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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.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 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? A Yes. As I said, I have never treated 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?15A16POSA, correct.17Q17Q18
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 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? A Yes. As I said, I have never treated an overdose patient. 	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.17Q18that you bring to the litigation.
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3 (Pages 346 to 349)

4/14/2020

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		1
	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	
3 4	declaration the POSA team. And we might want to take a look exactly at the section that deals with that. Maybe you can help me find that section.	 ² others, such as formulators and clinicians, to ³ achieve a target pharmaceutical profile, correct? ⁴ A Yes.
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4 (Pages 350 to 353)

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	Page 354	Page 35	6
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
	Q Thank you. Now, as between you and Dr. Williams, Dr. Williams has more experience in assessing the	 opioid-naive individuals, correct? A Yes. Q And naloxone does not generate 	7
2	Q Thank you.Now, as between you and Dr. Williams,Dr. Williams has more experience in assessing the lowest effective dose of naloxone to treat a	 opioid-naive individuals, correct? A Yes. Q And naloxone does not generate withdrawal effects on opioid-naive individuals, 	7
2 3	Q Thank you. Now, as between you and Dr. Williams, Dr. Williams has more experience in assessing the	 opioid-naive individuals, correct? A Yes. Q And naloxone does not generate 	7
2 3 4	Q Thank you. Now, as between you and Dr. Williams, Dr. Williams has more experience in assessing the lowest effective dose of naloxone to treat a patient suffering from an opioid overdose, correct?	 opioid-naive individuals, correct? A Yes. Q And naloxone does not generate withdrawal effects on opioid-naive individuals, correct? A Correct. 	7
2 3 4 5	Q Thank you. Now, as between you and Dr. Williams, Dr. Williams has more experience in assessing the lowest effective dose of naloxone to treat a patient suffering from an opioid overdose, correct? MR. BERMAN: Objection to form.	 opioid-naive individuals, correct? A Yes. Q And naloxone does not generate withdrawal effects on opioid-naive individuals, correct? A Correct. Q And the pK studies do not reflect what 	
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