10	six 12:10 18:9	40:20 42:2
194:4	172:23	240:15,20	99:9	71:24 172:3	43:8,24,25
195:23	178:11	shoved	simply 85:14	181:24	44:22 45:9
196:12,16	249:11,20	162:21	162:19	size 37:20	47:10 49:5
196:16	sets 13:5,13	show 78:22	187:16	86:21	51:2 53:24
197:10,20	setting	79:12,15	244:22	185:21	56:10,15,23
197:22	181:21	84:15 87:12	since 10:25	skip 218:23	57:11 58:23
200:2,7	246:15	95:10 101:2	37:23 44:13	slanted	59:7,21
220:2,3	settings	125:4	73:8 74:20	146:22	60:14,15
223:5	138:24	148:13	83:17 93:5	sleep 171:19	65:11,13
225:14	173:20	160:11,12	120:20	224:3	68:3,7,12
230:5	228:24	185:19,22	131:6	244:24	72:2,3,18
244:21	seven 15:9	207:4 236:2	187:19,22	slightly 65:5	72:18 74:25
sentences	18:9 148:24	showed 119:2	229:20	165:12	76:17 78:13
223:15	168:21	156:18	single 45:24	167:12	78:14 79:5
sentiment	172:18,21	236:19	86:5,6	sloppy	80:14 81:12
176:24	172:23	238:20	92:18,19	233:22	83:21,25
separate	several 9:18	showing	104:16,25	slowed	84:23 89:11
57:22 65:19	18:20 42:25	108:5 184:9	105:5,6	119:25	92:3 95:24
92:24	43:2 51:10	shown 38:18	147:5	158:9	97:6,19
112:19,22	66:8 193:5	146:10	154:12	slower 118:8	98:9,12,13
210:4	220:5	159:19	173:2	119:14,20	99:23 100:8
separately	severe 118:12	shows 147:6	181:23	small 7:18	100:11
65:20	137:17	sick 32:3 81:6	186:23,25	160:13	106:5 109:5
September	141:8 175:9	side 35:11	187:13,18	180:18	115:22
68:4 69:10	222:17	61:13,16	187:21,23	204:14	117:4
79:24 80:9	225:25	sign 18:13	203:19	smaller	118:10
184:20	230:11	signed 165:21	223:5 229:3	180:18	119:6,9,12
series 4:9	231:10	significance	230:5	216:23	120:20
6:23 50:15	236:22	18:16 110:2	single-hand...	smoked	121:4 124:5
79:21	severity	significant	141:20	118:16	125:11
134:21	171:20	15:2 71:19	sir 5:12 8:3	120:14	132:9
171:4	SHANE 3:16	75:6 84:18	25:24 35:6	soap-boxing	134:12,12
202:23	share 146:5	85:17	69:6 84:21	81:14	137:9
203:5,15	sheets 205:4	115:23	85:8 100:22	social 36:15	139:15
208:16,18	short 95:20	116:4 149:8	111:20	40:9 246:15	141:24
serious 73:2	131:6	172:24	117:22	society 32:8	151:20,21
88:20	167:23	181:12	144:24	33:23 40:9	152:14
204:12,15	188:5,7	185:25	150:16	124:21	168:22
seriously	239:10	significantly	175:16	139:24	171:3 173:6
99:23	241:19	40:18	180:5	243:21	173:21
serve 217:6	shorter	signs 123:25	184:21	soft 119:11	174:11
served 5:20	177:13	128:7	192:21	155:19	175:23
21:5	shorthand	SILBERT	197:17	solely 230:19	176:16
service	1:20 235:7	3:14	232:2 234:9	solid 36:7	177:5,16
130:11	249:7	silly 237:14	site 199:11	some 4:18 5:8	179:13
203:2	short-acting	similar 109:9	Sitler 211:13	8:14 10:10	182:19

188:21	191:17	176:13	63:15 67:6	46:17 51:14	223:8
189:4,15,20	something	177:20	108:9	81:10 115:4	229:25
202:9	4:15 52:16	206:21	233:14	176:15	statement
203:17	59:23 92:7	215:13	specificity	177:6 186:3	115:12
204:14	94:9,10	235:7	58:17	standards	129:10,13
211:23	96:9 103:2	sought	208:20	178:6,7,18	129:14
212:8 216:2	107:17	130:11	specified	182:3	152:15
216:15	117:15	173:22	225:23	193:17	159:10,20
218:22	129:5	190:18	speed 37:9	standpoint	160:5
223:19	134:18	sound 126:2	118:22	45:21 64:13	162:13
224:14,24	145:14,15	126:5	speeding	175:7	170:18
224:25	158:15	173:10	120:14	Staples	183:10
231:11	160:11	219:15	spend 65:24	214:11,19	195:21
233:12,13	166:4	sounds 111:6	66:2 86:15	start 32:20	196:5,10
240:23	175:11	126:7	122:3	63:10	200:17
241:8	207:10	sources 19:6	232:10	124:20	217:18
somebody	something's	Spalding	spoke 8:15	158:22	222:4
37:22 50:23	61:16	99:7	sponsor	170:16	241:25
51:4,16	sometime 8:9	speak 71:15	15:24 92:19	190:2,6	242:5,8,15
65:23 83:7	sometimes	speaking	94:10 99:24	204:4	245:9,12,15
122:13	18:9 27:25	49:25 61:8	110:6	started 8:7,8	245:18
132:15,16	57:7,24	67:16	185:16	48:16 58:25	statements
143:11	71:15	special 82:15	195:16,18	121:15	70:5,8
181:25	137:18	82:16 93:14	196:10	188:16,18	209:20
208:25	164:21	124:16	230:25	starting	statement's
209:2,4,6	177:8,8	185:3	sponsors	81:25	246:20
216:13	203:4,4	specialist	71:21 113:3	170:13,17	states 1:2
221:7	208:14	11:18 27:9	159:21	171:15	13:14 30:8
somebody's	215:17,18	60:12	spray 116:13	173:18	33:23,23
57:25 65:22	somewhat	192:18	sprays 36:6	228:19	88:4 101:16
93:22	32:10 35:3	221:7	spring 189:3	starts 56:9	103:25
217:10	47:2 53:22	specialists	189:8 192:6	57:10 80:10	107:22
somehow	111:12	15:15 59:22	ss 248:3	167:7	108:15
63:24	176:16	149:24	249:4	199:25	145:7 149:7
115:16	206:18	specific 9:22	stable 10:19	startup 7:18	200:7 224:2
someone	somewhere	41:9,10	72:16	10:14,15	239:6
27:22 28:4	12:18 76:12	44:23,25	staff 13:4	state 1:21	Stating 75:16
36:18 38:3	164:25	60:13 69:16	14:15 15:4	29:22 30:22	statistically
42:16,18	203:8	87:25 91:8	15:5,10	34:2 37:21	185:25
56:18 57:11	sophisticati...	105:15	66:4 67:22	143:4 180:2	statistics 26:9
58:5,19	113:24	125:7	68:24 97:14	180:13	status 230:20
59:3,9 61:6	SORRELS	154:24	117:3	186:6	statutory
86:10,12	2:12	155:7	157:25	230:19	98:11
121:11,24	sorry 29:8	157:21	237:23	234:13	stay 202:7
135:6	147:18,25	164:10	stage 10:20	235:2 248:2	step 32:5
139:17	160:16	166:25	117:8	249:3,9	107:19
177:14	179:17	174:23	stamp 68:2	stated 104:18	177:19
185:21	191:10,10	191:8 198:5	stamped	104:21	steps 30:17
226:20	194:24	209:10	67:10	108:16	30:22
someone's	sort 9:16 32:9	210:8	stand 145:4	126:23	Steve 55:19
59:11 243:8	47:11 62:8	225:13	standard	205:8	Steven 232:7
someplace	127:17	specifically	19:8 45:14	211:16	235:24

238:12	57:18	103:24	72:7 84:21	222:8	144:7
239:3	119:11	105:12,15	85:23 86:13	submission	suggest 152:8
still 45:20	strength	109:23	86:17,24	69:18 70:23	154:19
55:11 71:16	83:22	110:6,8	89:25 92:12	77:10 84:20	167:11
78:3 93:16	203:23	117:23	92:24 93:2	126:16,17	suggested
103:7 108:7	strengths	118:19	99:8,9	126:18	84:24 91:25
144:4 146:6	16:8	120:7,19,25	100:7,15,16	192:17,23	108:16
159:11,13	stress 58:10	121:22	100:19	193:20	119:5 150:6
197:11	stressed	122:6 129:2	101:18	submissions	153:2 192:5
198:4	141:20	134:20,21	102:24	15:15	193:5,7
200:25	strict 24:2	134:22	103:5,13,21	submitted	196:23
216:5	strike 226:5	135:25	104:13,15	125:17,21	197:18
231:13	strike-out	136:9,11,13	104:16,18	125:24	198:11
233:2	192:25	139:11	104:24,25	153:7,14,24	suggesting
stock 10:15	195:15	140:15	105:3,4,5	155:5 156:7	75:2 236:8
stop 52:14	strong 83:6	146:24,25	106:8 109:6	156:22	237:8
strategy	89:14 97:14	147:16,22	109:19,20	165:19	suggestion
42:15	97:21,23	147:25	110:3,3,5,7	167:2,4	70:25 78:13
strauber 3:6	98:2 116:21	148:24	121:15,17	176:21	108:21
13:9 14:19	118:14	149:14	121:20	205:5	239:13,24
16:15 17:25	strongly	154:19,24	132:19,24	Subscribed	suggestions
21:2,14	119:5 143:3	155:7,15	138:20,25	247:7	30:12 68:7
31:6 37:3	216:11,12	156:16,21	144:8,10	subsection	107:16
41:18 52:17	studied 32:4	157:3,8,9	147:5,12,14	111:22	161:12
61:20,23	60:3 144:7	157:11,12	147:20,20	subsequent	169:11
63:8 67:9	150:24	159:8	147:21,23	18:25 43:17	174:16
68:10 83:15	151:3,10,18	162:10	147:23	43:21	243:18,20
96:18 104:8	152:9 156:8	167:8,10	148:2	subsequently	suggests
105:24	158:18	168:22	151:23	193:13	105:11
108:3	167:19	172:13,18	159:6	subset 56:5	Suite 2:4
111:25	207:25	172:25	185:23	210:9	sulfate 38:24
112:4,10	studies 9:24	173:2	203:11,20	substance	39:5
113:17	11:11 14:6	174:13	206:5,7	5:22 25:23	summaries
136:5 140:7	14:12 15:18	175:14,23	208:4 229:3	26:3,8	157:14
142:9,14	15:21 41:9	178:21	241:10,13	27:15 28:5	summarize
146:13	41:10,14,25	180:4,13	stuff 192:8	92:4 113:12	166:21
149:11,18	42:7,8,9,16	183:21,24	207:14	116:24	summarizing
150:12	44:15 45:5	184:2,7,8	stunk 103:2	150:7	220:12
160:15	45:6,13	185:4,6,18	subject 41:16	154:21	summary
169:22	46:14 47:3	202:5,9	66:15 67:10	212:11	19:4 84:8
188:4,8	47:4,5,6,8	207:19	77:2,14	substances	125:14
199:6,22	47:11,13,16	208:10	200:18	31:12 33:17	166:17,19
204:19	50:2 51:3	229:20,21	218:16	35:9 116:22	166:24
205:13	52:2,5 63:5	230:2,7,15	223:22,24	154:14	167:5,9
207:22	63:10,14,16	230:17,17	224:14	178:12	174:8
213:7,14,21	65:11,13	230:25	subjective	substantial	179:17
224:18,21	68:22 76:12	study 50:21	42:17,19	180:14	183:5
233:6 237:7	78:14 80:6	52:8 54:20	43:3 50:9	substantially	summer
237:13	80:16 81:2	54:24 55:9	51:7 120:3	53:12 116:6	122:4 192:6
241:4,16,21	82:23 83:11	55:9 70:20	subjects	succeed	sums 100:4
245:5 247:3	89:4,9,10	70:20,22	83:19 154:6	91:17	sundry
street 2:9,13	89:11 102:7	71:2,21	subjunctive	successfully	116:13

Sunshine 105:8,10	140:10 142:14	93:24	152:3,17 153:9,16	takes 54:6 57:2 86:12	231:14,15 240:25
superior 12:13	143:22 146:3	swollen 90:12	154:16	222:20	talking 37:14
superiority 173:22,24	153:13 164:18	95:6 247:7	156:3	taking 28:20	37:15 38:3
174:14,21	178:10	249:12	162:14	28:24 32:17	55:20 60:14
185:7,17	187:16	symptom	163:21	33:8 46:20	60:16 63:8
186:2,3	188:3 192:7	57:24 58:3	164:13	51:24 59:3	75:8 79:25
supervising 44:15 64:10	205:11,23	symptomatic	176:14	59:6 60:17	87:22 88:2
supervisory 97:20	206:12	127:20	183:8,11	86:11,12	103:9 108:8
supplements 157:15	207:11,14	symptoms	190:17	89:13	109:4,7
supplied 65:25	237:20	50:24	213:19,22	118:14	123:6
supply 55:7	246:5	168:20,20	213:24	145:22	128:23
support 12:4	surgeries	169:15,16	223:12	146:11	134:4 141:9
14:12 78:15	107:8	171:4,8,20	225:16	181:3,6	141:15
104:19	surgical 5:19	171:25	232:12	201:24	173:18
105:12	104:20	172:6	tabs 236:4,11	204:11	198:9 210:7
127:15	105:13	215:19	tag 234:12,25	205:21	217:8
129:8 153:7	surrogate	syndrome	take 22:22	207:6	221:22
153:15	246:11	132:22	24:3,18	213:10,20	240:9,10,10
156:23	surveillance	171:2	30:3,17	216:16,21	talks 69:7
157:17	77:18	syndromes	31:19 32:9	217:10,12	223:18
225:2	134:11,15	105:16	41:19 42:18	246:9,14	Talwin 75:4
supportable 183:16	136:25	142:4	52:3 59:9	talk 22:18	tamper 47:22
246:4	survey	231:17	81:25 90:13	25:13 38:23	48:17
supported 26:23	119:10	244:6	122:19	39:16 56:19	tampering
supporting 20:4 108:17	128:17	synonymous	125:5	62:18,20	116:18
109:23	200:23	91:4	138:20	115:16,18	target 219:8
Suppose 207:17	204:3	syringe 31:18	140:8	125:6	221:24
supposed 143:17	surveys 129:2	syrup 46:6	144:17	141:13	targeted
sure 18:2	155:19	syrups 45:25	166:20	149:18	233:14,16
30:14,19	204:9	system 31:25	181:9,18	155:23	targets 114:5
31:10 37:8	suspect	58:12 119:3	188:5	158:22	tasked 22:7
59:20 62:8	187:25	141:11	211:24	160:13	193:22
73:6 76:22	SUTHERL...	142:16	212:5,9,16	196:4	teach 6:24
77:19 84:12	3:9	143:12	213:17,18	206:14	221:14
105:2,18	suzanne 1:19	210:15	213:19,24	214:21,22	teacher
107:14	4:4 249:7	systems	214:13	220:24	221:14
108:12	249:23	58:14 77:18	216:17	221:11	team 13:3
110:19,24	swallow	T	217:4	232:11	14:14 65:9
111:11	222:21	T 2:15 95:2	241:16	243:22	65:14,15,17
129:7	Sweating	249:2,2	244:14	talked 34:8	65:18 95:12
	171:22	250:2 251:2	taken 1:17	41:24 90:14	97:10 101:6
	swelling 90:7	252:2	23:17 41:22	93:18 96:5	101:7
	switch 71:22	table 62:10	52:20	109:9 124:3	161:15
	93:22	84:7,20,22	121:11	128:4	162:7
	177:11	tables 174:8,8	135:3	130:23	193:22
	178:7	tablets	144:19	131:2	250:15
	229:22	101:19	151:13	135:20	technical
	switches 71:7	102:2	158:25	143:15	15:10 42:12
	switching	114:10,15	188:9	174:4	50:4 121:18
		127:13	227:21	177:22	140:21
			241:20	230:17	technically

45:7	32:16 35:18	59:10,11,13	222:18	94:11	233:9,12
technologies	35:20 39:3	59:19,21	236:18	100:13	241:18
46:18	40:8 41:12	61:2 68:9	238:20	104:4 108:7	246:20
technology	62:17 93:3	76:17,18,22	239:9,19	108:23	thinking
42:20 48:23	93:4,21	89:7 95:25	240:11	110:21,22	10:20 58:24
48:24,25	95:25 96:5	96:2 100:24	thermometer	111:2,21,22	59:4 72:14
49:12 75:4	98:6,8	100:25	51:16	113:21	82:24,25
75:5	109:4 116:3	106:9,10	they'd 51:8	114:25	91:2 113:24
teleconfere...	120:14	109:22	125:22	116:14	117:2,8,9
228:11	122:25	115:16	thing 22:10	117:9,18	190:9
telegraphic	124:4	122:4 133:7	32:17 94:12	119:16	thinks 70:9
234:21	127:19	136:3	143:23	120:23	214:22
235:13	138:6 167:4	137:11	221:15	122:21	thinly 100:3
telephone	173:25	144:16	things 22:8	124:3,7	thinner 37:23
22:9 95:14	174:21	146:12	32:14 33:17	127:18	third 88:5
100:14	terri 1:6 4:8	147:8 155:6	34:16 36:17	128:4,22	161:24
198:7	terribly	155:6	37:21 51:23	133:10	182:9 197:6
tell 5:10	231:8	159:25	58:22 60:14	139:3,13,14	though 45:19
10:22 22:17	tertiary	167:3,4	68:12 91:15	140:4 143:6	75:16
28:19 50:14	133:21	181:14,14	115:7	144:9,9	104:14
50:17,18	test 14:2	181:25	122:20	145:13	140:12
53:15 55:6	42:25 73:10	204:18	140:22	146:17	149:17
93:10	75:25	205:21,22	142:21	148:10	155:21
102:12,19	229:10	207:4,6,7	143:5,17	158:18,23	188:7
103:20	tested 62:23	207:25,25	145:9 164:7	159:2,3	231:16
158:12,15	73:5 87:17	208:14,14	165:13	162:9	thought 9:16
162:20	89:23	209:22	171:22	163:12	37:13 58:16
208:2	159:13	210:6,9	206:22	164:2 165:6	64:22 92:22
240:17	229:13	212:22	208:24	174:16,24	92:23 96:23
244:22	testified 4:4	222:22	221:19	177:15,20	132:16,20
telling 186:10	95:7	225:17	231:16	182:15	139:9
tells 33:5	testimony	230:19,20	237:14	184:6,12	147:24
213:4	246:23	230:20	think 4:19,21	186:14	185:4
ten 44:18	249:13	233:22	10:24 11:4	187:8	191:11
47:3,4,4,5,6	testing 13:19	237:5	12:18 16:18	188:23	197:15
57:13 85:6	14:2,4	244:14	19:25 22:21	189:10,19	201:25
97:16,24	98:12	themselves	23:20 28:19	194:20	203:3
105:2	tests 13:23	56:17	28:23 29:4	196:24	206:13
138:22	Texas 2:14	theoretically	33:19 40:16	198:23	214:21
tend 102:15	text 131:22	168:2	42:12 46:3	200:24,24	215:14
141:11	193:2	theories	47:8 48:5,9	200:25	223:5
173:3	Thank 79:16	216:2	49:22 58:6	202:2	228:11
tens 21:8	241:15	therapeutic	59:8,24	209:23	thousand
term 35:8	247:3	35:23	60:17 62:2	210:2	70:21
59:23 60:2	Thanks	209:17	62:15,16	220:15,17	thousands
93:19	190:24	therapeutic...	67:6 75:7	220:19	21:9
140:21	their 6:24	40:15	76:5 78:18	222:24	three 6:16
148:5	13:20 25:7	therapy	79:13,24	225:11,14	12:14 14:25
155:25	25:14 34:2	14:11 30:5	82:7 84:8	225:18,23	24:21,24
terminology	36:14 39:10	30:7 32:21	84:14,14	226:15	60:19 68:2
96:23	46:22 51:6	32:25 33:12	85:12,13	228:18	121:25
terms 28:3	53:25 56:19	33:13 150:6	86:7 94:6	229:6 230:9	161:18,21

206:22	10:15,18	206:8	tolerant	132:19	113:6,6
236:24	11:10 12:4	208:13	59:14	transcripts	115:8
three-quart...	13:3 14:17	224:15	TOLL 2:3	25:18	121:23,24
52:9	14:20,24	225:23	tools 83:18	transdermal	124:18
three-year	15:3 18:24	228:18	top 62:24	36:8	132:8
241:3,6	21:6 26:19	229:12	120:18	transference	137:12
threshold	28:11 37:2	234:20	183:14	128:18	138:22
110:9	38:22 39:3	247:4	200:2	transmucos...	141:4 142:5
through 19:3	39:10,18	times 12:2	topic 60:13	36:8	143:12,16
22:14 67:3	43:16,17	25:12 86:19	63:6 74:14	treat 26:12	171:24
79:19 80:4	48:19 49:6	174:3	74:16 93:6	26:15 90:7	180:8,15,20
84:6 90:18	55:8 62:22	201:15	total 86:2,17	90:7 141:8	210:17,21
96:11,11	65:24 66:2	timewise	87:8,10	142:23,25	215:5,6
97:11 101:4	67:12 70:12	24:18	172:14	143:8,9,11	222:16
111:16	71:5,15	timing	178:25	143:14,18	243:16
116:8,11	72:12,22,24	116:10	179:21,23	144:12,13	treatments
125:10	73:7,8,13	title 218:19	179:23	144:14	92:20
131:5	77:19 78:10	titrating	touched	193:15	tremendous
139:25	81:19 82:25	214:16	229:6	220:6 236:2	62:3
141:10	86:15 88:17	titration	tough 93:16	242:23	tremendou...
153:22	88:22 90:17	180:15	93:21 143:8	243:2	14:24
154:11	91:2 92:11	211:22	143:9,11,14	treatable	trial 33:12
158:16	92:18 93:5	tobacco	240:7	123:17	75:24 93:10
160:19	96:10 97:25	116:14	toughy 40:21	treated 26:20	93:12
184:15	99:22 104:9	today 4:9 5:5	toward	27:2 28:7	102:18
192:14	107:7 108:4	20:22 24:13	146:22	28:15 34:20	167:20
197:4 203:2	115:6,22	24:19 45:5	towards 26:2	72:2,4,5	177:10
215:18	116:9,10,20	59:2 83:23	83:10	90:24 128:2	trials 6:25
216:14	117:13	93:8,16	170:20	135:16,17	9:14,20,22
218:5 224:3	118:4,10	143:15	172:11	141:17	20:18 87:23
226:14	119:2 120:8	169:8 178:6	199:13	144:15	89:15 90:22
227:9,18,24	120:20,20	187:15	220:21	210:15	92:16 133:8
227:25	121:10	today's 75:5	Tower 2:4	212:10	150:18
228:9 240:4	126:14,15	178:18	toxicity 47:21	242:11,18	177:9,11
243:19	129:23	together	traded 31:25	treating	179:22
244:25	130:10	65:21 139:3	Traditional	27:14,20	182:13
250:6,8,10	133:17	221:10	185:18	30:9,10	228:22,22
250:12,18	143:21	223:16	train 42:19	91:4 143:6	trickier 49:23
250:20,22	145:7 146:4	226:18,20	training 5:11	143:13,19	tricky 58:5
251:4,6,13	157:16	told 78:19,20	5:21 6:11	143:20	106:13
251:17,22	161:17	107:24	6:17 7:3	144:3	tried 122:13
252:6,8,9	163:24	134:18	18:16 25:22	214:24	134:9 139:5
throughout	164:17	145:15	26:7,9,10	treatment	174:25
92:22	169:6 176:6	185:15	34:3,4	5:22 26:20	trigger
237:14	176:19	210:19	137:20	27:24 28:17	246:15
Thursday	178:17	tolerance	140:22	30:4 33:11	trouble 32:24
189:22	180:2 182:5	57:13 60:18	218:9	33:22 58:21	46:10 70:3
TID 213:25	182:25	123:24	220:10	59:20 61:2	133:22
214:12	185:14	124:4,24	221:7,18	62:18 91:9	181:11
tighter	186:15,24	128:6,9	227:8,17	91:14	199:16
218:25	187:12	132:15	Tramadol	102:20	210:16
time 8:24	191:3,4	170:4 244:2	39:24 79:22	105:21	troubling

72:8 207:10 207:15 trough 167:12 troughs 179:9,10 true 50:16 107:10 139:10 151:21 159:11,12 165:19 200:11,15 200:19 242:6,11,17 244:23 245:3,4,8 245:20,21 245:23 246:5 249:13 truly 40:16 96:3 112:8 152:25 153:18 221:8 227:20 trumped 129:25 trust 206:9 try 4:12 8:13 10:2 18:21 19:19 29:17 32:9 47:18 60:21 62:8 62:18 81:23 92:5,15 113:2 117:4 123:5 133:5 134:8 139:2 141:24 156:19 177:11 221:12,24 237:20 trying 9:8 40:10 43:4 43:6 45:6 47:17 52:5 62:20 103:19 106:7	115:14 127:23 134:22 135:11,21 142:15 164:24 220:19 221:14,22 turn 76:13 127:3 188:4 241:11 turned 49:23 121:17 turning 20:13 67:25 135:13 twelve 18:10 71:25 twice 86:19 86:22 175:14 178:20 181:9 185:25 216:17 two 10:16 25:10,11 47:18 52:8 58:22 64:24 66:9 86:25 103:19 113:23 121:25 128:13 131:17 132:14 139:11 149:23 163:3,11,14 169:17 172:3 176:14 179:2 180:3 184:18 208:23 211:20 223:15 225:14 two-thirds 182:9 two-week 172:25	Tylenol 46:5 type 44:11 108:21 typed 69:10 types 243:2 typewritten 21:14 typical 96:16 <hr/> U <hr/> Uh-huh 68:5 127:6 188:23 194:14 196:21 ultimate 15:23 18:12 unbalanced 174:11 227:15 uncertain 27:23 uncertainty 203:16 unclear 64:17 uncomfort... 27:21 uncommon 29:7,10 62:6 122:18 133:7 187:5 196:19 200:25 201:2,5 220:8 under 9:5 57:3 65:13 73:24 75:25 95:18 99:7 103:23 106:17 112:17,18 154:13 167:22 172:5 173:15 177:22 183:5 197:11 199:19 225:12 237:17	underlined 124:15,17 162:12,20 underlying 240:5 underneath 112:15 113:9 127:7 154:9 167:9 172:10 199:14,18 199:24 undersea 5:22 understand 4:11 18:2,4 28:25 37:4 37:6,7 70:15 85:22 86:13,16 135:21 141:23,25 160:9,12 193:15 220:9 224:20 238:22 understand... 8:13 61:15 175:21 understands 37:5 understood 75:11 100:25 162:23 167:6 unethical 89:11,17 unfair 79:13 unfortunat... 51:13 Uniphyl 236:6 unit 122:5 134:21 united 1:2 145:7 University 5:16,24 unpleasant 43:5	unresponsive 82:6 unsafe 71:18 unsolved 231:13 until 17:8 121:16 208:20 untreatable 143:9 unusual 102:3 unwarranted 88:9 use 16:11 19:15 36:16 45:11 46:21 46:23 57:2 67:25 72:20 73:19 74:24 78:22 80:15 80:19 84:25 87:17 88:3 88:8 90:14 93:19 94:3 99:6 100:24 107:17 108:17 113:3,4,5 116:18 128:25 131:19 133:5 159:4 180:24 186:24 187:3,18,21 187:23,25 191:14 209:21 215:24 221:13 226:12 228:25 230:20,23 236:9 238:2 239:8,14,17 239:18,24 240:19,20 243:20 246:2 used 19:7 34:14 36:14	37:8 42:11 44:24,25 46:13 47:7 47:14 51:12 53:16 55:21 81:11,23 83:12 99:9 100:3 101:25 120:25 122:25 123:3,22 167:13 173:5,7,11 175:20,24 176:4 178:21 181:23 227:7 242:2 242:10,16 243:12 246:6 useful 34:7 104:14 using 29:20 42:24 47:12 50:9 75:4 87:23 100:24 104:17 200:22 204:5 209:20 usual 168:24 169:4,7 172:4 181:17,18 182:3 186:3 216:22 usually 43:2 61:17 84:18 122:19 152:14 165:17 178:15 235:9 utilizing 123:17 128:2 utterly 81:13 <hr/> V <hr/>
---	---	---	---	--	---

232:7 239:5 validated 89:18 validation 70:20 71:2 value 59:10 60:16,20,24 124:6 variability 62:3 variable 47:2 52:4 variants 100:7 varied 14:24 15:7 variety 42:24 121:18 158:24 various 19:3 25:12 116:13 119:12 139:4 174:3 vary 39:22 varying 176:15 vascular 137:17 veiled 100:3 version 110:25 125:11,16 125:17 126:20 160:22 161:3 162:20 163:12 164:16,25 174:18 188:14 193:2 195:15 196:2,4,7 196:13 199:2 versions 125:19,20 160:24 163:3,11,14 163:15	174:5,7 195:12 versus 38:22 104:13 120:14 121:8 174:10 175:15,17 very 10:11 21:5 23:25 24:8 30:10 38:2 41:10 49:21 52:4 58:23 59:19 60:12 62:6 62:6,11 66:9 71:13 71:16 73:5 74:11,11,15 74:21 91:7 92:10 94:6 98:7,13,14 112:12 116:20 118:12,14 118:20,22 122:6,7 123:23,23 124:18 128:6 129:15,18 129:21 130:4 132:17 137:14 139:6,20 141:8,8,20 141:22 142:22 146:23 151:18,24 158:10 160:4,13 162:18 173:9 174:23,25 185:6 187:5 198:14,24 203:4,4,12 204:14,15 206:10 209:19	210:15 219:9 226:19 231:7 242:3 242:10,17 vice 10:5 videotape 207:3,17 violation 217:24 Virginia 5:20 virtually 217:15,18 218:2 visual 51:15 85:14 volume 37:9 100:4 volunteers 82:6,6 150:21 vomiting 171:11 vulnerability 36:15 116:18 142:6 vulnerable 142:3 246:14 <hr/> W <hr/> wahoo 190:23 Wait 240:6 waiting 57:20 walking 236:5 want 52:15 82:13 84:15 93:19 94:9 94:10 106:6 106:24 108:24 112:11 115:23 118:3 124:23 147:4 151:23 170:14 212:25	219:11,20 219:23 220:3,13 221:9,23,24 222:11,23 229:12 wanted 8:17 22:12,17 23:8 48:20 81:18 83:19 91:11,13 96:15 100:14,15 107:25 108:11 116:5,12 148:13 185:22 187:7 222:12 238:18 wants 219:13 222:9 230:6 want/suggest 81:19 warning 189:16 193:7 199:15,19 204:23 209:10 210:4,8 warnings 199:19 204:17 243:11 244:3 warns 169:10 244:13,18 Washington 2:5 3:10 5:16 208:6 wasn't 13:2 75:4 145:24 186:24 210:2 WATKINS 2:12 way 9:24 14:23 18:23 22:2 32:5 50:5,22	82:12 88:9 88:15 139:6 144:7 191:10 198:13 203:18 208:21 216:7 231:20 249:17 ways 50:4 127:24 134:9 158:20 202:12 231:2 weak 115:12 159:9 160:4 246:20 weakness 171:10 week 121:25 weeks 121:25 121:25 140:2 172:14,17 173:6,6,11 weight 37:20 132:23 well 5:4 13:13 21:17 22:23 23:2 24:8 32:19,22 39:2 43:6 45:10 46:20 47:3 48:18 53:22 56:21 58:18,19 61:13 66:12 67:16 68:6 69:6 74:11 74:12 75:8 78:13 90:5 93:21 94:6 107:21 111:8 112:18 118:4 119:3 125:16 128:7 132:17 133:21	136:7,23 139:15 141:5 143:20 144:15 146:23 151:25 154:10 173:23 178:18,19 178:23 179:25 189:21 190:7,8 199:5 206:17 207:9 208:4 209:24,25 211:4 214:20 220:4 226:19 234:22 235:15 237:24 238:5 239:16 240:3,21 well-contro... 231:7 well-docum... 131:13 well-formu... 223:4 Well-recog... 150:2 went 5:23 6:11 28:16 97:12 130:9 152:7 160:25 201:14 239:8,19 were 6:15 7:17,25 8:4 10:11 11:9 11:20 13:19 14:9,14,16 14:22 15:5 15:10 16:5 17:10,18,20 17:22 18:9
---	---	--	---	---	--

21:16 24:8	120:10,25	111:8 159:7	224:23	44:8 48:13	37:1 38:1
24:9,23	121:2,19,21	we're 37:15	withdrawal	50:2 65:14	39:1 40:1
25:8,12	122:17,20	67:5,7	50:24 54:14	66:10	41:1,24
26:12,16	124:19	116:17	57:19 59:15	143:12	42:1 43:1
27:12,19,20	125:20,20	125:6	60:18	181:20	44:1 45:1
27:23,24	129:15,23	160:13	168:19,20	198:13	46:1 47:1
28:15 34:4	131:9,10,12	164:17,18	169:11,15	199:3	48:1 49:1
36:5 45:6	131:16	199:3 220:7	169:16	works 106:24	50:1 51:1
47:16 48:20	137:3,13,23	222:24	172:6 180:3	177:7	52:1 53:1
49:14 52:5	138:14	we've 33:7	244:6	221:20	54:1 55:1
52:12,22	145:10	48:5 55:20	witness 3:9	worry 179:11	56:1 57:1
53:6,10,12	149:4 158:3	55:21	28:10 37:5	179:12	58:1 59:1
59:5 60:14	158:10	139:25,25	249:11,14	208:24	60:1 61:1
62:23 63:14	159:6,21	140:2 220:4	249:19	worse 168:4	62:1 63:1
65:11 66:10	160:23	whatnot	Wizard	168:12,15	64:1 65:1
66:15 68:18	161:18,21	224:16	218:23	worth 33:5	66:1,25
68:19 69:9	164:21	Wheeler	wonder	wouldn't	67:1,15
69:9,21	165:25	234:8,19	207:16	14:5 81:14	68:1 69:1
71:12,13,19	168:20	235:11	WOODSON	90:11 91:17	69:16 70:1
71:22,23	173:15	236:8	2:10	103:7	71:1 72:1
72:3,12	174:8,17	238:18	woozy 51:22	117:12	73:1,24
73:18,20	175:24	WHEREOF	word 45:4	129:16	74:1 75:1
74:21 76:18	176:24	249:19	69:25 70:2	140:15	75:13 76:1
76:23 77:16	178:13,14	while 16:5	71:8 246:2	191:3 227:2	77:1 78:1
77:17 78:3	179:8,10	24:8 45:8	246:7	227:4	79:1,17
80:6,6,19	180:2,6,16	57:19 78:3	words 62:5	wrestle 82:4	80:1,2 81:1
81:16 82:5	184:3,4,7	205:8 224:4	work 7:23	113:3	82:1 83:1
84:18 85:12	184:25	224:13,24	16:3 24:5	134:22	84:1,4 85:1
86:14 87:10	185:4	244:25	33:10 43:8	140:20	86:1 87:1
89:7,12,16	186:10,17	whole 9:24	43:11,22,24	191:4	87:14 88:1
89:18,19,20	189:15	41:5 51:22	48:20,24,25	wrestled	88:6 89:1
89:21,21,23	190:8	192:2	58:18,19	97:16	90:1 91:1
89:23 90:21	207:24	233:15	64:8 75:2	wrestling	91:24 92:1
90:24 91:8	208:15	widely	76:6,8,11	72:12 179:2	93:1 94:1
91:10,15	213:20	172:13	83:20 97:3	wright 1:16	95:1,5,9,11
96:8 97:25	217:21	widespread	100:5 119:9	4:1,2,7 5:1	95:19 96:1
98:4,10,12	221:19	131:19	120:12	5:10 6:1 7:1	97:1 98:1
98:14	224:25	wife 8:15	162:4	8:1 9:1 10:1	98:18 99:1
100:11,15	228:13	wife's 10:17	178:23	11:1 12:1	99:8 100:1
103:13,15	229:20,21	willing	201:13,13	13:1 14:1	101:1,3
103:18	230:2	229:11	205:2,3	15:1 16:1	102:1 103:1
104:10	232:24	winding	221:20	17:1 18:1	104:1,9
107:18,24	243:3,18,19	57:10	worked 7:18	19:1 20:1,6	105:1 106:1
108:6,8	weren't 32:2	wise 70:9	12:8 19:18	20:8 21:1,5	107:1 108:1
109:6,7	44:23 63:17	227:14	42:2 43:18	21:16 22:1	108:4 109:1
112:9 113:4	90:18 98:17	wish 30:13	48:11,23,24	23:1 24:1	110:1 111:1
113:5 115:7	100:10	112:7	65:16,17,19	25:1 26:1	111:14
115:8	101:10	151:15	65:20 66:5	27:1 28:1	112:1 113:1
116:23	178:10	248:5	66:6,11	29:1 30:1	114:1 115:1
117:5	187:13	wished 124:8	78:3 97:10	31:1 32:1	116:1 117:1
118:20	West 2:4	withdraw	178:12,19	33:1 34:1	118:1 119:1
119:16,22	we'll 63:11	156:19	working 44:6	35:1 36:1	120:1 121:1

122:1 123:1	205:1 206:1	139:7	Zellman	200:20	250:17
124:1 125:1	207:1 208:1	199:23	11:18	207:16	251:9
125:8 126:1	209:1 210:1	200:18		101 250:18	18 169:23
127:1 128:1	210:24	221:18	\$	10112 3:5	251:11,23
129:1 130:1	211:1,3	226:5,11	\$158,000	11 125:8	18th 198:25
130:14	212:1 213:1	235:14	12:18	150:12,14	18.9 149:5
131:1 132:1	214:1,3	wrong 68:13	\$185,000 11:4	173:10	180 105:7
133:1 134:1	215:1,20	70:10 71:8	\$200,000	250:21	184 251:13
135:1 136:1	216:1 217:1	92:23 107:2	10:24	251:18	188 251:15
137:1 138:1	218:1,3	222:11		11,882 131:11	19 184:13
139:1 140:1	219:1 220:1	wrongly	0	137:23	251:4,12
141:1 142:1	221:1 222:1	220:12	006 163:13	11.8 180:7	1910s 134:20
143:1 144:1	223:1 224:1	wrote 145:8,9	011 163:12	11/2/92 76:16	192 251:18
145:1 146:1	225:1 226:1	221:3 226:8	012 195:15	1100 2:4	1940s 46:16
147:1 148:1	227:1,22	226:8	031 69:6	111 250:20	195 251:20
148:15	228:1 229:1		032 69:11	12 130:14	1957 154:18
149:1 150:1	230:1 231:1	X	033 68:3	250:23	196 251:22
151:1 152:1	231:23	x 1:5,12	70:16	251:13	1966 154:19
153:1,20	232:1 233:1	151:17	079 76:13	12.8 180:8	198 251:23
154:1 155:1	233:24	203:5 250:2	080 76:24	12:15 94:15	1980 128:12
156:1 157:1	234:1 235:1	251:2 252:2		12:50 95:3	129:19
158:1 159:1	235:20		1	124 154:8	130:19
160:1,17	236:1 237:1	Y	1 20:6,9	125 250:22	195:5
161:1 162:1	238:1,9,24	yawning	61:18 62:11	1275 3:10	1989 8:8
162:24	239:1 240:1	171:5,18	62:11,12,22	13 148:15	1990 96:11
163:1 164:1	241:1,22	year 7:24	64:25 67:7	173:11	1992 66:21
165:1,2	242:1 243:1	10:24 11:4	69:4 146:11	250:13,20	68:4 69:9
166:1 167:1	244:1 245:1	12:18 15:7	147:7	250:24,25	79:14 80:9
168:1 169:1	246:1 247:1	15:7 52:9	183:16	130 250:24	128:13
169:23	247:6 248:1	55:14 111:6	200:20	14 153:20	148:20
170:1 171:1	249:10	148:12	205:20	228:7 251:3	178:7
172:1 173:1	250:3,5,7,9	years 6:16	206:2,11,16	140 12:18	184:20
174:1 175:1	250:11,13	7:11 8:5	207:5,15,15	15 160:16,17	187:20
176:1 177:1	250:14,16	12:14 26:7	250:3	164:25	1992/1993
178:1 179:1	250:18,19	26:22 44:11	1.6 101:14	203:8 251:5	229:20
180:1 181:1	250:21,23	52:8 97:16	1.8 64:25	150 202:25	1993 87:17
182:1 183:1	250:25	97:24 105:2	10 111:14	153 251:4	99:2 101:6
184:1,13,23	251:3,5,7,9	116:16	169:22	157 179:21	1994 126:2,7
185:1 186:1	251:11,12	133:17	172:15	158 12:19	126:11
187:1 188:1	251:14,16	137:19,20	198:22	16 162:24	156:17
188:10	251:19,21	137:20	199:12,16	163:13	1995 12:21
189:1 190:1	251:23,24	138:23	209:15	182:24	13:2 110:21
191:1 192:1	252:3,5,7	210:14	250:15,19	183:2 250:8	118:4
192:12	252:10,12	222:13	10th 200:20	251:6,7	119:17
193:1 194:1	252:14,16	york 1:19,19	10,000 138:21	16th 126:11	126:5
195:1,8	252:18	1:21 2:4 3:5	207:15	161:4	156:18
196:1 197:1	write 52:10	3:5 248:2,4	10/22/92	160 251:6	161:4 163:6
197:2 198:1	64:9 167:17	249:3,5,9	95:12	162 251:8	1996 110:25
198:19	241:13	Yup 190:3	250:15	164 251:10	111:22,24
199:1 200:1	writers 59:21	y'all 65:18	100 12:23	169 251:11	218:14
201:1 202:1	written 88:9		27:5	17 165:2	1998 7:13
203:1 204:1	124:19	Z	100,000	166:13,15	10:25 11:3

FOSHEE & TURNER COURT REPORTERS

206:6 1999 232:19 <hr style="width: 20%; margin: 5px auto;"/> 2 <hr style="width: 20%; margin: 5px auto;"/> 2 20:13 27:2 65:2 66:25 67:9 168:18 219:6 250:5 250:18 252:4,6 2,000 26:21 20 188:10 202:24 210:13 250:4 251:14 252:15 200 2:9 2000 111:10 111:11,23 169:20 238:13 239:4 20004-2415 3:10 20005-3964 2:5 2001 121:16 189:3,9 192:6,19 193:4,13 198:25 228:7 2002 121:16 2003 1:13 247:7 249:20 21 192:12 251:16 252:9 214 252:4 218 252:6 22 160:12,15 172:14 173:6,11 195:8 238:13 251:11,19 252:11 22nd 239:4 227 252:9 23 98:25	193:4 197:2 251:8,21 252:13,19 23rd 110:25 193:13 231 252:11 233 252:13 235 252:15 238 252:17,19 24 171:19 198:19 250:6 251:23 24-hour 179:4 25 1:13 209:15 210:24 250:10 251:10,22 251:24 26 214:3 252:3 26-M-B 1:8 27 208:6 218:3 244:22 252:5 28 207:20 227:22 252:7 28th 80:9 29 173:15 231:23 252:10 29th 79:24 189:22 <hr style="width: 20%; margin: 5px auto;"/> 3 <hr style="width: 20%; margin: 5px auto;"/> 3 58:8 69:9 79:17 172:10 223:3 250:7 250:12 3.2 149:5 30 1:18 3:5 202:24 233:24 252:12 30th 21:12,15 101:6 300 27:2	308 84:8 31 235:20 252:14 31st 163:5 193:13 316 101:13,13 319 103:22 32 172:17 173:6 179:21 238:9 252:16 323 170:5 325 111:19,19 33 238:24 252:18 36101-4160 2:9 3802 228:3,19 39,946 131:9 <hr style="width: 20%; margin: 5px auto;"/> 4 <hr style="width: 20%; margin: 5px auto;"/> 4 67:8 68:6 70:17,18 80:2 147:16 173:18 218:13 250:9 4:02 1:8 40 85:24 86:4 202:24 400 217:12 434 173:14 440 170:13,15 170:16 445 173:14 179:24 454 171:15 46 179:25 487 127:4 488 150:16 491 179:23,23 <hr style="width: 20%; margin: 5px auto;"/> 5 <hr style="width: 20%; margin: 5px auto;"/> 5 61:18 62:11 62:22 84:4 171:25 203:8 250:4 250:11 5th 110:21 50 27:5 182:5 182:7	50s 46:17 500 2:4 505 178:15 58 180:6 <hr style="width: 20%; margin: 5px auto;"/> 6 <hr style="width: 20%; margin: 5px auto;"/> 6 79:14 87:14 176:12,14 177:7 183:13 215:25 225:12 250:13 6H 186:8 6/22/2000 238:14 6:04 247:4 60s 46:17 63 180:8 66 250:6 <hr style="width: 20%; margin: 5px auto;"/> 7 <hr style="width: 20%; margin: 5px auto;"/> 7 84:7,22 95:11 171:25 200:19 250:14,22 251:20 7th 196:2 7041 160:21 162:11 7076 163:16 72 171:21 202:25 720 172:15 722 193:24 7501020320 111:16 250:20 7501020327 111:16 250:20 77002-1665 2:14 79 250:8,10 7911443057 231:25 252:11 7911450215 234:2 252:13 7911450927	235:22 252:15 7911452549 239:2 252:19 7911452553 238:11 252:17 7912511060 211:2 7912533279 214:5 252:4 <hr style="width: 20%; margin: 5px auto;"/> 8 <hr style="width: 20%; margin: 5px auto;"/> 8 98:18 179:18 200:20 250:16 252:17 8th 68:4 80 85:23 86:13 87:10 80-milligram 87:5 800 2:13 217:12 8001000296 84:6 250:12 8001000313 84:6 250:12 8001039123 153:22 251:4 8001039135 153:22 251:4 8002017468 125:10 250:22 8002017497 125:10 250:22 8002065027 67:3 250:6 8002065089 67:3 250:6 8003007024 160:19 251:6 8003007048 160:19 251:6	8003007060 163:2 251:8 8003007076 163:2 251:8 8113900019 80:4 250:10 8113900024 80:4 250:10 8113900032 79:19 250:8 8113900043 79:19 250:8 8113900101 184:15 251:13 8113900102 184:15 251:13 8113900235 98:20 250:17 8113900315 101:4 250:18 8113900323 101:4 250:18 84 250:12 87 250:13 88-105 105:4 88-1105 104:25 8810119940 188:12 251:15 <hr style="width: 20%; margin: 5px auto;"/> 9 <hr style="width: 20%; margin: 5px auto;"/> 9 101:3 179:16 183:4 199:23 250:18 251:15 9:38 1:14 90 96:11 90s 108:6 9100939555 218:5 252:6 9100939557 218:5 252:6 9101803708 192:14
---	--	---	---	--	---

FOSHEE & TURNER COURT REPORTERS

251:17	97 8:9 11:21				
9101803709	12:6 17:8				
192:14	76:12 78:2				
251:17	96:11				
9101803722	970302 241:2				
192:15	98 11:5,7				
251:18	76:12				
9101803798	121:15				
227:24	188:24				
252:8	250:17				
9101803799	99 121:15				
227:24					
252:8					
9101803800					
227:25					
252:9					
9101803808					
227:25					
252:9					
9101804000					
195:10					
251:20					
9101804012					
195:10					
251:20					
9101804075					
197:4					
251:22					
9101804076					
197:4					
251:22					
92 69:10 74:5					
77:4,8,13					
82:15 84:25					
95:14 178:9					
92-1101 99:5					
99:16					
93 74:8 88:14					
94 74:8,15					
82:15 96:12					
155:7					
156:22					
157:4,20					
95 14:18,20					
14:20,21					
74:15 96:11					
111:4,5					
156:23					
157:5,21					
178:8,9					
250:15					
96 124:14					