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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 OPERATION. 4 ANA C. REYES, ESQUIRE
NALOX-1 PHARMACEUTICALS, LLC	KEVIN HOAGLAND-HANSON, ESQUIRE
Petitioner	5 JESSAMYN S. BERNIKER, ESQUIRE
v.	DAVID M. KRINSKY, ESQUIRE
ADAPT PHARMA OPERATIONS LIMITED, and	6 YOULIN YUAN, ESQUIRE
OPIANT PHARMACEUTICALS, INC.,	Williams & Connolly LLP
Patent owners	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	arcycse we.com
	10 KHoagland-Hanson@wc.com 11 JBerniker@wc.com
REMOTE VIDEO CONFERENCE	12 DKrinsky@wc.com
CONTINUED VIDEOTAPED DEPOSITION OF	13 YYuan@wc.com
GUNTHER HOCHHAUS, Ph.D. Volume 2	14
Gainesville, Florida April 14, 2020, 9:46 a.m.	15 - AND -
1pm 11, 2020, 7.10 a.m.	16
Reported by: Michele E. Eddy, RPR, CRR, CLR	17 JESSICA TYRUS MACKAY, ESQUIRE
	18 Green, Griffith & Borg-Breen, LLP
DIGITAL EVIDENCE GROUP	<sup>19</sup> 676 N. Michigan Avenue, #3900
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<sup>1</sup> APPEARANCES	<sup>1</sup> EXAMINATION INDEX
2	<sup>2</sup> PAGE
ON BEHALF OF THE PETITIONER:	<sup>3</sup> EXAMINATION BY MS. REYES 344
A DIGILLAD I BERLINI EGG	
4 RICHARD J. BERMAN, ESQUIRE	4
Mem M. Dekim in, Esquike	5 EXHIBITS
5 YELEE Y. KIM, ESQUIRE	
5 YELEE Y. KIM, ESQUIRE 6 JOSHUA H. HARRIS, ESQUIRE	5 EXHIBITS
5 YELEE Y. KIM, ESQUIRE 6 JOSHUA H. HARRIS, ESQUIRE 7 Arent Fox LLP	5 EXHIBITS 6 (Attached to the Transcript) 7 DEPOSITION EXHIBIT PAGE
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1	EXHIBIT INDEX CONTINUED	1	
2	EMMEN INSENT CONTINUES	<sup>2</sup> GÜNTHER HOCHHAUS,	
3	DEPOSITION EXHIBIT PAGE	having been duly sworn, testified as follows:	
4	Exhibit 4 Skoog West "Fundamentals of 606	4 EXAMINATION BY COUNSEL FOR PATENT OWNER ADAPT	ΓPHARMA
5	Analytical Chemistry 9E"	5 BY MS. REYES:	
6		6 Q Doctor, this is Ana Reyes. I'm an	
7	Exhibit 5 Propagated absolute SD formula 618	7 attorney at Williams & Connolly. Can you hear me?	
8		8 A Yes.	
9	Exhibit 6 Wyse Spreadsheet with Cmax and SD 667	9 Q Okay. Good morning, how are you?	
10	figures	A I'm doing fine.	
11		11 Q All right.	
12	Exhibit 7 "Standard deviations and standard 668	You do not have clinical expertise in	
13	errors" by Douglas G. Altman and	the administration of opioid antagonists to treat	
14	J. Martin Bland	opioid overdoses, correct?	
15		A No, I don't practice medicine.	
16		Q You are not a medical practitioner with	
17		knowledge and experience relating to the treatment	
18		of opioid overdoses, correct?	
19		A I'm not treating patients, no. I'm a	
20		20 clinical pharmacologist.	
21		Q Right. And that's because you're not a	
22		medical practitioner at all, correct?	
	Page 343	Page	e 345
1	PROCEEDINGS	<sup>1</sup> A That is correct.	
2	April 14, 2020	Q You are not board certified in emer	gency
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	
6	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 medic	
9	United States Patent and Trademark Office before	director of any Department of Health, corre	ect'?
10	the Patent Trial and Appeal Board, with the	10 A Correct.	
11	following IPR numbers: 2019-00685, 00688, 00694.	Q You have never treated a patient	n
12	This deposition is being recorded by	suffering from an opioid overdose, correct	
13	remote video by Zoom, and the physical recording	A Correct.	
14	is being taken place in Culpeper, Virginia, on	Q You have never administered any r	oute of
15	April 14th, 2020. The time on the video screen is	naloxone to any patient, correct?	
16	9:46 a.m.	16 A Correct. 17 O You have never supervised others.	
17	My name is Daniel Holmstock, and I am	Q Tou have hever supervised others	
17	the legal vides appointed. One and the second was a second	administering naloxone, correct?	
18	the legal video specialist. Our court reporter	-	11
18 19	today is Michele Eddy. Counsel for appearances	A I did some animal experiments, act	•
18 19 20	today is Michele Eddy. Counsel for appearances will be noted on the stenographic record. At this	A I did some animal experiments, actu I delivered naloxone by myself, but that wa	•
18 19	today is Michele Eddy. Counsel for appearances	A I did some animal experiments, act	•



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1	A but just to be correct, not with	<sup>1</sup> A I have never observed. Again, I've read
2	patients.	<sup>2</sup> literature from practitioners who have practical
3	Q That was in the 1980s?	<sup>3</sup> experience.
4	A Yes.	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.	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.	<sup>9</sup> who is overdosing and then seeing what the
10	Q You have never supervised others	withdrawal or side effects are, correct?
11	administering naloxone to human beings, correct?	<sup>11</sup> MR. BERMAN: Objection.
12	A Correct.	12 A I have not.
13	Q You have never had to make any decision	Q You have never handed out MAD kits to
14	as to what initial dose of naloxone to give a	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	Q You don't know what a MAD kit is?
18	medical assessment as to the dose for	<sup>18</sup> MR. BERMAN: Object to form.
19	administering naloxone sufficient to restore	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.	very good so I understood kid as in child.
	Page 347	- 240
		Page 349
1	A I have to think about it. I might have	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	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	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.	1 Q No, I'm sorry, MAD kit, K-I-T. 2 A Okay, no. 3 Q Okay. You have never published any 4 paper on the administration of naloxone, correct? 5 A Correct. 6 Q You have never been asked to and you
2 3 4 5 6	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,	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
2 3 4 5 6 7 8	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?	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
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2 3 4 5 6 7 8 9	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,	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 recommendation for that use, correct?
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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	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 recommendation for that use, correct? A Correct. Q Throughout your report, you reference what a "pharmacologist POSA" would find obvious, correct?
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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?	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 recommendation for that use, correct? A Correct. Q Throughout your report, you reference what a "pharmacologist POSA" would find obvious, correct? A I was asked to serve as a pharmacologist POSA, correct.
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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.	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 recommendation for that use, correct?  A Correct. Q Throughout your report, you reference what a "pharmacologist POSA" would find obvious, correct?  A I was asked to serve as a pharmacologist POSA, correct. Q Correct. And that's the perspective that you bring to the litigation.
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.  Q Okay. And you have never observed or	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 recommendation for that use, correct? A Correct. Q Throughout your report, you reference what a "pharmacologist POSA" would find obvious, correct? A I was asked to serve as a pharmacologist POSA, correct. Q Correct. And that's the perspective that you bring to the litigation. A That's very, very clearly written in my
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	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.  Q Okay. And you have never observed or treated the withdrawal and side effects of	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 recommendation for that use, correct? A Correct. Q Throughout your report, you reference what a "pharmacologist POSA" would find obvious, correct? A I was asked to serve as a pharmacologist POSA, correct. Q Correct. And that's the perspective that you bring to the litigation. A That's very, very clearly written in my declarations, yes.

	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
1	A I don't think that I said in my	1	pharmacologist would routinely collaborate with
2	declaration the POSA team. And we might want to	2	others, such as formulators and clinicians, to
3	take a look exactly at the section that deals with	3	achieve a target pharmaceutical profile, correct?
	•		
4	that Maybe you can beln me find that section	4	
4 5	that. Maybe you can help me find that section.  Out of the withdraw that question, and let	4 5	A Yes.
	Q Let me withdraw that question, and let		<ul><li>A Yes.</li><li>Q And here you collaborated with a</li></ul>
5	Q Let me withdraw that question, and let me go back to the previous question.	5	A Yes.  Q And here you collaborated with a formulator, Dr. Donovan, correct?
5	Q Let me withdraw that question, and let me go back to the previous question.  You agree that the clinical	5	A Yes. Q And here you collaborated with a formulator, Dr. Donovan, correct? A Can you define collaboration?
5 6 7	Q Let me withdraw that question, and let me go back to the previous question.  You agree that the clinical pharmacologist generally serves as a link between	5 6 7	A Yes. Q And here you collaborated with a formulator, Dr. Donovan, correct? A Can you define collaboration? Q Well, how do you define collaboration?
5 6 7 8	Q Let me withdraw that question, and let me go back to the previous question.  You agree that the clinical pharmacologist generally serves as a link between formulators and clinicians, correct?	5 6 7 8	A Yes. Q And here you collaborated with a formulator, Dr. Donovan, correct? A Can you define collaboration? Q Well, how do you define collaboration? A It depends on what area. If I
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	Page 354		Page 356
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	5	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 some
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	O 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 357
1	Q Thank you.	1	opioid-naive individuals, correct?
2	Now, as between you and Dr. Williams,	2	A Yes.
3	Dr. Williams has more experience in assessing the	3	Q And naloxone does not generate
4	lowest effective dose of naloxone to treat a	4	withdrawal effects on opioid-naive individuals,
5	patient suffering from an opioid overdose,	5	correct?
6	correct?	6	A Correct.
7	MR. BERMAN: Objection to form.	7	Q And the pK studies do not reflect what
8	A He treats patients. As I said, I don't.	8	withdrawal symptoms an opioid overdose individual
9	Q Right. So the answer to my question is	9	will experience or at what dose of the naloxone
10	yes, Dr. Williams has lots more experience because	10	they will experience those, correct?
11	you have never done it, right?	11	A pK studies have a very, very clear
12	MR. BERMAN: Objection to form.	12	goal. They want to look at the concentration time
13	A I've never treated a patient.	13	profiles of naloxone after a given administration.
14	Q And so, therefore, Dr. Williams, who has	14	The goal of pK studies is not to investigate
15	treated patients on narcotics for decades, has	15	potential side effects in patients.
16	more experience than you do treating patients with	16	Q And they can't tell you anything about
17	naloxone, right?	17	the potential side effects in patients for that
18	A Yes.	18	reason, right? That's not what they're designed
19	MR. BERMAN: Objection to form.  Q Right?	19	to do.
20		20	A That's that's yeah, those studies



21

22

Yes.

Q Thank you.

are not interested in evaluating that.

Q Now, the priority date for this matter

21

22

# DOCKET A L A R M

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