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| UNITED STATES PATENT AND TRADEMARK OFFICE | 1 ATTENDANCE, Continued |
| BEFORE THE PATENT TRIAL AND APPEAL BOARD | ³ ON BEHALF OF THE PATENT OWNER ADAPT PHARMA OPERATIO |
| NALOX-1 PHARMACEUTICALS, LLC | |
| Petitioner | 5 IESSAMYN S BERNIKER ESOLIIRE |
| v. | |
| ADAPT PHARMA OPERATIONS LIMITED, and | 6 YOULIN YUAN ESQUIRE |
| OPIANT PHARMACEUTICALS, INC., | TOOLIN TOTAL, EDGOINE |
| Patent owners | Williams & Connolly LLP |
| | 7 725 Twelfth Street, Northwest |
| Case No. IPR2019-00685 | Washington, D.C. 20005 |
| Case No. IPR2019-00688 | ⁸ Telephone: (202) 434-5000 |
| Case No. IPR2019-00694 | ⁹ areyes@wc.com |
| | ¹⁰ KHoagland-Hanson@wc.com |
| REMOTE VIDEO CONFERENCE | 11 JBerniker@wc.com |
| CONTINUED VIDEOTAPED DEPOSITION OF | ¹² DKrinsky@wc.com |
| GUNTHER HOCHHAUS, Ph.D. Volume 2 | 13 YYuan@wc.com |
| Gainesville, Florida | 14 |
| April 14, 2020, 9:46 a.m. | ¹⁵ - AND - |
| | 16 |
| Reported by: Michele E. Eddy, RPR, CRR, CLR | 17 JESSICA TYRUS MACKAY, ESQUIRE |
| | ¹⁸ Green, Griffith & Borg-Breen, LLP |
| DIGITAL EVIDENCE GROUP | ¹⁹ 676 N. Michigan Avenue, #3900 |
| 1730 M Street, NW, Suite 812 | ²⁰ Chicago, Illinois 60611 |
| Washington, D.C. 20036 | ²¹ Telephone: (312) 883-8000 |
| (202) 232-0646 | ²² jmackey@greengriffith.com |
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| 1 | _ | 1 |
| 2 | EXHIBIT INDEX CONTINUED | ² GÜNTHER HOCHHAUS, |
| 3 | DEPOSITION EXHIBIT PAGE | ³ having been duly sworn, testified as follows: |
| 4 | | 4 EXAMINATION BY COUNSEL FOR PATENT OWNER ADAPT PHARMA |
| 5 | 6 | 5 BY MS. REYES: |
| 6 | Analytical Chemistry 9E" | ⁶ Q Doctor, this is Ana Reyes. I'm an |
| 7 | Exhibit 5 Programma charling CD formula (19 | attorney at Williams & Connolly. Can you hear me? |
| 8 | Exhibit 5 Propagated absolute SD formula 618 | ⁸ A Yes. |
| 9 | Exhibit 6 When Same deheat with Caren and SD 667 | A 103. |
| 10 | Exhibit 6 Wyse Spreadsheet with Cmax and SD 667 | Q Okay. Good monning, now are you. |
| 11 | figures | A Thi doing file. |
| 12 | Exhibit 7 "Standard deviations and standard 668 | 2 · |
| 13 | | |
| 14 | errors" by Douglas G. Altman and J. Martin Bland | and damainstation of option unagoinsto to dout |
| 15 | J. Martin Bland | |
| 16 | | |
| 17 | | |
| 18 | | ¹⁷ knowledge and experience relating to the treatment |
| 19 | | ¹⁸ of opioid overdoses, correct? |
| 20 | | ¹⁹ A I'm not treating patients, no. I'm a |
| 21 | | ²⁰ clinical pharmacologist. |
| 21 | | ²¹ Q Right. And that's because you're not a |
| 22 | | ²² medical practitioner at all, correct? |
| | Page 343 | Page 345 |
| 1 | PROCEEDINGS | ¹ A That is correct. |
| 2 | April 14, 2020 | ² Q You are not board certified in emergency |
| 3 | | ³ medicine, correct? |
| 4 | THE VIDEOGRAPHER: This is Video No. 1 | ⁴ A That's absolutely correct. |
| 5 | in the video-recorded deposition of Dr. Günther | ⁵ Q You are not board certified in any |
| б | Hochhaus, taken in the matters of Nalox-1 | ⁶ medical field, correct? |
| 7 | Pharmaceuticals, LLC versus Opiant | ⁷ A That is correct. |
| 8 | Pharmaceuticals, Inc. It is pending before the | ⁸ Q You have never served as the medical |
| 9 | United States Patent and Trademark Office before | ⁹ director of any Department of Health, correct? |
| 10 | the Patent Trial and Appeal Board, with the | ¹⁰ A Correct. |
| 11 | following IPR numbers: 2019-00685, 00688, 00694. | ¹¹ Q You have never treated a patient |
| 12 | This deposition is being recorded by | ¹² suffering from an opioid overdose, correct? |
| 13 | remote video by Zoom, and the physical recording | ¹³ A Correct. |
| 14 | is being taken place in Culpeper, Virginia, on | ¹⁴ Q You have never administered any route of |
| 15 | April 14th, 2020. The time on the video screen is | ¹⁵ naloxone to any patient, correct? |
| 16 | 9:46 a.m. | ¹⁶ A Correct. |
| 17 | My name is Daniel Holmstock, and I am | ¹⁷ Q You have never supervised others |
| 18 | the legal video specialist. Our court reporter | ¹⁸ administering naloxone, correct? |
| | | |
| 19 | today is Michele Eddy. Counsel for appearances | ¹⁹ A I did some animal experiments, actually. |
| | today is Michele Eddy. Counsel for appearances will be noted on the stenographic record. At this | A I did some animal experiments, actually. I delivered naloxone by myself, but that was more |
| 19 20 21 | today is Michele Eddy. Counsel for appearances | I delivered naloxone by myself, but that was more in a basic science environment |
| 19 20 | today is Michele Eddy. Counsel for appearances will be noted on the stenographic record. At this | ²⁰ I delivered naloxone by myself, but that was more |

2 (Pages 342 to 345)

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| | Page 346 | Page 348 |
|--|---|---|
| 1 | A but just to be correct, not with | ¹ A I have never observed. Again, I've read |
| 2 | patients. | ² literature from practitioners who have practical |
| 3 | Q That was in the 1980s? | ³ experience. |
| 4 | A Yes. | $\frac{4}{Q}$ In connection with this litigation. I |
| 5 | Q Okay. Now, just let me rephrase my | ⁵ understand that we can all read, but I'm asking |
| 6 | question, then. | ⁶ about your treatment or lack of treatment of any |
| 7 | You have never administered any route of | ⁷ patient. You don't have any firsthand experience |
| 8 | naloxone to any human being, correct? | ⁸ observing administering naloxone to an individual |
| 9 | A Correct. | ⁹ who is overdosing and then seeing what the |
| 10 | Q You have never supervised others | ¹⁰ withdrawal or side effects are, correct? |
| 11 | administering naloxone to human beings, correct? | ¹¹ MR. BERMAN: Objection. |
| 12 | A Correct. | ¹² A I have not. |
| 13 | Q You have never had to make any decision | ¹³ Q You have never handed out MAD kits to |
| 14 | as to what initial dose of naloxone to give a | ¹⁴ lay individuals and taught them how to use them, |
| 15 | patient, correct? | ¹⁵ correct? |
| 16 | A Correct. | ¹⁶ A What is a MAD kit? |
| 17 | Q You have never been asked to make a | ¹⁷ Q You don't know what a MAD kit is? |
| 18 | medical assessment as to the dose for | ¹⁸ MR. BERMAN: Object to form. |
| 19 | administering naloxone sufficient to restore | ¹⁹ Q I'm sorry, sitting here today, do you |
| 20 | breathing in an overdosing patient, correct? | ²⁰ know what a MAD kit is? |
| 21 | A Asked by whom? | A Well, as I said, the audio is not very, |
| 22 | Q By anyone. | ²² very good so I understood kid as in child. |
| | - 0/7 | |
| | Page 347 | Page 349 |
| 1 | Page 347 A I have to think about it. I might have | Page 349 ¹ Q No, I'm sorry, MAD kit, K-I-T. |
| 1 2 | | |
| | A I have to think about it. I might have | ¹ Q No, I'm sorry, MAD kit, K-I-T. |
| 2 | A I have to think about it. I might have had conversations with colleagues about that, and | Q No, I'm sorry, MAD kit, K-I-T. A Okay, no. |
| 2 3 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from | Q No, I'm sorry, MAD kit, K-I-T. A Okay, no. Q Okay. You have never published any |
| 2 3 4 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading | Q No, I'm sorry, MAD kit, K-I-T. A Okay, no. Q Okay. You have never published any paper on the administration of naloxone, correct? |
| 2 3 4 5 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions | Q No, I'm sorry, MAD kit, K-I-T. A Okay, no. Q Okay. You have never published any paper on the administration of naloxone, correct? A Correct. |
| 2 3 4 5 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. | Q No, I'm sorry, MAD kit, K-I-T. A Okay, no. Q Okay. You have never published any paper on the administration of naloxone, correct? A Correct. Q You have never been asked to and you |
| 2 3 4 5 6 7 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this | Q No, I'm sorry, MAD kit, K-I-T. A Okay, no. Q Okay. You have never published any paper on the administration of naloxone, correct? A Correct. Q You have never been asked to and you have never served on an expert panel to conduct a review of the literature on naloxone administration and published the results and |
| 2 3 4 5 6 7 8 9 10 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this litigation, of course, that one talked about it, | 1QNo, I'm sorry, MAD kit, K-I-T.2AOkay, no.3QOkay. You have never published any4paper on the administration of naloxone, correct?5ACorrect.6QYou have never been asked to and you7have never served on an expert panel to conduct a8review of the literature on naloxone9administration and published the results and10recommendation for that use, correct? |
| 2 3 4 5 6 7 8 9 10 11 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this litigation, of course, that one talked about it, but dose finding, more than I | 1QNo, I'm sorry, MAD kit, K-I-T.2AOkay, no.3QOkay. You have never published any4paper on the administration of naloxone, correct?5ACorrect.6QYou have never been asked to and you7have never served on an expert panel to conduct a8review of the literature on naloxone9administration and published the results and10recommendation for that use, correct?11AA |
| 2 3 4 5 6 7 8 9 10 11 12 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this litigation, of course, that one talked about it, but dose finding, more than I Q Let me rephrase the question, then. | 1QNo, I'm sorry, MAD kit, K-I-T.2AOkay, no.3QOkay. You have never published any4paper on the administration of naloxone, correct?5ACorrect.6QYou have never been asked to and you7have never served on an expert panel to conduct a8review of the literature on naloxone9administration and published the results and10recommendation for that use, correct?11A12Q12Q13A14Norrect. |
| 2 3 4 5 6 7 8 9 10 11 12 13 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this litigation, of course, that one talked about it, but dose finding, more than I Q Let me rephrase the question, then. You have never had to make a medical | 1QNo, I'm sorry, MAD kit, K-I-T.2AOkay, no.3QOkay. You have never published any4paper on the administration of naloxone, correct?5ACorrect.6QYou have never been asked to and you7have never served on an expert panel to conduct a8review of the literature on naloxone9administration and published the results and10recommendation for that use, correct?11A12Q13what a "pharmacologist POSA" would find obvious, |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this litigation, of course, that one talked about it, but dose finding, more than I Q Let me rephrase the question, then. You have never had to make a medical assessment as to the dose for administering | 1QNo, I'm sorry, MAD kit, K-I-T.2AOkay, no.3QOkay. You have never published any4paper on the administration of naloxone, correct?5ACorrect.6QYou have never been asked to and you7have never served on an expert panel to conduct a8review of the literature on naloxone9administration and published the results and10recommendation for that use, correct?11A12Q13what a "pharmacologist POSA" would find obvious,14correct? |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this litigation, of course, that one talked about it, but dose finding, more than I Q Let me rephrase the question, then. You have never had to make a medical assessment as to the dose for administering naloxone sufficient to restore breathing in an | 1QNo, I'm sorry, MAD kit, K-I-T.2AOkay, no.3QOkay. You have never published any4paper on the administration of naloxone, correct?5ACorrect.6QYou have never been asked to and you7have never served on an expert panel to conduct a8review of the literature on naloxone9administration and published the results and10recommendation for that use, correct?11A12Q13what a "pharmacologist POSA" would find obvious,14correct?15A1I was asked to serve as a pharmacologist |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | A I have to think about it. I might have had conversations with colleagues about that, and I would use then my knowledge that I obtained from the literature, reading medical articles, reading opinions of medical doctors and form opinions towards the correct dose. Q That was that was in an I'm sorry, that was in connection with this litigation? A Certainly, and also with respect to this litigation, of course, that one talked about it, but dose finding, more than I Q Let me rephrase the question, then. You have never had to make a medical assessment as to the dose for administering naloxone sufficient to restore breathing in an overdosing patient, correct? | 1QNo, I'm sorry, MAD kit, K-I-T.2AOkay, no.3QOkay. You have never published any4paper on the administration of naloxone, correct?5ACorrect.6QYou have never been asked to and you7have never served on an expert panel to conduct a8review of the literature on naloxone9administration and published the results and10recommendation for that use, correct?11A12Q13what a "pharmacologist POSA" would find obvious,14correct?15A16POSA, correct. |
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3 (Pages 346 to 349)

4/14/2020

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|---|---|--|
| | Page 350 | Page 352 |
| 1 | A Yes. | ¹ clinicians, to achieve a target pharmaceutical |
| 2 | Q Of the available experts in this case, | ² profile, correct? |
| 3 | if the Board wanted the viewpoints of a clinician | ³ A If you as I said, I really would like |
| 4 | POSA as opposed to a pharmacologist POSA, they | ⁴ to see what I have written in the declaration. |
| 5 | would have to go to Dr. Williams, right, not you? | ⁵ Q Well, I don't I'm not I have your |
| 6 | MR. BERMAN: Objection to form. | ⁶ declaration. I'm not here for you to read your |
| 7 | A I'm sure that the Board could go to | ⁷ declaration to me. I'm here for you to answer my |
| 8 | somebody else, too. | ⁸ questions. |
| 9 | Q Well, they would not be able to go to | ⁹ A Yes, but I would |
| 10 | you, right, because you are not a clinician POSA? | ¹⁰ Q I have I have a question that's not |
| 11 | MR. BERMAN: Objection. | ¹¹ dependent on his declaration. |
| 12 | A I am not a clinician POSA, no, but there | ¹² MR. BERMAN: Hang on, please. |
| 13 | are lots of clinician POSAs besides Dr. Williams. | ¹³ Q It's dependent on his experience. So |
| 14 | Q Of the experts in this litigation, | ¹⁴ let me ask the question again. |
| 15 | Dr. Williams is the only clinician POSA, correct? | ¹⁵ MR. BERMAN: Excuse me, hang on. |
| 16 | A As far as I know, yes. | ¹⁶ Dr. Hochhaus, can you please slow down your |
| 17 | Q And, in your view, the clinical | ¹⁷ answers and allow me to object. |
| 18 | pharmacologist generally serves as a link between | ¹⁸ THE WITNESS: Yes. |
| 19 | formulators and clinicians, correct? | ¹⁹ MR. BERMAN: Okay. Thank you. |
| 20 | A That's written in my first declaration. | ²⁰ BY MS. REYES: |
| 21 | Q Okay. And, in your view, for this case | ²¹ Q All right. As the link between the |
| 22 | the POSA team would include a clinician, correct? | ²² formulator and the clinician, the clinical |
| | | |
| | Page 351 | Page 353 |
| 1 | A I don't think that I said in my | ¹ pharmacologist would routinely collaborate with |
| | - | F |
| 2 | declaration the POSA team. And we might want to | ² others, such as formulators and clinicians, to |
| 2 3 | declaration the POSA team. And we might want to take a look exactly at the section that deals with | |
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| | Page 354 | Page 35 | 6 |
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| 1 | can all read, sir. I'm asking if you talked to | ¹ And as between you and Dr. Williams, | |
| 2 | any clinician in forming your opinions. | ² Dr. Williams has more experience in observing and | |
| 3 | MR. BERMAN: Objection to form. | ³ dealing with withdrawal and side effects in | |
| 4 | A As I said, I did not talk, but I I | ⁴ patients given naloxone, right? | |
| 5 | have to object a little bit. Reading literature | MR. BERMAN: Objection to form. | |
| 6 | from medical people is truly time to learn from | ⁶ A He has more firsthand experience seeing | |
| 7 | them and trying to see their viewpoint, which I | ⁷ patients, yes. | |
| 8 | then can use with my clinical pharmacological | ⁸ Q And that's because he has decades of | |
| 9 | background to come up with my own opinion. My | 9 experience and you have none, right? | |
| 10 | opinions | ¹⁰ MR. BERMAN: Objection to form. | |
| 11 | Q Sorry, sir. I'm not going to let you | ¹¹ A I don't know that he has decades of | |
| 12 | just talk on and on. I appreciate that viewpoint, | ¹² experience. I assume. He has certainly been | |
| 13 | but I am asking you a very specific question and I | ¹³ treating he is certainly treating patients. | |
| 14 | would like an answer to my specific question. | ¹⁴ Q Okay. | |
| 15 | That is, as part of this work that you | ¹⁵ Now, in your report, you reference a | |
| 16 | did on this case, you did not consult with or talk | ¹⁶ number of pharmacokinetic studies and you do som | e |
| 17 | to any live clinician, correct? | ¹⁷ modeling based on those studies, correct? | |
| 18 | MR. BERMAN: Objection. | ¹⁸ A What report? | |
| 19 | A I did not. | ¹⁹ Q Good point, thank you. | |
| 20 | Q Correct? | ²⁰ In your first supplemental report. | |
| 21 | A I did not talk to any clinician, | ²¹ A Yes. | |
| 22 | correct. | ²² Q And those pK studies were conducted on | |
| | | | |
| | | | |
| | Page 355 | Page 35 | 7 |
| 1 | Page 355 Q Thank you. | Page 35 ¹ opioid-naive individuals, correct? | 7 |
| 1 2 | Q Thank you. Now, as between you and Dr. Williams, | opioid-naive individuals, correct? A Yes. | 7 |
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