MARY LOU ZIMMERMAN, et al. vs. DONALD A MALONE, JR., M.D. THE CLEVELAND CLINIC FOUNDATION

1 INTHE COURT OF COMMON PLEAS CUMANDA COUNTY, CHO 2 CUMANDA COUNTY, CHO 3 Mark TOU ZIMMEMAN, Mark Tou Defendant, Defend			
2 CUX-MAGA COLINT, OHIO 2 called by the Plaintifs for the purpose of 4	2		
3 MARY LOUZIMMERANN, 4 3 cross-examination, as provided by the Rules of CNil 4 4 Plaintiffs, 5	-		
Plaintifs, 1 Plaintifs, 1 Proceeding Unit mission, as follows: Var. USE BUINSIDE THE CLEVELAND CLINIC FOUNDATION, Defendant. Department Point Rule I my co-counsel in this Department Point Rule I my my co-counsel in this Department Point Rule I my co-counsel my co-)		
 Plennitis,		et al.,	
 GrossEXAMINATIONOF DONALD A MALCNE, R. ND. THE CLEVELAND CLINIC FOUNDATION. Defendant. Defendant. Defendant. Defendant. Defendant. Defendant. C. D. Malone, H., my name is Bob Linton. We metjust a momentage. Mark Rult any mococursel in this case, and we represent Mary Los Zmmerma and her husband in a case that's beam filed against The liceveland Clinic Foundation, 9500 Euclid Avenue, Room PE-115A, Cleveland, Ohio, at 24 5 p.m. on this cause. Tuesday, August 22, 2000, pursuent to notice and/or stipulations of counsel, on behalf of the Plaintifs in this cause. Wase REEPOSTING SERVICE Zervice and the Plaintifs APPEARANCES: APPEARANCES: Mark W, Ruf, Eng. Hume and the Plaintifs: Appending a substration action action for the plaintifs: Appending a substration action for the plaintifs: Arment and the Differed and the Defendant. Chobral of the Defendant. Constant whe any plantice cases. Chobral of the Defendant. Constant whe appreciation action action and practice actions of malpractice. Constant whe appreciation action action action and practice actions of malpractice. Constant whe appreciation action action action action and practice actions action and practice actions action acti		Plaintiffs,	
7 THE CLEVELANDCLINIC FOUNDATION, Defendant. 9 Dr. Maione, hi, my name is Bob Linton. We metjust a momontage. Mark Rul is my co-counsel in this case, and we represent Mary Low Zhomerrean and her hubband in a case that's been field agains The Cleveland Clinic Foundation, 9500 Euclid Avenue, RoomPer 114A, Cleveland, Ohio, at 245 p.m. on this cause. 10 The Cleveland Clinic Foundation, 9500 Euclid Avenue, RoomPer 114A, Cleveland, Ohio, at 245 p.m. on this cause. 20			
 THE CLEVELAND CLINIC FOUNDATION, Defendant. Defondant. Deposition of DONALD A MALONE, R., MD, taken at momentage. Mark Rul is mococursel in this case, and we represent Mary Loa Zimmerman and her husband in a case that's been filed against. The Care Section of Donald on the State of Ohio, at The Cleveland Clinic Foundation, 9500 Eculid/Avenue, Rom Re-1136, Clouded, Ohio, at 245 pm. on Tuesday, August 22, 2000, pursuant to notice and/or in this cause. The Cleveland Clinic Foundation, 9500 Eculid/Avenue, Rom Re-1136, Clouded, Ohio, at 245 pm. on Tuesday, August 22, 2000, pursuant to notice and/or in this cause. Tuesday, August 22, 2000, pursuant to notice and/or in this cause. Wake D EEPOOTTIN SERVICE Wake D EEPOOTTIN SERVICE Care Source Section Walk Clinic and aparactice case against me. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case. Care Source Section Walk Rul is an aparactice case against me. Care Source Section Walk Rul is an aparactice case. Care Source Section Walk Rul is an aparactice case. Care Source Section Walk Rul is an aparactice case. Care Source Section Walk Rul is an aparactice case. Care Source Section Walk Rul is an aparactice case. Care Source Section Walk Rul is an aparactice case. Care Source Section Walk Rul is an aparactice case. Care Source Section Wal	7	-V5- CASE NO. 355411	
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10 11 Deposition DONALD A MALONE, JR, MD, taken 12 as if upon cross-examination before Laura L Ware, a 13 Notary Public within and for the State of Chio, at 14 The Cleveland Clinic Foundation, Spoo DEuclidAwenue, 15 Room Pe-115A, Cleveland, Ohio, at 245 p.m. on 16 Tuesday, August 22, 2000, pursuanto notice and/or 17 stipulations of counsel, on behalf of the Plaintiffs 18 In this cause. 20		Defendant.	
11 Deposition of D0NALD A. MALONE, JR, MD, taken 12 as if upon cross-examination before Laura L. Ware, a 13 Notary Public within and/or the State of Oho, at 14 The Claveland Clinic Foundation, 9500 Euclid Avenue, 15 Room PE-1150, Cleveland Clinic Foundation, 9500 Euclid Avenue, 16 Tuesday, August 22, 2000, pursuant ontico and/or 17 stipulations of coursel, on behalf of the Plaintiffs 18 in this cause. 20 21 WARE REPORTING SERVICE 22 WARE REPORTING SERVICE 23 (216) 335-7000 FAX (440) 333-0745 24 1 24 1 25 2 26			
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 Notary Public within and for the State of Ohio, at The Cleveland Clinic Foundation, 9500 EuclidAvenue, Room Pe-1158, Cleveland, Ohio, 1245 p.m. on Tuesday, August 22, 2000, pursuant to notice and/or stipulations of ocursel, on behalf of the Plaintiffs in this cause. UNARE REPORTING SERVICE (216) 5337606 FAX (440) 333.0745 APPEARANCES Robert F, Litter, Jr., Est, Carting Fabrican Service Carting Fabrican Service Cartific F		-	
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MARYLOU ZIMMERMAN, et al. vs. DONALD A MALONE, JR., M.D. THE CLEVELAND CLINIC FOUNDATION

		5		7
	1	A. Notthat I recall.	1	Q. And that's the only document you reviewed in
	2	Q What have you done to prepare for your deposition	2	preparation for your deposition today?
)	3	today?	3	A. That's correct, yes.
	4	A. I have reread my psychiatric evaluation of Mrs.	4	Q Do you have any other strike that.
	5	Zimmerman.	5	Did you have any handwritten notes you would
	6	Q. Anything else?	6	have taken at the time of your interview and
	-7	A. No.		- evaluation of Mary Lou?
	8	Q. Have you ever reviewedany other part of the	8	A Only such that would have generated this document
	9	Cleveland Clinic chart besides your psychiatric	9	and subsequently would have been thrown away. $ { m I} t$
	10	evaluation?	[°] 10	just says that I reviewed records from Dr. Donelly,
	11	A. No, I have not.	11	who she had been seeing for the past ten years, and
	12	Q. Have you at any time reviewedany other part of Mary	12	her several inpatient hospitalizations at the
	13	Lou Zimmerman's chart at the Cleveland Clinic?	13	Menninger Institute.
	14	A. No, I have not. Let me correct one thing. The	14	Q. Can you be any more specific as to which of Dr.
	15	other records I have reviewed, at the time of her	15	Donelly's records you reviewed or which of the
	16	evaluation I reviewed her records from Menninger.	-16	Menninger Institute hospitalizations you reviewed?
	17	Q. Did you keep copies of those records?	17	A. No, I cannot.
	18	A. They should be in her chart, but I don't know.	18	Q. Do you have any independent memory of what was
	19	Q. If they are not in her – when you say her chart,	19	contained in those records?
	20	would that be the Cleveland Clinic chart7	:20	A. No, Ido not.
		A The Cleveland Clinic chart here.	:21	Q. Do you know how it was that those records came to
	22	Q. Do you maintain a separate chart for her?	:22	you?
	23	A. No.	:23	A I don't recall.
	24	Q. So any records, if they still existed, would be	:24	Q Is your practice when evaluating strike that.
	25	A. Would be a part of her Cleveland Clinic record.	:25	I would assume you would have evaluated, before
• •				
		6		8 Mary Lou Zimmerman, other patients for the
	1	Q. Do you know for which hospitalizations at	1	Mary Lou Zimmerman, other patients for the
		Monninger -		
	2	Menninger -	2	possibility of psychosurgery?
		A. No.	2 3	possibility of psychosurgery? A I have donethat.
	3 4	A. No. Q. – you had records for?	3 4	possibility of psychosurgery? A I have donethat. Q. B the practice to have the patient bring the
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	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24	 A. No. Q you had records for? A. No, I do not. Q. Do you know the dates? A. Unless it says in my - may I refer to that copy? Q. Let me start off by saying this is an open book exam. A. All I need is that copy. Q. Exhibit2 is the only record that you would have generated or reviewed in preparation for your deposition, correct? Bad question. Let me rephrase that. Exhibit 2 is your psych evaluation7 A That's correct. Q. That's dated August 31st, 1998? A That's correct. Q. I think it was dictated on that date? A Yes, as far as I know. I don't recall exactly, but I always dictate them the same day, so I would assume it would be the same day. Q. And that's the only record you would have generated 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 possibility of psychosurgery? A I have donethat. Q. Is the practice to have the patient bring the records, or is the practice to have your office or the Cleveland Clinic obtain the records? A. The practice is typically for the patient to have the records sent prior to their visit. Q. I take it you did not review for purposes of your deposition any medical texts, journal articles, studies, statistics? A I did not. Q. Did you as part of your evaluation of Mary Lou Zimmerman? A. Not that I recall. Q. Did you review any such authorities since this lawsuit was filed? MR. MALONE: You mean as a part of his routine or for purposes of the lawsuit? MR. MALONE: He looks at medical literature on a regular basis. MR. LINTON: Either one.

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- surgical techniques, but not anything out of my
 routine.
 Q. Do you have any teaching responsibilities?
- 4 A. At the Cleveland Clinic?
- 5 Q.Yes.
- 6 A. Yes.
- 7 _Q. What do those consist of?-
- 8 A. Medical students, residents.
- 9 Q. Any fellows?
- 10 A. On occasion we'll have a consultation fellow that11 111 deal with.
- 12 Q. Do you maintain a personal file yourself on
- 13 psychosurgery? And by psychosurgery, I mean any
- 14 type of psychosurgery.
- 15 A. There's no file. As in past articles or patients?
- 16 Q. Not patients. Articles, literature, statistics..
- 17 A.] have a huge file full \mathbf{c} papers, and I'm sure
- 18 there are several numerous ones on psychosurgery or
- **19** severe obsessive-compulsive disorder.
- 20 Q. Tell me how you file that information. You say you
- 21 have a huge file. What would that file be called?
- 22 A. With these I would likely have them under
- 23 obsessive-compulsive disorders.
- 24 Q. So you would have a subject file for
- 25 obsessive-compulsivedisorder?

10

- 1 A. Yes.
- 2 Q. And would you have a separate file for psychosurgery
- 3 or would that be part **d** your OCD file?
- 4 A. No, I don't believe I do. I believe it would be
- 5 under obsessive-compulsive disorder. With the
- 6 advent oftechnology, I don't file very many papers
- 7 anymore, so it would probably be very old.
- 8 Q. Do you maintain any kind of computer database
- 9 separate from a Medline or something you plug into?
- 10 A. No.
- 11 Q. What medical texts would you refer one of your
- 12 students to, be it a medical student or a resident
- 13 or a fellow, who wanted to know more about
- 14 psychosurgery?
- 15 A. I wouldn't refer them to a medical text, I would
- 16 refer them to certain journal articles.
- 17 Q. What journal articles would you refer them to?
- 18 A. There really aren't very many. There's older
- 19 articles primarily. There was some stuff done at
- 20 Mass. General in the past, experience with 200 some
- 21 patients, which was written by a **Dr.** Balentine.
- 22 Q. And where was that published?
- 23 A. Idon't recall.
- 24 Q. Aside from Dr. Balentine's article, do you have any
- 25 other journal articles you would -

	11
٦	A. Send them to, no.
2	Q Do you know the title of Dr. Balentine's article,
3	the substance?
4	A Primarily experience of 200 some odd cases of
5	severe - with I believe it's cingulotomy and
6	anterior capsulotomy. \square think both of those are in
 - 7-	
 8	exact wording. It's been a while.
9	Q. Dr. Balentine was a pioneer in the filed?
10	A Certainly one of the first people to be doing
11	anything for obsessive-compulsive disorder, yes.
12	MR. MALONE You say "Balenteen," he
13	says Baientine. Iassume you're spelling them
14	both the same way.
15	THE WITNESS: T-I-N-E.
 16	MR. MALONE: It's all the same
17	
18	(Thereupon, a discussion was had off
19	the record.)
20	
21	Q. Do you know if the Balentine article discusses a
22	procedure in which both a cingulotomy and a
23	capsulotomy is performed?
24	A I don't recall.
25	Q. Have you ever seen a cingulotomy or capsulotomy

25 Q. Have you ever seen a cingulotomy or capsulotomy

12

- 1 performed?
- 2 A. No, I have not.
- 3 Q. Do you know any of the details as to how it's
- 4 performed?
- 5 A No, I do not.
 - Q. Do you know to what part of the brain it's
- 7 performed?

6

- 8 A. I understand where the anterior capsule is and I
- 9 understandwhere the cingulate gyrus is.
- 10 Q. Would you be able to graph on a medical illustration
- 11 where the surgery is performed?
- 12 A I would be able to graph the anterior cingulate
- 13 gyrus. I'm not sure I can point you to the anterior
- 14 capsule.
- 15 Q. So, for example, if I showed you Plaintiffs Exhibit
- 15 No. 3, do you recognize the middle showing a medical
- 17 illustration of the limbic system?
- 13 A. Yes.
- 13 Q You can obviously see there the cingulate gyrus?
- 20 A. Uh-huh.
- 2.1 Q. Is that just a yes for the Court Reporter?
- 22 A Yes.
- 23 Q Thank you. Are you able to diagram on there or mark
- 24 on there where the anterior capsule is?
- 25 A No, I don't believe I could exactly.

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4

THE CLEVELAND CLINIC FOUNDATION 13 15 Q. That's something you obviously have to rely on the 1 Q. Does the standard of care require in psychiatry, expertise of neurosurgeons, right, right? 2 when evaluating an OCD patient for psychosurgery, 3 that there be no known available treatment for the 3 A. Yes. Q. That's why they study neurosurgery and you study 4 clients, effective medical treatment for the - let psychiatry? 5 me rephrase that. 6 A Please. 6 A. You've got it. -O. Are-you-able to tell us where on the cingulate gyrus Q. Does the standard of care require that all known the surgeon performs the cingulotomy? 8 treatment modalities be exhausted before a patient 9 goes to have psychosurgery performed? 9 A. No, I could not. I believe it's in the anterior A. That is not a Cleveland Clinic requirement, it is my part of it, but that's all I know. 10 11 personal feeling and recommendation and certainly 11 Q. Again, that's something you have to rely on the 12 that of those people in the field. neurosurgeons for? -13 Q. That the standard requires that before surgery is 13 A. My role in these cases is to assure that all reasonable medical steps, other than surgery, have 14 considered? 15 A. Yes. been performed and they are indeed not responsive to 16 Q. What medications are-available to treat OCD?those treatments. A They're the serotonin reuptake inhibitors. 17 17 Q. And is that your sole role in the consultation 'i8 Q. Whichones? team? A There's Prozac. I'm giving you trade names, by the 19 A. That is my role. 19 20 Q. For evaluating a patient for psychosurgery at the 210 way. Paxil, Zoloft, Luvox. Cleveland Clinic? 211 Q. Can you spell that? 22 A. That is correct. 22 A. L-U-V-O-X. There's now a fifth one which was not 23 available at the time of this evaluation, so it Q. B that role published anywhere, is there any sort 214 of written procedure, protocol, guideline here at wouldn't have been an issue in this case, called 25 Celexa, C-E-L-E-X-A, and there's another medication the Cleveland Clinic? 14 16 1 called Anafranil. 1 A. There is no published guidelines to that. Q. Which was available then? 2 2 Q. Is it the unwritten guideline --what is the 3 A. Yes. unwritten guideline or procedure for evaluating a 4 patient at the Cleveland Clinic for psychosurgery? 5 5 A. It's to assure that they've received appropriate

- medication trials and either received or been 6
- 7 resistantto specific psychotherapyin order to be
- 8 called treatment resistant. There are veryfew
- 9 medications that are effective in the treatment of
- 10 obsessive-compulsive disorder as opposed to 11 depression.
- 72 Q. What medications I'm sorry, I don't want to cut
- 13 off your answer. If you could just explain to me --
- 14 A. That really was my answer.
- 15 Q what the guidelines are at the Cleveland Clinic
- for evaluating for psychosurgery? 16
- 17 A. For obsessive-compulsive disorder, which is what I
- do, it would be basically doing exactly what I said, 18
- 19 assuring that they've had appropriate medication
- 20 trials and appropriate psychotherapytrial.
- 21 Q. And to form what ultimate conclusion?
- 22 A. That they will not respond to known effective
- treatments for obsessive-compulsive disorder. have 23
- 24 not responded to them, and therefore have no other
- 25 alternative.

WARE REPORTING SERVICE

Pane 13 to Pane 16

- Q. And what are the therapeutic dosages for each of
- those?
- 6 A They're variable, depending upon the tolerance of
- 7 the patient. Prozactypically we use doses of 20 to
- 8 60 milligrams a day, Paxil would be 20 to 50
- 9 milligrams per day, Zoloft would be 50 to 200
- 10 milligrams per day, Luvox would be 50 to 300
- 11 milligrams per day, and Anafranil typically is
- 12 around 150 milligrams per day titrated to a blood
- 13 level.
- 14 Q. How about Celexa?
- A It's not really well studied, it's in that category, 15
- 16 but probably from 40 to 60 milligrams per day would
- 77 be reasonable. There's not a lot of experience with
- 18 that in obsessive-compulsive disorder, but it just
- 19 happens to be in that group of medications.
- 2 Q. And how long does the patient need to be under these
- 21 medications until a psychiatrist like yourself can
- 22 determine that they're not responding?
- 2'3 A Optimal response takes at least two to three months
- 24 to achieve, however at optimal dosages if you go for
- 25 a month or so and don't see any response at all, we

DONALD A MALONE, JR., M.D.

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THE CLEVELAND CLINIC FOUNDATION

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- begin to feel they're not going to respond and will 1
 - often change treatment.
- 3 Q. What neurotransmitters are treated or affected by
- Prozac? 4

2

- 5 A. Serotonin.
- Q. |s that with each of these?
- -A-That is correct
- Q. Which of these also treat depression? 8
- 9 **A.** All of them.
- Q. How is it that the same drug treats depression and 10
- also can treat OCD? 11
- 12 A. Well, a number of these, of the antidepressants, are
- effective for various anxiety disorders, 13
- 14 obsessive-compulsive disorder being one of those.
- O. How does that work? 15
- A. **Good** question. We don't know. 16
- Q. What's the theory? 17
- 18 A. We don't know. I wish I had a better answer for
- 19 you, and there's a number of people working on it,
- but the fact of the matter is we don't know. 20
- 21 We think that serotonin somehow controls
- 22 pathways in the cingulate gyrus going to the
- 23 prefrontal cortex and the thalamus, but it's
- 24 backwards reasoning. We don't know. We just know
- 25 that theywork.

18

- Q. Do you know the success rate of cingulotorny for 1 2 OCD?
- 3 **A.** Not exactly, **no.** I mean, there have been a number
- of different numbers people give, but there's not a 4
- 5 lot of experience. The ranges I've seen vary
- 6 tremendously.
- 7 Q. From what to what?
- 8 A. Well, you'll have some series of a few cases with a
- 9 hundred percent response and other larger series
- 10 with 40 to 60 percent response. So they vary
- dramatically. 11
- 12 Q. Can you cite to any specific literature that
- 13 publishes any statistics?
- 14 A. No.
- Q. What do you rely on when you say --15
- 16 A. Just, I mean, Balentine's article is certainlyone
- 17 historically often quoted. It's the largest in the
- 18 series, that I'm aware of.
- 19 Q. And what is his number?
- **A.** I don't recall exactly what it is. 20
- 21 Q. How about for capsulotomy, what's the success rate
- 22 for capsulotomy?
- 23 A. Again. I don't know the specific numbers per various
- 24 studies. There are ranges quoted, and again they're
- 25 oftentimes quoted in a very small series of patients

	19
1	and it can be anywhere from zero to a hundred
2	percent.
3	Q So there is a lower success rate for capsulotomy?
4	A. Well, there may be one patient that didn't respond,
5	zero or two patients that didn't respond.
6	Q. So there is some literature which shows a lower
- 7-	success-rate-forcapsulotomythan-cingulotomy?
8	A. No, not necessarily. That can be the case for
9	either of the procedures.
10	Q. So the literature – there's some literature for
11	both procedures which shows there may be no person
12	that responded to treatment?
13	A. There may be case reports of people that have not
14	responded.
15	Q And do you know the statistics for combined
16	cingulotomies and capsulotomies?
	A. I do not know.
18	Q. Do you know which is more effective for treating
19	OCD?
20	A. No, I do not.
21	Q. Do you know which of the three is more effective,

- 22 that is cingulotomy, capsuiotomy or combined
- 23 cingulotomy and capsulotomy?
- 24 A. No, I do not.
- 25 Q. Again, you rely on neurosurgery for that?

20

- A. Uh-huh.
- Q. That's a yes, just for the record?
- 3 A. Yes. I'm sorry.
- 4 Q. **B** there any internal statistics, to your knowledge,
 - maintained by the Cleveland Clinic on its success
- rate in psychosurgery? 6
- 7 A. Not to my knowledge.
- Q. To your knowledge what psychosurgery is performed at 8
- 9 the Cleveland Clinic, what procedures?
- 10 A. Cingulotomy, capsulotomy, combined
- 11 cingulotomy/capsulotomy.
- 12 Q. Anyothers?
- 13 A. I believe there's **some** procedures on the thalamus
- 14 for pain, but other than that I'm not really
- 15 familiar with those. It's not my area.
- 16 Q. What about leukotomy, are you familiar with that
- 17 procedure?
- A. Not really. 18
- 19 Q. What about frontal lobotomy?
- 20 **A.** Historically I'm certainly familiar with the
- 21 procedure. I'm not aware of It being performed.
- 22 Q. Based on just your experience and your studies, what
- 23 is a prefrontal lobotomy?
- 4 A. Well, again, historically, thankfully is all I'm
- aware of, which is a rather destructive lesion of 5

INDATION

21

- the prefrontal cortex which has rather significant 1
- 2 blunting effects, a mood affect behavior that was
- 3 done many years ago.
- Q. Was that ever done in an attempt to treat OCD? 4
- A. Notthat I'm aware of. 5
- Q. Do you know why cingulatomy works to treat OCD? 6
- A. No. -7-
- Q. Do you know why capsulotomy works? 8
- 9 A. No.
- Q. Do you know why a combination of the two would 10 work? 11
- 12 A. No.
- 13 Q. Is it your understanding that a portion of the brain
- is destroyed during the procedure? 14
- A Yes. 15
- 16 Q. And that the brain cells are killed, irreversible
- death? 17
- 18 A. Yes.
- Q. And how is that done? 19
- 20 A. I don't know exactly, other than I think there's
- 21 stereotactic leads placed and damage done directly
- to the brain, but that's mytotal understanding. 22
- Q. Were you aware that it was done by cooking those 23
- 24 parts of the brain, to use Dr. Barnett's wards?
- 25 A. They cause destructive lesions. I don't know how or

22

- 1 what.
- 2 Q. You don't know if It's burn, cook, cut, you don't
- know? 3
- 4 A. I do not know.
- Q. What, based on your experience and your research, 5 what percentage of the population suffers from OCD? 6
- 7 A. Estimates range anywhere from one to three percent
- of the population. 8
- Q. And what percentage of OCD patients would have 9
- severe OCD? 10
- 11 A. I mean, it depends on the definition.
- 12 Q. Why don't we start with how would you define severe 13 OCD?
- 14 A. Severe OCD is somebody who would score a severity
- rating of over 28 on what's called the Yale Brown 15
- obsessive-compulsivescale, but the more accurate 16
- 17 definition is when it significantly impairs their
- ability to work, relate, live. 18
- 19 Q. You would not have reviewed is it YBOCS?
- 20 A. Uh-huh.
- Q. Y-B-O-C-S. You did not review the actual results of 21
- Mary Lou Zimmerman's YBOCS text, did you? I know 22
- 23 you have the results listed: but you didn't actually
- 24 review the test itself?
- 25 A. Ithink I probably gave it to her. I usually do.

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	23
1	Q. Why don't you look at your report and tell us if you
2	can for sure.
3	A. She was administered a YBOCS and scored 38 out of
4	40. I can't tell from that.
5	Q. And I assume you have no independent memory?
6	A No, although often i do a YBOCS on people with OCD.
7	It takes two minutes. It's very easy to do.
8	Q. How do you do'a YBOCS test?

- 9 A. There's a scale, basically, which rates the severity
- 10 of obsessions and compulsions on five different
- 11 areas, and I just tear off sheets that you hand to
- '12 the patient. They rate it and you score it.
- 13 Q. Lassume you can't independentlytell us how long
- 14 you actually spent with Mary Lou Zimmerman?
- 15 A. No. Typically have an hour
- 16. Q. Wait. Let me just stop-you, just to be clear.-Do-
- ·17 you have an independent memory of this woman? By
- that, can you recall --18
- -19 As l cannot picture her, no.
- Q. Can you recall any conversations you had with her? 20
- 21 A. No.

-7

- 22 Q. You'd have to rely solely on what's in your report?
- в A That's correct
- н Q. Typically, how long would you spend with a patient
- æ like Mary Lou Zimmerman?

24

- A. One hour. That's with the patient. 1
- 2 Q. And would that include, in this case, Mary Lou
- 3 Zimmerman and her husband?
- 4 A. Yes. In reviewing this I understandher husbandwas
- 5 present.
- 6 Q. How much time would you have spent reviewing her
- 7 records?
- 8 A It depends on the extent of the records.
- Q. Since we don't know how extensive they were, you 9
- 10 couldn't tell us?
- 11 A Iwould have no idea, that's correct.
- 12 Q. Do you have an independent memory of discussing Mary
- 13 Lou Zimmerman with anybody?
- 14 A. No, I do not.
- 15 Q. Do you know if you would have discussed her case
- 16 with Dr. Barnett?
- 17 A. Certainly he would get a copy of this psychiatric
- 18 evaluation.
- 19 Q. Look at the top of Exhibit Number 2. There's a fax
- 20 number there. Do you see that?
- 21 A Uh-huh.
- 22 Q. And a date.
- 23 A. Uh-huh.
- 24 Q. And !can't read upside down. What is that?
- 25 9-23-98. The number of the fax, do you recognize

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	25	27
1	that fax?	1 A. That'scorrect.
∖ 2	A. That's my fax.	2 Q. And at that point then the patient goes to Dr.
2_3	Q. That's your fax?	3 Barnett in neurosurgery, he decides whether she's a
4	A. Uh-huh.	4 surgical candidate?
5	Q. You're not sure if you talked to Dr. Barnett, you	5 A. That's correct.
6	don't have an independent memory?	6 Q. You don't decide if she's a surgical candidate?
7-	-A. No, I do not.	
8	Q. And there's nothing in your record that confirms	8 Q. That would be solely Dr. Barnett's responsibility?
9	whether you talked to him or not?	9 A. That's correct.
10	A That's correct.	10 Q. And do you recall any conversations you had with Dr.
11	Q. To try to reconstruct things as best we can, Dr.	11 Donelly or Dr. Hughes, two psychiatrists?
12	Barnett would have seen the patient, according to	12 A. I do not.
13	his record, on August 31st , 1998, the same day which	13 Q. And anything in your records to show you would have
14	you saw the patient. You reference in your report	had a discussion with them?
15	on page two that they are scheduled to meet with Dr.	15 A. No.
16		16 _Q; is it your practice to have discussions with a
17	surgical risks	17 patient's treating psychiatrist?
18	A. Uh-huh.	 18 A. Only If the records I have reviewed are incomplete. 19 Q. B there anything in your report that indicates the
19	Q. Do you see that? A. Uh-huh.	20 records may have been incomplete?
20 21		20 records may have been incomplete? 21 A. No.
21	Q. Assuming that to be the scenario that unfolded, that the patient first saw you then went over to see Dr.	22 Q. Did anybody else in psychiatryevaluate the patient
22	Barnett, is it likely that you would have had a	23 besides you?
23 24	conversation with Dr. Barnett?	2 4 MR. MALONE: You mean in-house here at
25	A. It's possible.	2'5 The Foundation?
23		
1		
	~	28
4	26 O Octoor just don't know one way or the other?	28 1 MR LINITON Yes
1	Q. Or you just don't know one way or the other?	1 MR. LINION Yes.
1 2 3	Q. Or you just don't know one way or the other?A. I do not.	 MR. LINTON Yes. A. Not that I'm aware of.
3	 Q. Or you just don't know one way or the other? A. I do not. Q. How quickly strike that. If you knew Dr. 	 MR. LINTON Yes. A. Not that I'm aware of. Q. Are you aware of anybody else, besides you and Dr.
3 4	 Q. Oryou just don't know one way or the other? A. I do not. Q. How quickly strike that. If you knew Dr. Barnett - strike that. 	 MR. LINION Yes. A. Not that I'm aware of. Q. Are you aware of anybody else, besides you and Dr.
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DONALD A MALONE, JR., M.D. THE CLEVELAND CLINIC FOUNDATION MARYLOU ZIMMERMAN, et al. vs.

29	31
1 for the Cleveland Clinic web page	1 number of talks on OCD, but no other abstracts or
2 A. I have not.	2 publications.
3 Q. – on psychosurgery and OCD?	3 Q. Are those talks identified on your CV?
4 A. No, I have not.	4 A. Some would be if they're grand rounds
5 Q. Have you, yourself, published in the area \circ	5 presentations.
6 psychosurgery?	6 Q. Why don't you go through what's listed on your CV to
	-7 - see if there are any other-references-to-your
8 Q. Have you published in the area of OCD?	8 involvement with OCM
9 A. I have.	9 A gave grand rounds at Rockford Memorial Hospital in
10 Q. Could you just read for us or identify on there all	10 Illinois in March of 1995.
11 articles and	11 Q. Would you have written materials handed out a5 part
12 A Okay.	12 of the grand rounds?
13 Q any authorities that you would have published or	13 A. Not that I would have now. I may have sent some
14 assisted in publishing relating to OCD? And why	14 objectives and other things. I certainlywould have
15 don't we do this, I'm going to have you highlight	15 at that point. There was one given in the Milwaukee
16 just the numbers so we can keep track of that as you	.16 VA Hospital, grand rounds, December, 1995. Fort
17 call off which ones.	17 Worth, Texas, 1996, Texas School of Osteopathic
18 A. Publication number eight is a case presentation of a	18 Medicine, Grand Rounds. Gave a talk in Chicago,
19 patient I saw with one of the residents published in	19 1998, to an International Latino Psychiatric
20 1990on severe obsessive-compulsive disorder. And I	20 Association on obsessive-compulsive disorders. Gave
21 think that's it, but I edited a journal in 1999	21 a talk in May of 1999 locally. Gave a talk in
22 which I hate to say, since I edited it, but I	November of '99 on obsessive-compulsive disorder in
believe has a chapter on obsessive-compulsive	 23 the workplace to the International Employee
24 disorder.	24 Assistance Professionals Association.
25 Q, What do you do as an editor?	25 Q. Thank you. In any of your presentations did you
)	
) 30	32
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-	33		35
	in OCD?	1	psychosurgery?
γ^2	A. No, not currently.	2	A. I think six or seven.
) 3	Q , Any that you've been involved in previously?	3	Q. How many would you have evaluated at the time of
4	A. No, other than the one published patient, which was	4	Mary Lou Zimmerman's evaluation?
5	really a case report.	5	A. I think three.
e	Q. A case report in a single patient?	6	Q . Would she have been number three or number four?
7	-AThat's correct	-7	-AI don't recall
8		8	Q. How was it that you came to have that role as the
9		9	psychiatrist responsible for evaluating a potential
10		10	psychosurgery candidate?
1.1		1	A. One of my specialties is obsessive-compulsive
12	*	12	disorder, so that would be the role, that would be
13		13	the way.
14		114	Q. Is there some sort of
15			A. If it was another diagnosis, it could well be
16		.116	another psychiatrist.
17		17	Q. Was it your understanding that she was coming to the
18	e general data data data data data data data da	118	Clinic to be evaluated for the possibility of
19		19	psychosurgery?
20	•	20	A. I don't recall. I mean, from the reading of this,
21		21	my answer would be yes.
22		22	Q. And that's what I'm trying to find out. Were you
23		23	part of a team or a committee that was put together
24		24 25	to evaluate potential
25	brain that you were talking about earlier.	25	A No.
1			<u>,,</u>
1	34	1	36 Q. – psychosurgery patients?
1	Q. That being?		A No.
2		3	Q. This patient was an OCD patient, that's one of your
3	A. The cingulate gyrus. We actually have seen PET		specialties, so that's why she was assigned to you?
5		5	A. That'scorrect.
6	inferior frontal cortex, the cingulate gyrus, that	I	Q. Did you receive any special training on how to
7		7	evaluate patients for psychosurgery, other than your
8	-	8	psychiatric training and experience in OCD?
9	people have obsessions and/or compulsions, usually	9	A. No.
10	both, which take up a great deal of their time and	10	Q, Have you attended any CME seminars or APA seminars
11	impair their lives in other areas, areas of work,	11	that addressed the issue of psychosurgery?
12	relationships, family.	12	A. Certainly there have been conferences on OCD that
13	Q, Do we know why they have that disorder?	13	I've attended over the years that talk about
14	A. We certainly know it's hereditary, beyond that, no.	14	psychosurgery as an option. I don't believe there's
15	Q: Do you know what parts of the brain cause OCD or	15	been any CMEs strictly on psychosurgery.
16	control OCD behavior?	16	Q. How about CME seminars or APA seminars on how to
17	A. No.	17	evaluate a patient for psychosurgery?
18	Q. You said you've treated over a hundred patients with	18	A. Other than what would have been addressed in those
19		19	that I mentioned, no.
20		20	Q. Can you tell us of a specific seminar that you
21	Again, an estimate.	21	attended in which psychosurgerywould have been
) 22		2 2	discussed in connection with OCD?
23			A. Ican't recall one , no.
24		4	Q Do you keep a file for your certification purposes
25	Q. How many patients have you evaluated for	5	of CME seminars you attend?

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10 11

	_	37
	1	A. Yes, but the APA would simply say APA until you get
,	2	40 hours of CME. It wouldn't have each individual.
)	3	Q. Do you keep or make it a practice to keep research
	4	materials or handouts you receive from those
	5	seminars?
	6	A If they're valuable to me.
		Q. Can you think of anyone that addressed the issue of
	8	psychosurgerywith OCD?
	9	A. Not that I recall.
	10	Q. You trained at Mass. General?
	11	A. Uh-huh.
	12	Q. Was Mass. General performing psychosurgery at the
	73	time of your residency7
	14	A. Yes.
	15	Q. Were you involved at all in that?
	16	A. No.
	17	
	18	psychosurgery candidates?
	19	A No.
	20	Q Were there people in psychiatry that you worked with
	21	or trained under who were?
	22	A. Yes.
	23	Q. Who was that?
	24	A. There would have been a number of them. I believe
	25	at that time our chairman, Ned Cassem, C-A-S-S-E-M,
		38
	1	was the head d that committee.
	2	Q. That committee being -
	3 1	A They had a committee to evaluate patients for
	4	psychosurgery. Whether that exists now or not, j
	5	don't know, but that was obviously 12, 13 years
	6 7	ago. Q. Is there any comparable committee like that here at
	8	the Cleveland Clinic, to your knowledge?
	o 9	A. Notthat I'm aware of.
	10	Q Is there don't be afraid to blow your own horn.
	11	Is there anyone more qualified presently in OCD here
	12	at the Clinic other than yourself?
	13	A don't believe so.
	14	Q Do you knowstrike that.
	15	When would you have performed your first
	16	evaluation for psychosurgeryhere at the Clinic?
	17	A. Idon'tknow.

knowledge?	8	Q. Just to speed
	9	of your deposi
blow your own horn.	10	with the patien
ed presently in OCD here	11	31st; is that rig
self?	12	A. That'scorrect.
	13	Q. Is there any p
	14	patients like Ma
rformedyour first	15	evaluated and l
ryhere at the Clinic?	16	a psychiatric st

- Q. Well, Mary Lou Zimmerman was in '98. Would you have 18
- 19 been doing it before 1995?
- 20 A. No.
- Q. How about before '971 21
- 22 A It's possible. I don't recall. I would guess a
- year, year and a half, two years before this, but 23
- 24 that, again, I'm guessing.
- Q. When you say you guess that, are you somehow 25

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1	thinking of a change in your responsibilities or
2	anything?
3	A. No.
4	Q That's just your memory?
5	A. Right.
6	Q. How did they start performing psychosurgery at the
-7-	Cleveland-Clinicfor OCD;-do you-know?
8	A. No, I don't know.
9	Q. How did you first become aware of it?
10	A. My best recollection is I had a talk with Gene
11	either when I was talking to neurosurgeryabout
12	something unrelated or something and he said he had
13	an interest in It.
14	$\ensuremath{Q}\xspace.$ Would that have been within approximately a two-year
15	window before you saw Mary Lou Zimmerman?
16	A. I'm guessing, but yeah.
17	Q Did you bring it up or did he bring it up?
18	A. Idon't recall.
19	Q. But somehow you knew that It was out there as a
20	possible treatment option and $-$
21	A. Oh, yeah.
22	Q you discussed it with Gene?
23	A. Uh-huh.
24	Q. What, to the best of your memory, was discussed? I
25	mean the substance of the conversation.
1	A I don't recall, other than he had an interest.
2	Certainly I see my share of treatment resistant OCD,

- 3 which is sent here from all over.
- 4 Q. Do you know if anybody else here at the Clinic
- 5 besides Dr. Barnett is performing psychosurgery for
- OCD? 6
- A Not that I'maware of. 7
- things up, I was told before the start
- ition you didn't have any involvement
- nt after the evaluation of August
- ht?
- rotocol or procedure for following up
- ary Lou Zimmerman once they are
- have psychosurgery at the Clinic from
- tandpoint?
- 17 A From a psychiatric standpoint, only if they're local
- 18 and do not have a psychiatrist.
- Q. The understanding is she would be followed by her 19
- 20 home psychiatrist once she was discharged?
- 21 A. That's correct.
- 22 Q. Have you ever, of the six or seven patients that
- 23 you've evaluated, have you found any were not
- 2'4 candidates for psychosurgery or that there were
- 25 other alternatives besides surgery available for

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	41	43
1	those patients?	1 my own patients with OCD.
2	A. I need to correct something if I misspoke.	2 Q. Do you recommend the ECT for any of your own
) 3	Q. Sure.	3 patients?
4	A I've evaluated more patients than that. These are	4 A. Yes.
5	patients that actually went through with	5 Q. For depression?
6	psychosurgery.	6 A. Yes.
	Ql.see,So_of_the six or-seven-have-been- he-numbers	
.8.	that actually went through for psychosurgery?	8 of OCD by ECT?
9	A That's correct	9 A. There really isn't much. On occasion you'll get a
10	MR. MALONE: That he's referred.	10 case report that somebody responded, but most of the
/ 11	A. That I've referred.	11 literature in OCD is pretty clear that ECT is not an
12	Q. That you've evaluated. And how many patients would	112 effective treatment.
13	you have evaluated as potential candidates for	13 Q. Do you know whether or not Mary Lou had ECT?
14	psychosurgery?	14 A Unless it's in this record, I would not know.
15	A. I don't know. I see I will frequently see people	15 Q It's not something you would ever recommenda
16	who come here referred for treatment resistant	16 patient try before
17	obsessive-compulsive disorder where psychosurgery	17 A No.
18	has been thought of as an option by their	18 Q undergoingpsychosurgery?
19	psychiatrist, so that would be i don't know	19 A. No, I would not.
20	exactly how many, but that would be a much larger	 20 Q. When you have of the patients you specifically 21 have seen to evaluate for psychosurgery, why have
21	number.	have seen to evaluate for psychosurgery, why haveyou recommended against the surgery?
22 22	Q. Are you able to estimate in any sort of range? A. Most of those 40 patients I see every year are	23 A. The only reason I would recommend against the
23 24	referred to me for treatment resistance. Very few	24 surgery would be they had inadequate trials of
24 25	come in as their first shot at treatment, but not	25 either medication and other psychotherapy.
, 20	come in as their mist shot at treatment, but not	
)		
	42	44
1	all 40 of those obviously per year get referred	 Q Ever refer any patients to a neurosurgeon outside the Cleveland Clinic for psychosurgery?
2 3	because of psychosurgery. Q. That's what I'm asking. How many would you see -	3 A. No, I have not.
4	A. Exclusively referred?	4 Q. And all the psychosurgery patients that you've
4 5	Q. Exclusively referred.	5 evaluated and decided there was no other medical
	A. I'd say double the number that went through.	6 treatment would have been referred to Dr. Barnett?
7	Q. Have you, aside from that group of patients, have	7 A. That's correct.
8	you recommended psychosurgery to any of your other	8 Q. Do you know what his experience and expertise is in
9	patients that you're treating for OCD?	9 performing psychosurgery?
10	A. One of the patients evaluated was my own patient.	10 A No, I do not.
11	Q. You said that you evaluated. Did you determine as	11 Q. Doyouknowhow many procedures he's performed?
12	the treating psychiatrist that	12 A. No, I do not.
13	A. Right, I was the treating psychiatrist. You changed	13 Q. Do you know his success or complication rate?
14	the word on that, but, yes, as the treating	14 A No, I do not.
15	psychiatrist we had exhausted all other options.	15 Q. Are there other institutions more qualified to
16	Q. Is electric shock ever used to treat OCD?	16 perform psychosurge
17	A. On occasion it's used. It is not thought to be	17 A. Idonotknow.
18	effective.	18 Q. You don't know, for example, that Mass. General
19	Q. Have you is electric shock available here at the	19 would be more experienced in psychosurgerybased on
20	Cleveland Clinic?	20 what you learnedduring your residency?
21	A. Yes.	21 MR. MALONE: I'm going to show an
22	Q. Have you ever performed electric shock or had it	22 objection. I don't think experience equates to
23	performed on any of your patients with OCD?	competence, but you can answer the question.
24	A. I've certainly seen patients who have had ECT	4 A Balentine certainly had vast experience, but to my
25	performed in the past. \blacksquare do not recommend ECT for	5 knowledgehe's no longer practicing psychosurgeryat
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	45	47
1	Mass. General. Again, that also doesn't equate to	1 even today?
<u> </u>	competence, and it dates me a little bit, but it	2 A. Amongst who, the lay public?
/ 3	1 1	3 Q. Amongst the medical community.
4	Q. What neurosurgeons do you know of who perform or	4 A. Well, certainly psychosurgery has a long history in
5	1 15 85	5 the lay community, a rather sordid history, so
6	5	6 obviously it's controversial in that respect.
7		-7-would say amongst psychiatrists who treat OCD it's
^{``} 8	heard of Cosgrove at Mass. General and that's it.	8 of not very controversial simply because we see the
9	Q. And Dr. Barnett, obviously?	9 patients that simply don't respond to anything else
10	A. Yes. that's correct.	whose lives are run by their OCD , high suicide
11		1 rates, other kinds of things that just really leave
12		2 us no good alternatives.
13		3 Q. By the way, Mary Lou Zimmerman was not a high
14		14 suicide rate, was she?
15		15 MR. MALONE: A high suicide rate or
16		16 risk?
17		17 MR. LINTON: Risk. Thank you.
18		8 A. Unless it says in here, I do not know. I don't
19	Q. Do you know about his expertise or experience?	9 recall.
20	A I really don't to any significant degree.	20 Q. Why don't you take a look at your report and see,
21	Q. i think we've covered this, in essence, but in	1 first of all, if she was a high suicide risk. Is
22	summary, you rely on neurosurgery to decide if the	that something you would have noted in your report;
23	surgery is appropriate, correct?	is that an important piece of information when
24	A. That's correct.	4 evaluating a patlent?
25	Q. You rely on neurosurgical expertise to decide if the	5 A. That's an important piece of information, though it
/		
1	patient is an appropriate candidate?	1 would not change my recommendation for her.
2	A. That's correct.	2 Q. If you look at the mental status examination, second
3	Q. The neurosurgeon decides the type of surgery to	3 last sentence.
4	perform?	
5	A. That's correct.	4 A. Okay. She's had some suicidal thoughts in the past,
-	A. That's correct.	4 A. Okay. She's had some suicidal thoughts in the past,5 nothing currently.
6	Q. You have no expertise to recommend the type of	
		5 nothing currently.
6	Q. You have no expertise to recommend the type of	5 nothing currently.6 Q. So you did not consider her a suicide risk at the
- 6 7	Q. You have no expertise to recommend the type of psychosurgery or even if psychosurgery should be	 5 nothing currently. 6 Q. So you did not consider her a suicide risk at the 7 time of the evaluation?
6 7 8	Q. You have no expertise to recommend the type of psychosurgery or even if psychosurgery should be performed?	 5 nothing currently. 6 Q. So you did not consider her a suicide risk at the 7 time of the evaluation? 8 A. At the time of the evaluation, no.
6 7 8 9	 Q. You have no expertise to recommend the type of psychosurgery or even if psychosurgery should be performed? A. That's correct. 	 5 nothing currently. 6 Q. So you did not consider her a suicide risk at the 7 time of the evaluation? 8 A. At the time of the evaluation, no. 9 Q: And the sole determination you made is that her OCD
6 7 8 9 10 11	 Q. You have no expertise to recommend the type of psychosurgery or even if psychosurgery should be performed? A. That's correct. Q: Are you aware of any clinical trials on 	 5 nothing currently. 6 Q. So you did not consider her a suicide risk at the 7 time of the evaluation? 8 A. At the time of the evaluation, no. 9 Q: And the sole determination you made is that her OCD 0 was treatment resistant, correct?
6 7 8 9 10 11	 Q. You have no expertise to recommend the type of psychosurgery or even if psychosurgery should be performed? A. That's correct. Q: Are you aware of any clinical trials on cingulotomies and capsulotomies combined? A. On that specific procedure? 	 5 nothing currently. 6 Q. So you did not consider her a suicide risk at the 7 time of the evaluation? 8 A. At the time of the evaluation, no. 9 Q: And the sole determination you made is that her OCD 0 was treatment resistant, correct? 1 A. That'scorrect.
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. You have no expertise to recommend the type of psychosurgery or even if psychosurgery should be performed? A. That's correct. Q. Are you aware of any clinical trials on cingulotomies and capsulotomies combined? A. On that specific procedure? Q. Yes. A. No. Q. Anyanimal studies? A. Not that I'm aware. Q. Animal studies are used from time to time to study, for example, drugs in psychiatric conditions; are they not? A. Certain conditions, conditions they can mimic. Q. Do you know if the psychosurgeries performed at the Cleveland Clinic are approved by Medicaid or 	 5 nothing currently. 6 Q. So you did not consider her a suicide risk at the 7 time of the evaluation? 8 A. At the time of the evaluation, no. 9 Q: And the sole determination you made is that her OCD 0 was treatment resistant, correct? 1 A. That'scorrect. 2 Q. You didn't evaluate the depression or risk of 3 suicide or anything else like that, did you? 4 A. That's correct. 5 Q. Under your diagnosis you deferred an Axis II 6 diagnosis; that's correct? 7 A. Yes. Axis II, personality order diagnoses, are made 8 over the long term, and I think you'd have to know 9 somebody more than one session. 0 Q. You didn't rule out the possibility that she had a 1 personal disorder; is that correct? 2 A. That's correct.

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DONALD A	MALONE, JR., M.D. THE CLEVELAND CLINIC FOUND
49	51
If she, in fact, was depressedwould you have been	1 the second one was partially improved for the OCD.
in a position to make that diagnosis?	2 Q. And how would you define significantly improved?
I would have if she had oftentimes people have	3 A. The first person had a greater than 50 percent
depressive symptoms with their OCD. If she had a	4 decrement in their YBOCS score.
separate diagnosis, I would have noted it.	5 Q. And how about partially?
And you did not note any separate depressive	6 A. I believe the second person had about a 20 percent
symptoms?	-7-decrement.
Not according to my workup.	8 Q. Any side effects that you were aware of from the
Do you know what fiber tracts are actually destroyed	9 surgery?
during the psychosurgery?	10 A. With the
No. I'do not.	II Q. I'm sorry. Specifically with these two patients,
We may have covered this already, excuse me if I'm	12 did either of them suffer side effects?
repeating myself, but you don't know how big the	13 A. Psychiatric side effects of the surgery?
actual lesion is that's created, correct?	14 Q. Any kind of side effects, psychiatric or otherwise.
Idonot.	15 A. Yeah, one had - the second one had an intectious
Have you followed up with any other patients that	16 complication.
you have strike that.	17 Q. Do you know what organism?
Have you followed up with any other patients	1 a A. No, I do not.
who have had psychosurgeryperformed here at the	19 Q. Do you know were there any do you know the cau
Cleveland Clinic with OCD?	20 of the infection?
Yes.	21 A. Ido not.
How many patients?	22 Q. Was Dr. Barnett the same surgeon that performed t
I followed up with two of them.	23 surgery?
And when was the surgery performed in those	24 A. Yes.
patients?	25 Q. Do you know what procedure was performedon that
50	52
One was approximately a year and a half ago or a	1 patient?
little over a year ago, the other would have been	2 A. Ido not recall.
the first patient, so it probablywould have been	3 Q. Either a cinguiotomy, capsulotomy or a combination
three years ago. $egin{array}{c} have not followed with either \end{array}$	4 A. That's correct.
one recently.	5 Q. Do you know if there were any long-term effects fro
When did you last follow the 1997 patient?	6 the Infection?
It's been a couple of years.	7 A. She initially had some air as a result of the
So you would have followed them for about a year or	8 infection whichsome air introduced as a result
so after surgery?	9 of infection, sometimes you get air, and there were
Idon't think I even followed them that long. Isaw	10 some neurocognativedeficits requiring some rehab.
him once or twice postoperatively.	11 Idon't know how she's doing now.
And how about the 1999 patient, how long did you see	12 Q. You don't know If they're permanent?
that patient postoperatively?	13 A. There was improvement.
The last time would have been about four months	14 Q. But not resolution at the time you last saw her?
ago.	15 A. At the time I last saw her, no, not complete
So that would have, likewise, been a year after the	16 resolution.
surgery?	17 Q. Aside from those <i>two</i> patients, and now we know M
Yes.	18 Lou Zimmerman would be patient number three, are
How long does it take for the full effects of	19 able to tell us the success or complication from the

- 20 patients that have undergone psychosurgerythat you
- 21 have recommended to Dr. Barnett?
- 22 That was a bad question. Did you understand
- 23 the question?
- 2'4 A. No.
- 25 Q. Okay. [']] object to my own question there.

- 1 Q
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- 8 A.
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- 14 A. 15 а
- Q. 3 16
- 17 S
- A. \ 18
- 19 Q.
- 20 psychosurgery, if successful, to materialize?
- 21 A. Like other patients for OCD, It can take several 22 months.
- 23 Q. What was the status in terms of success rate of
- 24 those two patients, in your judgment?
- 25 A. The first one was improved, significantly improved,

WARE REPORTING SERVICE

MARY LOU ZIMMERMAN, et al. vs. VELAND CLINIC FOUNDATION 51 tially improved for the OCD. fine significantly improved? greater than 50 percent CS score. v? rson had about a 20 percent ou were aware of from the with these two patients, side effects? of the surgery? , psychiatric or otherwise. cond one had an infectious _ ------__ - anism? e any -- do you know the cause me surgeon that performed that cedure was performedon that 52 apsulotomy or a combination? ere any long-term effects from air as a result of the air introduced as a result you get air, and there were eficits requiring some rehab. doing now. re permanent? nt. e time you l**as**t saw her? er, no, not complete atients, and now we know Mary e patient number three, are you

		53		หนายังได้เป็นไหน่ แต่เป็นการไปประว
	1	You said that your best memory is about six or	1	there to sug
	2	seven patients that you've treated specifically for	2	you know, fo
1	3	or evaluated specifically for psychosurgerythat	3	And the p
	4	have actually had the psychosurgery. Iwant to see	4	improvemer
	5	how they responded to that surgery, and you've	5	that, as I do
	6	discussed these two patients plus we know about Mary	6	rare with me
	7	Lou Zimmerman. Are you able to teli us-aboutany	7	
	8	other patients in terms of their success or	8	that cure is i
	9	complications from the procedure?	9	Q. Even by ps
	10	A. Other than one that I've talked to their	ា ០	A. By any moo
	11	psychiatrist who had a good response.	ğ11	unusual.
	12	Q. That would be based on secondhand information?	12	Q. Well, what a
	13	A. That's correct.	13	successful?
	14	Q. Not based on your own evaluation, correct?	14	A. Well, the lite
	15	A That's correct.	15	considers a
	16	Q. And how long ago how long after the surgery did		percent.
	17	you have that discussion with the psychiatrist?	17	Q. On the YBC
	18	A. The discussion was at the APA, the surgery was	18	A. That's corre
	19	approximately six months prior. The APA was in	19	Q. And would
	20	May.	20	A A significan
	21	Q. Now, I assume you don't have an independent memory	21	improvemen
	22	of any discussions you had with Mary Lou Zmmerman	22	Q. Would you
	23	and her husband concerning the risks and	23	A. That's what
	24	complications of this procedure?	24	to any treatn
	25	A. That's correct.	25	well.
١				
2	1	54 Q. You'd be relying upon what you typically tell a	1	Q. You would r
2	1 2	Q. You'd be relying upon what you typically tell a	1	
		Q. You'd be relying upon what you typically tell a patient?		possible suc
	2	Q. You'd be relying upon what you typically tell a patient?A. That's correct.	2	
	2 3 4	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on 	2 3 4	possible suc or would you A. I would not.
	2 3 4 5	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on your practice and custom concerning the potential 	2 3 4 5	possible suc or would you A. I would not. Q. Would not.
	2 3 4 5 6	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on your practice and custom concerning the potential risks and benefits from a psychiatric prospective of 	2 3 4 5 6	possible suc or would you A. Iwould not. Q. Would not. there's a 50 t
	2 3 4 5 6 7	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on your practice and custom concerning the potential risks and benefits from a psychiatric prospective of a cingulotomy? 	2 3 4 5 6 7	possible suc or would you A. I would not. Q. Would not. there's a 50 t don't cite sta
	2 3 4 5 6 7 a	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on your practice and custom concerning the potential risks and benefits from a psychiatric prospective of a cingulotomy? MR. MALONE Now, I want to just 	2 3 4 5 6 7 8	possible suc or would you A. I would not. Q. Would not. there's a 50t don't cite sta A. i don't.
	2 3 4 5 6 7 a 9	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on your practice and custom concerning the potential risks and benefits from a psychiatric prospective of a cingulotomy? MR. MALONE Now, I want to just interpose an objection and make it clear that 	2 3 4 5 6 7 8 9	possible suc or would you A. Iwould not. Q. Would not. there's a 50 t don't cite sta A i don't. Q. You don't ta
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	2 3 4 5 6 7 a 9 10 11 12 13 14 15 16	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on your practice and custom concerning the potential risks and benefits from a psychiatric prospective of a cingulotomy? MR. MALONE Now, I want to just interpose an objection and make it clear that he's already testified that he does not endeavor to advise patients of surgical risks. These are psychiatric factors only, which is his area as a psychiatrist. Q. That's correct what Mr. Malone just said, correct? A. Correct, and I certainly don't discuss the surgery or any of its potential risks because I don't know 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	possible suc or would you A. Iwould not. Q. Would not. there's a 50 t don't cite sta A i don't. Q. You don't ta A That'scorre Q. Other than i A That'scorre Q. When you d how do you d Zimmerman? A. What I do in
	2 3 4 5 6 7 a 9 10 11 12 13 14 15 16 17	 Q. You'd be relying upon what you typically tell a patient? A. That's correct. Q. What would you have told Mary Lou Zimmerman based on your practice and custom concerning the potential risks and benefits from a psychiatric prospective of a cingulotomy? MR. MALONE Now, I want to just interpose an objection and make it clear that he's already testified that he does not endeavor to advise patients of surgical risks. These are psychiatric factors only, which is his area as a psychiatrist. Q. That's correct what Mr. Malone just said, correct? A. Correct, and I certainly don't discuss the surgery or any of its potential risks and benefits I discuss are the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 possible suc or would you A. Iwould not. Q. Would not. there's a 50 f don't cite sta A. i don't. Q. You don't ta A. That'scorree Q. Other than if A. That'scorree Q. When you d how do you don't do you do Zimmerman? A. What I do in full cognitive
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1	there to suggest who's a good candidate, who's not,
2	you know; for response.
3	And the potential benefit being significant
4	improvement in their OCD, although I also temper
5	that, as I do with any OCD treatment, that cure is
6	rare with medications or with surgery, and I think
7-	
8	that cure is not common.
9	Q. Even by psychosurgery?
1 0	A. By any modality, a hundred percent improvement is
5 11	unusual.
12	Q. Well, what are you expecting if the surgery is
13	successful?
14	A Well, the literature with OCD on medications
15	considers a responder somebody who has improved 25
16	percent
17	Q. On the YBOCS?
18	A. That's correct. That's a responder.
19	Q. And would you
20	A A significant responder is a 50 percent
21	improvement.
22	Q. Would you
23	A. That's what Italk about as a significant response
24	to any treatment modality with OCD. Surgery as
25	well.
	56
1	Q. You would not give a percentage success rate
2	possible success rate, to the patient of the surgery
3	or would you?
4	A. I would not.
5	Q. Would not. You don't say that based on literature
6	there's a 50 to 100 percent or 0 to 100 percent; you
7	don't cite statistics?
8	A idon't.
9	Q You don't talk about complications?
10	A That'scorrect.
11	Q. Other than it may not work?
12	A That'scorrect.
13	Q. When you determine that cognition is grossly intact,
14	how do you determine that in a patient like Mary Lou
15	Zimmerman?
16	A. What I do in this type of evaluation, I don't do a
17	full cognitive evaluation. What I will do is
18	orientation to determine if a patient is oriented to
19	•
	time, place, person. I test memory to see it a
20	time, place, person. I test memoryto see if a person can recall three objects after ten minutes'
20 21	person can recall three objects after ten minutes'

- ?
- owledge.

DONALD A MALONE, JR., M.D. MARY LOU ZIMMERMAN, et al. vs.

- 1 A. Fund.
- 2 MR. MALONE Fund, F-U-N-D.
- 3 A F-U-N-Dof knowledge, basic facts. I won't ask them

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- 4 in particular, **but** as you go along they will be able
- 5 to provide accurate historical information ${\rm for}$ one
- 6 thing or names of medications or other things that
- -7-----generallywouid present-an-intact-sensorium----
- 8 cognition.
- 9 Q. But in terms of formal evaluation, it would consist
- 10 of orientation to time, place and person and a
- 11 memory test of three objects after ten minutes?
- 12 A. That would be correct. In this case, lasked her to
- 13 perform serial sevens, but she didn't have the
- 14 motivation to calculate that.
- 15 Q. What do you measure in serial sevens?
- 16 A. Basically ability to concentrate and intent. Serial
- 17 sevens is counting back from a hundred bysevens.
- 18 in a person -- that doesn't really test math
- 19 ability, although it certainly does too, but it
- 20 tests a person's ability to focus and concentrate
- 21 for a sufficient period of time to complete the
- 22 test.
- 23 Q. And why did you say she wasn't motivated to perform
- 24 that; what do you mean?
- 25 A. She must not have wanted to, for whatever reason, or

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- 1 just sometimes patients who are sick enough will
- 2 simplysay I'm not going to do that.
- 3 Q. in her case, why she didn't -
- 4 A. No idea.
- 5 Q. Again, so I'm clear, the cognitive test would have
- 6 consisted of orientation to time, person, place,
- 7 three-object memorytest, and a request to do a
- 8 serial seven test, correct?
- 9 A. Uh-huh.
- 10 Q. If you had wanted to do a full cognitive evaluation,
- 11 what would that have consisted off
- 12 A. For that I would have sent them to a
- 13 neuropsychologistto do full testing.
- 14 Q. How many neuropsychologists do you have on staff at
- 15 the Cleveland Clinic?
- 16 A. Three or four. I think we have three in our
- 17 department.
- 18 Q. All of them, Lassume, you have confidence in?
- 19 A. Yes.
- 20 Q. Is there any reasonwhy she could not have been seen
- 21 for neuropsychoiogicaltesting, had that been
- arranged by you or someone else at the Clinic?
- 23 A. I mean, anybody can be seen.
 - 24 Q. Has it ever been the protocol or the guideline when
 - 25 evaluating a patient for psychosurgeryat the Clinic

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- 1 to have neuropsychologicaltesting performed?
- 2 A. Notto my knowledge.
- 3 Q. Help me out with something in your report. i'm
- 4 looking at page one under history of present
- 5 illness. If you go down to the last -- about the
- 6 third iast sentence it reads, "The symptoms have
- 7-- Improved at times over the years, but have always-
- 8 been present, and essentially have worsened over the
- 9 past 30 years." What does that mean?
- 10 A Oftentimes with obsessive-compulsive disorder, as
- 11 with a number of psychiatric conditions, their
- 12 severitywaxes and wanes over time. So it would not
- 13 be unusual for symptoms to improve over their worst,
- stili being sufficiently symptomatic to impair
- 15 functioning and then gradually over time that waxing
- 16 and waning becomes lower and lower on the
- 17 functionality scale,
- 18 Q. Did you do anything to measure her on the
- 19 functionality scale besides the YBOCS test?
- 20 A. No.
- 21 Q. Does the YBOCS test measure functionality?
- 22 A. No, it does not.
- 23 Q. It only measures the severity of the condition?
- 24 A. That's correct. Basicallywith functionality ---
- 25 there's no specific functionality test for people

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- with OCD, but it's her abilityto function in her 1 2 life that's more significant Can she hold a job, 3 is she able to interact with family, is she able to 4 maintain her marital relationship, et cetera, et 5 cetera. Q. Is there any way to test or evaluate functional 6 7 capacity as it relates to OCD? 8 A There's no scale, I'm aware of, that does that. 9 Q. Do you know why she was not able to work? 10 A I don't know in particular, other than she's 11 obviously spending several hours a day on her 12 obsessive-compulsivebehaviors. 13 Q. How do you know that? 14 A She finds herself washing laundry many hours - let 15 me make sure that that's a current one. Well, she's 16 unable to go out of her house and do things. If she 17 goes out she's afraid a car will run over something 18 dirty in the street, the car will then be 19 contaminated, she will then not be able to ride in 20 the car again. 21 So there's these contaminationfears that 22 really permeate her ability to function outside the 23 home, which limits her ability, obviously, to work. 4 Washes laundry many hours a day, can't be touched by
- 5 others.

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THE CLEVELAND CLINIC FOUNDATION

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- Q. Well, let me stop for a minute. Let's try to break 1
- this down, if we can. First of all, you talked 2
- about her being unable to go out of the Rouse. Does 3
- your report say on occasion she'll be able to go out 4
- 5 and do things?
- 6 A Uh-huh.
 - -MR-RUF-You need-to give a verbal-
- а answer
- 9 Q. You need to say yes, if you can.
- 10 A. Yes, she says on occasion she will be able to go
- 11 out.

7

- Q. Are you able to say how often she was able to go out 12
- 13 of the house?
- 14 A. No.
- 15 Q. From-
- 16 A. Not from this.
- Q. And you talked about doing laundry several hours a 17
- 18 day. Do you know if that's a historical factor that
- was a present fact being conveyed to you? 19
- 20 A I'm not entirely clear. It says it progressed, so
- 21 Im assuming that it's at least as bad now as it was
- 22 before, but i don't know that.
- 23 Q. And again, so I'm clear, you don't know why she was
- 24 no longer able to work, in other words how
- 25 specifically her OCD impacted on her job functions?

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- 1 A. Other than the points I mentioned, no.
- Q. Well, you talked about having to wash laundry and 2
- 3 being unable to go out of the house on occasion.
- 4 Anything else?
- 5 A. Well, it says on occasion she is able to go out of 6 the house.
- 7 Q. I assume on occasion she was able to go out of the
- house, according to your evaluation? 8
- 9 A. That's correct.
- 10 Q. In terms of her medications, if you can turn to
- 11 that, please, the second page of your report. The
- 12 time she came to see you, what were her present**
- first of all, what was her obsession? 13
- 14 A. Again, I'm taking all of this from my evaluation.
- 15 Q, I understand.
- 16 A. I mean, her obsession is primarily contamination.
- 17 Q. What is her compulsion?
- 18 A. Well, there are a number of compulsions.
- 19 Q. Outline for me Mary Lou Zimmerman's compulsionswhen
- 20 she came to see you.
- 21 A. According to this document -- compulsions are, just
- 22 so I can be clear, basically responses to an
- 23 obsession. It's a behavior targeted at reducing the
- anxiety brought about by the obsession. 24
- 25 So cleaning house would be a compulsion,

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extensive house cleaning, frequent washing of

- laundry is a compulsive ritual in response to the obsessions. Being unable to touch other people, if you do touch somebody to have to wash compulsively. For example, the inability to shake my hand prior to the appointment is a behavior targeted at avoiding -7 -----the obsessive anxiety.-Difficulty with leaving the ----house because of the potential contamination of a car c herselfis a ritualistic avoidance behavior. Q. Are you done with your answer? A. Uh-huh. Q. Isthatayes? A. Yes. Q. Do you know how much time she spent cleaning her house? A. At this particular point in time, no.
- 17 Q. Do you know at the time she came to see you how much
- -18 time she spent washing her laundry?
- 19 A. No, I can't tell by this evaluation.
- 20 Q. Do you know whether she was completely unable to
- æl touch others or only occasionally unable to touch
- 22 others at the time she came to see you?
- *B* A. No, I can't tell from this evaluation.
- 214 Q. Are you able to say, I think you answered this
- 2Б already, but you're not able to say how often she

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- 1 was able or unable to leave the house?
- 2 A. That's correct.
- 3 Q. She did report to you that she was still engaged in
- sexual relations with her husband, didn't she? 4
- 5 A. I have to find that.
- Q. Did she report that she had some sexual dysfunction 6
- 7 related to the medication she was on, the
- Anafranil? I'm on page а
- A. Right, she wasn't currentlyon that, so that may 9 have been historical as well.
- 11 Q. So you don't know whether she was able to engage in
- 12 sexual relations at the time she came to see you or
- 13 not?
- 14 A. That's correct.
- 15 Q. If we can go down to the medication list, the second
- 16 page of your report. First of all, the Anafranil,
- 17 is that a recognized medication for treating OCD?
- 18 A. Yes.
- 19 Q. It was reported to you that that was ---
- A. She's not on Anafranil though. 2
- 21 Q. I'm sorry.
- 22 A. She's not on Anafranil at the time of this
- 2 evaluation.

2

- 25 Q. Lunderstand. I'm referring to - I don't mean to
 - confuse you. I'm at the top of your report. She

DONALD A MALONE. JR., M.D.

65	67
1 stated the best medication overall was the	1 A. Yes.
2 Anafranil?	2 Q. Specifically when you have all of these drugs
3 A. Yes.	3 combined.
4 Q. And that is recognized as a drug for treatment of	4 A. Yes. For example, Prozac can increase blood levels
5 OCD?	5 with Tegretol.
6 A. That's correct, yes.	6 Q. Well, I'm not sure we're on the same page here. If
7 - Q, -The problem she had was-sexual dysfunction $_{\bullet}$ bladder	-7 you can't recall ever-treating a patient that had
8 incontinence?	8 all this combination, how do you know the effect
9 A Yes.	9 that all of these medications together would have on
10 Q. Are there other medications that can be provided	10 this patient?
11 that would help treat the sexual dysfunction or	11 A. Oh, the exact effect on this patient?
12 incontinence and still allow the patient to take the	12 Q. Exactly. You were saying you know
13 Anafranil to treat the OCD?	13 A I wouldn't = I mean, you can't predict any
14 A. Both of those are very difficult to treat. There	14 Combination a patient – medications will have on
15 are some other medications which can be tried.	15 any particular patient.
16 Q. Such as?	16 Q. Including this patient with this combination?
17 A For the sexual dysfunction, there's some trials with	17 A. Exactly.
18 things like PeriactIn, but they're not often	18 Q. Do you know if she was ever on a drug free trial?
19 successful. The bladder incontinence I'm less	19 A. I don't recall.
20 familiar with. I don't treat that myself. I'll	20 Q. She was able to provide an adequate history for most
21 referthem.	21 things, is that right, looking under your mental
22 Q. Do you know whether there was any attempt to treat	22 status examination?
23 Mary Lou Zimmerman with the Anafranil and other	23 A. Yes, that's what it says.
24 medications that deal with the side effects the	24 Q Do you know which things her husband had to help her
25 Anafranii was causing?	25 out with?
66	68
1 A. I don't know from this evaluation.	1 A. I don't recall.
2 Q. If you go under medications, the first question	2 Q. Are you able to identify all the treatment Mary Lou
3 have for you, have you ever treated any other	3 Zimmerman received before she was evaluated by you
4 patient that's had this specific combination d	4 for her OCD?
5 meds?	5 A. I don't recall.
6 -A Exactly, Including Prinivi Premarin, Ateno b	6 Q. What type of therapy, psychotherapy, is effective,
7 Q. Yes.	7 in your judgment, for the treatment of OCD?
8 A. Which are used for other reasons, obviously.	8 A. Behavior therapy.
9 Q. Yes.	9 Q. What specific type of behavior therapy?
10 A I don't recall if I've treated anybody with this	10 A In particular, exposure therapy is the most
1 exact combination.	11 effective type $\boldsymbol{\sigma}$ behavior therapy.
12 Q. This is an unusual combination of medications for an	12 Q. And for what period of time would you have a patient
13 OCD patient?	13 undergo exposure therapy and at what frequency
14 A. No, not actually for the patients that I'm sent.	14 before you would determine that that patient was
15 For them to be on several different classes of	15 nonresponsive to that type of the rany?

- 16 psychotropic medications is not unusual.

- 19 A. Certainly I know there are some interactions we're
- 20
- these drugs? 23
 - 24 A. Interactions with each other?
 - 25 Q. Correct.

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- 15 nem to be on several different cla
- 17 Q. Do you know the interactions that all of these drugs
- 18 would have on Mary Lou Zimmerman?
- wary of when using these combinations, but they're 21 commonly used.
- 22 Q. Are you aware though of the interactions of all of
- - - 5

- isiveto that type of therapy?
- 16 A. There's no absolute time limit.
- 17 Q. In your judgment.
- 18 A It depends on the ability of the patient to do the
- 19 behavioral techniques. For some the anxiety
- 20 generated is far too great for them to be able to
- 21 proceed with the therapy. For those individuals it
- 22 might be shorter than somebody who's actually able
- 23 to follow through with the techniques effectively
- Ļ and you can advance their techniques. For them it
- may be as much as six months, for others it may be

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	69	71		
1	much shorter than that if they're unable to tolerate	1 Zimmerman since this evaluation?		
, 2	it.	2 A. Not to my recollection.		
) 3	Q. When it is an effective let me back up. You're	3 Q. When did you first learn that there was a problem or		
4	saying it can be determined, sometimes it takes six	4 a complication with Mary Lou Zimmerman?		
5	months, other times it takes less than that to	5 A. When they called me and told me I needed to schedule		
6	determine if exposure therapy will be successful?	6 a deposition.		
7-	-A. That's correct	7 Q. Is there anything let me just have a minute, if		
8	Q. When it is working how long does it take a patient	8 you would, please. We're just about done.		
9	to undergo exposure therapy to obtain therapeutic	9 • • • •		
10	results?	10 (Thereupon, a discussion was had off		
11	A Different patients respond in different intervals,	11 the record.)		
12	and it may be six months for one patient and a year			
13	for another patient.	13 Q. You list the medications that she was currently		
14		taking. Do you know how long she had been on those		
15	exposure therapy?	15 medications? 16 A, Not by this evaluation.		
16	A. I don't know from this evaluation. Well, let me.			
17	read the past history one more time just to make	17 Q. Do you know whether there had been any changes in		
18	sure. She had extensive cognitive behavioral therapy, which is a term - which is the type of	18 the dosages? 19 A. Not by this evaluation.		
19 20	therapy of which exposure therapy is one variant.	20 Q. And aside from the Anafranil, do you know of any		
20	Q. But cognitive behavior therapy is broader than	21 other medications that she had tried for the OCD,		
22	exposure therapy?	other than what was listed in her current		
23	A. It's somewhat broader, yeah. With regard to OCD, it	23 medications?		
24	most often refers to exposure therapy.	24 A. Not by this evaluation.		
25	Q. But you don't know	25 MR. LINTON: Give us just a few		
	70	72		
1	A. But the sentence that states, "Apparently the	1 minutes. We're just about done.		
2	cognitive behavioral therapy has been frustrating to	2		
3	both she and the therapist because of her inability	3 (Thereupon, a discussion was had off		
4	to confront her fears." Having her confront her	4 the record.]		
5	fears is exposure therapy, so I would assume she	5		
6	would have exposure therapy.	6 Q. Earlier you outlined a list of is it the SIRs?		
7	Q. Did you know? You're assuming that, but you don't			
8		7 A. SSRIs, selective serotonin reuptake inhibitors.		
9	know if she had exposure therapy as part of her			
	know if she had exposure therapy as part of her cognitive behavior therapy?	7 A. SSRIs, selective serotonin reuptake inhibitors.		
10		7 A. SSR!s, selective serotonin reuptake inhibitors.8 Q. The SSIRs?		
10 11	cognitive behavior therapy?	 7 A. SSRIs, selective serotonin reuptake inhibitors. 8 Q. The SSIRs? 9 MR. MALONE R-I. 		
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DONALD A MALONE, JR., M.D

THE CLEVELAND CLINIC FOUNDATION

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′3	Q. For example, one might respond to Prozac, one might
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5	A. That's correct.
6 7	Q. And if they don't, you move them to the next one on
8	A That's correct.
9	Q. And you keep going back and forth and basically
10	experimenting until you find the right mix that
11	either treats or doesn't treat the OCD?
12	A. Yes.
13	Q. Are you aware of, aside from the information under
14	your current medication list, whether Mary Lou
15	Zimmerman underwent trial therapies of any ${f d}{f f}$ these
16	drugs?_
17	A. I don't recall.
18	Q. And If she did for what period of time?
19	A. That's correct, I don't recall.
20	Q. This is going to be my last chance to talk to you
21	before this case goes to trial. I want to make sure
22	I have a full understanding of your account of your
23	involvement with Mary Lou Zimmerman. Is there
24	anythingelse significant in your mind that we
25	haven't covered concerning your evaluation and
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1	recommendations for Mary Lou Zimmerman?
2	A. Notthat I'm aware of.
3	Q. Okay. Thank you very much, Dr. Malone.
4	MR. MALONE: Now, she's going to do a
5	transcript of your deposition, Doctor, and if
6	you just give her the address that you would
7	like her to mail it to, whether it be here at
8	The Cleveland Clinic Foundation or home, she'll
9	send it to you.
10	THE WITNESS: Here at the Cleveland
11	Clinic, 9500 Euclid Avenue, Desk P, as in Paul,
12	57, Cleveland, 44195.
13	
14	DONALD A. MALONE, JR., M.D.
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2	CERTIFICATE	
3	The State of Obio) SS:	
4	The State of Ohio) SS: County of Cuyahdga.)	
5		
6	I, Laura L. Ware, a Notary Public within and for the State of Ohio, do hereby certify that the within named witness, DONALD A. MALONE, JR., M:D., was by me first duly sworn to testify the truth, the whole truth, and nothing but the truth in the cause whole truth, and nothing but the truth in the cause	
-7	within named witness, DONALD A. MALONE, JR., M.D., was by me first duly sworn to testify the truth, the	
а	whole truth, and nothing but the truth in the cause aforesaid; that the testimony then given was reduced	
9	by me to stenotypy in the presence of said witness, subsequently transcribed into typewriting under my	
10	by me to stenotypy in the presence of said witness, subsequently transcribed into typewriting under my direction, and that the foregoing is a true and correct transcript of the testimony so given as	
11	aforesaid.	
12	was taken at the time and place as specified in the	
13 14	I do further certify that this deposition was taken at the time and place as specified in the foregoing caption , and that I am not a relative counsel or attorney of either arty or otherwide interested in the outcome of phis action.	
15	IN WITNESS WHEREOF, I have bereunto set my	
16	hand and affixed my seal of office at Cleveland, Ohio, this 30th day of August, 2000.	
17	4 And	
12	(naunal X. Marie	
19	Laura L. Ware, Ware Reporting Service 21860 Crossbeam Lane, Rocky River, Ohio 44116 My commission expires May 17, 2003.	
20	My commission expires May 17, 2003.	
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CURRICULUM VITAE

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Staff Psychiatrist TITLE: Section Head, Adult Primary Services Director, Sub-specialty Programs for Mood and Anxiety Disorders Cleveland Clinic Foundation Assistant Professor, Department of Psychiatry Ohio State University 446 Medway Road <u>HOME ADDRESS:</u> Highland Heights, Ohio 44143 216/442-0407 Cleveland Clinic Foundation BUSINESS ADDRESS: Department of Psychiatry 9500 Euclid Avenue - Desk P57 Cleveland, Ohio 44195 216/444-5817 216/444-9054 (fax) E-mail: maloned@ccf.org Married - Jennine A. Malone MARITAL STATUS: Three children 300-62-4443 SOCIAL SECURITY NUMBER: **EDUCATION:** B.S. 1981 Youngstown State University Summa Cum Laude M.D. 1985 Northeastern Ohio Universities College of Medicine Alpha Omega Alpha 1995 Graduate Cleveland Clinic Foundation Executive Program in Practice Management CLINICAL TRAINING & EXPERIENCE: PGY- I Internal Medicine 1985-1986 Youngstown Hospital Association

Youngstown, Ohio

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	1	
. -	1986- 1988	Resident in Psychiatry Massachusetts General Hospital Boston, Massachusetts
	1988 - 1989	Chief Resident - Acute Psychiatry Service Massachusetts General Hospital
		Boston, Massachusetts
	CLINICAL & HOSPITAL SE	RVICE RESPONSIBILITIES:
	1987- 1989	Associate Clinical Staff PembrokeHospital Pembroke, Massachusetts
	1988 - 1989	Affiliated Staff Habit Management Institute Boston, Massachusetts
	1989 - 1991	Associate Staff Cteveland Clinic Foundation Departmentof Psychiatry Cleveland, Ohio
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	1990 - Present	Director, ECT Services Department of Psychiatry Cleveland Clinic Foundation
	1990 - 1997	Associate Director Residency Training Program Department of Psychiatry Cleveland Clinic Foundation
	1991 - July, 1998	Head, Grand Rounds Committee Department of Psychiatry Cleveland Clinic Foundation
	1993 - Present	Director, Sub-special9Programs for Mood and Anxiety Disorders Department of Psychiatry Cleveland Clinic Foundation
	1995 - 1997	Head, Research Committee Department of Psychiatry Cleveland Clinic Foundation

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	1990- Present	Member, Research Committee Department of Psychiatry Cleveland Clinic Foundation
	1996 - Present	Section Head, Primary Adult Services Department-of-Psychiatry
		Cleveland Clinic Foundation
	4998 - Present	ConsultingStaff, Heather Hili Hospital Chardon, Ohio
	<u>ACADEMIC APPOINTMENTS:</u>	
	1986- 1989	Clinical Fellow in Psychiatry Harvard Medical School
	1993- Present	Assistant Professor, Department of Psychiatry Ohio State University
	OFFICER AND COMMITTEE ASSIG	<u>NMENTS</u> :
١	1986- 1989	Residents' Association Committee Massachusetts General Hospital
)	1988- 1989	Residency Training Committee Massachusetts General Hospital
	1989- 1977	Quality Assurance Committee Department of Psychiatry Cleveland Clinic Foundation
	1989- Present	Head, ECT Subcommittee Department of Psychiatry Cleveland Clinic Foundation
	1995- 1997	Head, Research Committee Department of Psychiatry Cleveland Clinic Foundation
	1990-1 99 1	Co-Chairman Scientific Program Committee Ohio P s ychiatric Association
	1990 - 1991	Co-ChairmanProgram Committee ClevelandPsychiatric Society
·	1991- 1992	Chairman Liaison Committee Cleveland Psychiatric Society

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\sim	1991 - 1992	Treasurer, Cleveland Consultation Liaison Society
	1992 - 1993	President: Cleveland Consultation Liaison Society
	1991 - 1994	Co-Chairman Program Committee Ohio-Psychiatric-Association
,	1994 ⁻ Present	Member, Program Committee Ohio Psychiatric Association
	1991 - Present	Training Council Association <i>for</i> Convulsive Therapy
1, 11 - 1111 Mary provide and a second state of the state	1993 - Present	Sub-committee on Joint Co-sponsorship of CME American-Psychiatric Association
	1993	American Psychiatric Association, Physician Representative National PublicEducation Campaign on Clinical Depression
	1994- Present	Long-range Planning Committee Ohio Psychiatric Association
\frown	1994- 1996	Clinical Roles Committee Cleveland Clinic Foundation
	1994- 1997	Marketing Committee Cleveland Clinic Foundation
	7995- 1998	Head, Grand Rounds Committee Cleveland Clinic Foundation
	1997 - Presen t	Membership Committee Ohio Psychiatric Association
	1998- Present	Chairman, Membership Committee, OPA
	1997- Present	Laughlin Fellowship Selection Committee American College of Psychiatrists
	1994- 1998	Institutional Review Board Cleveland Clinic Foundation
	1998 - Present	Formulary Sub-committee Cleveland Clinic Foundation
	1999- Present	Member, Task Force on EC? Certification Association for Convulsive Therapy
	1999 ⁻ Present	Education and Research Foundation Ohio Psychiatric Association

O THER PROFESSIONAL RESPONSIBILITIES:

Examiner: American Board of Psychiatry and Neurology Editorial Board: Cleveland Clinic Neuroscience Pathways Reviewer Psychosomatics, The International Journal of Psychiatry in Medicine Men's Health Advisor Editorial Board, Cleveland-Clinic Foundation----

Member, Medical Advisory Board, NAMI Metro Cleveland

PROFESSIONAL ORGANIZATIONS:

- 1980 Phi Kappa Phi Honor Society
- 1985 American PsychiatricAssociation
- 1985
- Alpha Omega Alpha American Association for the Advancement of Science 1988
- 1989 Academy of PsychosomaticMedicine, Fellow
- Ohio Psychiatric Association 1989
- 1989 Cleveland Consultation-Liaison Society
- ClevelandPsychiatric Society 1990
- American Association of Directors of Psychiatric 1990 Residency Training
- Association for Convulsive Therapy 1990
- Society for Neuroscience 1992
- International Society for Sport Psychiatry 1995
- Member, The American College of Psychiatrists 1996

HONORS:

- 1980 Phi Kappa Phi Honor Society
- 1985 Alpha Omega Alpha
- Laughlin Fellowship, American College of Psychiatrists 1988
- 1993 Fellow, Academy of Psychosomatic Medicine
- President's Award, Ohio Psychiatric Association 1994
- Member, The American College of Psychiatrists 1996
- 1996 President's Award, Ohio Psychiatric Association
- 1998 Fellow, American Psychiatric Association

RE & CERTIFICATION: CENS

7989 Ohio Medica! License Registration No. 58237 (active)

1991 ABPN Board Certification in Psychiatry Certificate No. 34254

1996 ABPN Added Qualifications in Geriatric Psychiatry

TEACHING EXPERIENCE:

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1982 - 1983

Chemistry Teacher Upward Bound Program Western Reserve Academy Hudson, Ohio

Medical Student Su	pervision &	Teaching

	1987- 1989	Lecturer Harvard Medica l School Core Seminar Series Massachusetts General Hospital
	1988- 1989	Acute Psychiatry Service Massachusetts General Hospital
\bigcirc	1992 - Present	Lecturer Ohio State Medical School Core Seminar Series Cleveland Clinic Foundation
	1992 - Present	Supervisor Ohio State Medical School Core Clerkshipin Psychiatry Cleveland Clinic Foundation
	Psychiatry Resident Supervision &	Teaching
	1988- 1989	<i>Acute</i> Psychiatry Service Massachusetts General Hospital
	1988	Lecturer, Resident Orientation Massachusetts General Hospital
	1989 - Present	Psychotherapy Supervisor Cleveland Clinic Foundation
	1989 - Present	Lecturer, Resident Didactic Seminars Cleveland Clinic Foundation
	1990 - Present	ClerkshipDirector, Electroconvulsive Therapy Elective Cleveland Clinic Foundation

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) 19	90-1997	Associate Director Psychiatry Residency Training Program Cleveland Clinic Foundation	
<u>GR</u> /	ANT SUPPORT:		
199	90	"PsychiatricDisorders in Weightlifters Using Anabolic Steroids" Cleveland Clinic Foundation Research Grant#3206 Co-PI with Robert J. Dimeff, M.D. Grant award - \$20,300.	-
199	92	"Anabolic Steroids: A New Issue in Prevention Research" National Institute on Drug Abuse (R01-DA07793) Consultant to Paul J. Goldstein, Ph.D. Grant award - \$1,800,000.	
199	14	"A Clinical Evaluation of Risperdal in the Treatment of Schizophrenia" Janssen Research Foundation Protocol#RIS-USA-54 Co-investigator	
. •			

PUBLICATIONS:

Original Publications

- 7. Giannini AJ, Nageotte C, Loiselle RH, Malone DA, Price WA: Comparison of chlorpromazine, haloperidol, and pimozide in the treatment of phencyclidine psychosis: DA-2 receptor specificity. Clin Toxicology 1985;22(6):573-9.
- 2. Malone DA, Wagner RA, Myers JP, Watanakunakorn C: Enterococcal bacteremia in two large community teaching hospitals. Am J of Med 1986;8I:601-6.
- 3. GianniniAJ, Malone DA, Piotrowski TA: The serotoninirritation syndrome A new clinical entity? J Clin Psychiatry 1986; 47(1):22-25.
- 4. GianniniAJ, Malone DA, Loiselle RH, Price WA: Treatment of depression in chronic: cocaine and phencyclidine abusers. J Clin Pharmacol 1986; 26:211-4.
- 5. Malone DA, WagnerRA, Myers JP, Watanakunakorn C: Role of appropriate antimicrobial therapy in the outcome of enterococcal bacteremia. Am J Med 1987; 82:1283-4.
- 6. Giannini AJ, Malone DA, Loiselle RH, Price WA: Blunting of TSH response to TRH in chronic cocaine and phencyclidine abusers. J Clin Psychiatry 1987;48(1):25-26.
- 7. Malone DA, Stern TA: Successful treatment of acquired tourettism and major depression. J Geriatr Psychiatry Neurol 1988: I: **169-1** 70.

- 8. Deckert DW, Malone DA: Severe obsessive compulsive disorder. J Clin Psychiatry 1990; 51(6):259.
- 9. Malone DA: Tone discrimination secondary to amitriptyline. J Clin Psychopharmacol 1991; 11(3):221-222.
- **10.** Malone DA, Camara EG, Krug JH: Ophthalmologic effects of psychotropic medications. Psychosomatics **1992; 33 (3): 271-277.**
- 11. Malone DA, Dimeff RJ: The use of fluoxetine in depression associated with anabolic steroid withdrawal: A case series. J Clin Psychiatry 1992; 53 (4): 130-132.
- 12. Malone DA, Dimeff RJ, Lombardo JA, Sample RHB: Psychiatric-effects and psychoactive substance use in anabolic androgenic steroid users. Clin J Sport Med, 1995; 5 (1): 25-31
- **13,** Muzina DJ, Malone DA: New antidepressants: More options for tailoring treatment. Cleveland Clin J Med, 1996; **63 (7): 406-412**.
- 14. Block M, Gelenberg AJ, Malone DA: Rational use of the newer antidepressants. Patient Care 1997; 31 (6): 49-77.
- 15. Muzina DJ, Malone DA: Panic disorder in primary care: Cause of unexplained symptoms. Cleve Clin J Med **1997; 64** (8): **437-443.**
- 16. Malone DA: Anxiety and depression. Patient Care, **1999**; **33** (13): **8-10**.
- 17. Gajwani P, Malone DA: Fatigue and ahhedonia: Patient care; 33 (20): 174-175

Book Chapters and Other Publications

- 1. Malone DA: The psychiatric effects of medications, in Clinical Preventive Medicine, Matzen RN, Laiig R (eds), St. Louis, 1993, Mosby-Year Book, Inc.
 - 2. Malone DA, Sorboro JM: The pharmacology of anabolic androgenic steroids, in Principles of Addiction Medicine, Miller **NS**, Doot MC (eds), Chevy Chase, MD, **1994**, American Society of Addiction Medicine, Inc.
 - **3.** Malone DA: Pharmacological therapies of anabolic-androgenic steroid addiction, in Pharmacological Therapies for Drug and Alcohol Addictions, Miller NS, Gold **MS** (eds), New York, 1995, Marcel Dekker, Inc.
 - **4.** *Malone* DA (special *issue* medical editor): Anxiety and depression handbook. Patient Care; 33 (IS), August 15, 1999.

Book Reviews

1. Stoudemire A., Fogel BS (eds). Principles of Medical Psychiatry. Grune and Stratton, Inc. 1907. Reviewed by Malone, DA. Psychosomatics 1988, 29(4):449-450.

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1.	Malone DA, Wagner RA, Myers JP, Watanakunacorn C: "Enterococcal Bacteremia in Two Large Community Teaching Hospitals" American College of Physicians Annual Meeting Columbus, Ohio
ann an Ann Ann ann an Ann a	September, 1985
2	Malone DA, Dimeff RJ: "The Use of Fluoxetine in Depression Associated With Anabolic Steroid Withdrawal" Annual Meeting of the Academy of Psychosomatic Medicine Phoenix, Arizona November, 1990
_3.	Malone DA, Camara EG, Krug JH: "The Ophthalmologic Effects of Psychotropic Medications" Annual Meeting of the Academy of Psychosomatic Medicine Phoenix, Arizona November, 1990
4.	Malone DA: "The T reatment of Anabolic SteroidWithdrawal Depression" Annual Meeting of the ClevelandConsultation-Liaison Society Cleveland, Ohio April, 1991
5.	Malone DA, Dimeff RJ, Lombardo J: "The Psychiatric Effects of Anabolic Steroids" Annual Meeting of the American Psychiatric Association New Orleans, Louisiana May, 1991
6.	Varley JD, Malone DA, Goodkin DE, Fischer J: "The Incidence of Psychiatric Disorders in Patients with Multiple Sclerosis" -Annual Meeting of the American Psychosomatic Society New York, New York April, 1992
7.	Malone DA, Dimeff RJ: "Anabolic Steroids: Dosage and Psychiatric Effects" Annual Meeting of the American Psychiatric Association Washington, DC May, 1992
8.	Varley JD, Malone DA, Goodkin DE, Fischer J: "Comparison of SCID-Derived Psychiatric Diagnoses and Cranial MRI Data in Patients with Chronic Progressive Multiple Sclerosis" Annual Meeting of the Cleveland Consultation-Liaison Society Cleveland, Ohio April, 1993

)
- Malone DA, Dimeff RJ: "Psychiatric Symptomatology Associated with Anabolic Steroid Use" First International Congress on Hormones, Brain, and Neuropsychopharmacology Rhodes, Greece September, 1993
- Goodkin DE, Varley JD; Malone DA, et al: "Cranial MRI Lesion Area in Chronic Progressive Multiple Sclerosis(CPMS) Patients are Unrelated to Structured Clinical Interview for DSM-IIIR (SCID) Derived Diagnoses" Annual Meeting of the American Neurological Association Boston, Massachusetts October, 1993
- 11. Adan F, Ivan TM, Malone DA: "Mood States, Perceived Stressors and Residency Training: A Comparison Study of Different Resident Groups" Annual Meeting of the American PsychiatricAssociation Philadelphia, Pennsylvania May, 1994
- **12.** Malone DA, Berliner S, Bloomfield E, et al: "The Effect of Hypnotic Agents on ECTinduced Seizure Duration," Neuropsychopharmacolgy, **1994;**10 (3S): **132S**
- *E3.* Malone DA, Pomelo LJ, Gash JM, et al: "Psychiatricsymptoms for breast implant and chronic fatigue patients," 10th Annual Meeting of the World Congress of Psychiatry, Madrid, Spain, August, 1996
- 14. Baracskay DJ, Malone DA, Paganini EP: "The use **d** psychotropics in hemodialysis," Annual Meeting of the Academy **of** Psychosomatic Medicine, San Antonio, Texas, November, 1996

ENTATIONS:

Selected Presentations:

"Cocaine: The Problem **of** Abuse and its Treatment" Psychosomatics Conference Massachusetts General Hospital Boston, Massachusetts October, **1987**

"AcquiredTourettism" Psychosomatics Conference Massachusetts General Hospital Boston, Massachusetts November, **1987**

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"The Effects of Psychotropics on the Eye and Ear" Psychosomatics Conference Massachusetts General Hospital Boston, Massachusetts November, **1987**

"Psychiatric Trauma" Beverly Hospital Trauma Day Beverly Hospital Beverly, Massachusetts November, 1988

"The Psychiatric Aspects of Anabolic Steroid Use" Department of Psychiatry Grand Rounds Cleveland Clinic Foundation Cleveland, Ohio May, 1990

"The Recognition and Treatment of Depression in the Medically III." Visiting Professor Department of Internal Medicine Grand Rounds Akron City Hospital Akron, Ohio November, 1990

"The Use of Antidepressants in the Medically III Patient" Visiting Professor Department of Psychiatry Grand Rounds Timken Mercy Medical Center Canton, Ohio December, **1990**

"Psychiatric Effects of Anabolic Steroid ^{Use} Department of Psychiatry Grand Rounds Metro Health Medical Center Cleveland, Ohio February, **1991**

"Psychiatric Effects of Anabolic Steroids in Weightlifters" Annual Medical Scientific Conference of the American Society of Addiction Medicine Boston, Massachusetts April, **1991**

"Psychiatric Aspects of Anabolic Steroid Use" Spring Meeting of the Ohio Psychiatric Association Houston Wood State Park, Ohio April, 1991

"PsychiatricAspects of Anabolic Steroid Abuse: Dependence and Demographics" American Society for Pharmacology and Experimental Therapeutics

National Press Club, Washington D.C. June, 1991

Donald A. Malone, Jr., M.D. Page 12

"Electroconvulsive Therapy in the **1990's**" Medical Division Grand Rounds St. Vincent Health Center Erie, Pennsylvania March: <u>1992</u>

"Group Therapy in Patients With Borderline Personality Disorder" Department of Psychiatry Grand Rounds Cleveland Clinic Foundation Cleveland, Ohio April, **1992**

"Panic Disorder and Other Related Diagnoses" Ohio Permanente Medical Group, Inc. Cleveland, Ohio July, 1992

"Medical Topics Relevant to Psychiatry" Laurelwood Hospital Willoughby, Ohio November, **1992**

"The Psychiatric Effects of Anabolic Steroids" Visiting Professor, Department of Psychiatry Grand Rounds West Virginia School of Medicine Morgantown, West Virginia April, 1993

"The Psychological Effects of Anabolic Steroids" Third InternationalCongress of TherapeuticDrug Monitoring and Clinical Toxicology Philadelphia, Pennsylvania May, 1993

"Panic and Depression in the Elderly" The Cutting Edge: Depression and Panic Disorder Cleveland, Ohio September, 1993

"Training and Accreditation in ECT" Annual Meeting **of** the AADPRT New Orleans, Louisiana January, **1994**

"The **maining** and Credentialing _{of} Residents in ECT" Annual Meeting of the Association for Academic Psychiatry Tucson, Arizona March, **1994**

Donald A. Malone, Jr., M.D. Page 13

"Treatment of Depression - Indications and Outcomes, Short- and Long-term - Where Am We?" Pittsburgh Psychiatric Society Pittsburgh, Pennsylvania September, 1994 "New Developments in-the Treatment of Depression" Clinton Valley Center Psychiatric Hospital Bloomfield Hills, Michigan September, 1994 "The Treatment of Depression in the Medically III" St. Alphonsus Regional Medical Center Grand Rounds Boise, Idaho February, 1995 "An Update on OCD" Rockford Memorial Hospitals Annual Psychiatric Update Day Rockford, Illinois March, 1995 "The Anxious Afhlete" 2nd Annual Ohio Sports Medicine Conference Cleveland Clinic Foundation Cleveland. Ohio May, 1995 "PsychopharmacologyUpdate on Anxiety Disorders" Anxiety and Somatiform Disorders in Children and Adults **Cleveland Clinic Foundation** Cleveland, Ohio September, 1995 "Psychotropic Drug Use in-the Medically III" 5th District Academy of Osteopathic Physicians Meeting Sandusky, Ohio October, 1995 "An Update on the Treatment of OCD" Milwaukee V.A. Hospital Grand Rounds Milwaukee, Wisconsin December, 1995 "Training in ECT" Annual Meeting of the American Association of Psychiatric Residency Training Directors San Francisco, California January, 1996 "Anabolic SteroidUse in Adolescents" Annual Meeting of the American Osteopathic Association Las Vegas, Nevada October, 1990

"The ECT Workup" Workshop Director and Presenter Annual Meeting of the American Academy of Psychosomatic Medicine San Antonio, Texas November, 1996

"OCD and the Spectrum Disorders" Texas School of Osteopathic Medicine Grand Rounds Fort Worth, Texas December, **1996**

"Diagnostic and Treatment Options for Anxiety Disorders" Kalamazoo Psychiatric Institute Grand Rounds Kalamazoo, Michigan

June, 1997

"An Update on Atypical Neuroleptics" Columbia Mercy Medical Center Conference on Clinical Issues in Schizophrenia Canton, Ohio November, 1997

"The Spectrum of Obsessive-compulsive Disorders" International Latino PsychiatricAssociation Meeting Chicago, Illinois May, **1998**

"An Update on Panic Disorder" The Menninger Clinic Course on New Developments in the Treatment of Anxiety Disorders St. Louis, Missouri June, **1998**

"An Update on Social Anxiety Disorder" Wright State University College of Medicine Grand Rounds Dayton, Ohio February, **1999**

"AnOverview of Obsessive-compulsive Disorder." Obsessive-compulsive Disorder Conference, sponsored by NAMI Cleveland, Ohio May, 1999

"The Treatment of Depression in Primary Care" Alpena Hospital Internal Medicine Grand Rounds Alpena, Michigan June, 1999

"The Diagnosis and Treatment of Social Phobia" St. Joseph Hospital Grand Rounds youngstown, Ohio June, 1999 "An Overview of Social Phobia" Forum Hospitals 5th Annual Behavioral Medicine Conference Youngstown, Ohio September, 1999

The Treatment of Mood Disorders"_____ Meeting & the Northeast Ohio Academy & Pharmacists Cleveland, Ohio October, 1999

"The Diagnosis and Treatment of Panic Disorder" Fairview Hospital Family Medicine Grand Rounds Fairview, Ohio October, 1999

"Obsessive-compulsive Disorder in the Workplace" Northern Ohio Chapter **d** the International Employee Assistance Professionals Association Cleveland, Ohio November, 1999

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PSYCHIATRIC EVALUATION



MARY ZIMMERMAN #2744-838-0 August 31,1998

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IDENTIFYING DATA: Mary Zimmerman is a 58 year old married white female from Kansas, who is self-referred for evaluation for possible cingulatory. Information was taken from extensive records from her psychiatrist; the Menninger Institute, as well-as-the history of her husband.

CHIEF COMPLAINT: "I just can't get over this."

HISTORY OF PRESENT ILLNESS: This is one of many formal psychiatric evaluations for this 58 year old married white female who has had a history of obsessive-compulsive symptom5 since around the age of 28. This was during her pregnancy with her third child. She states it began on an occasion where she cut her leg shaving, and then began to feel "dirty," She began to then clean her legs excessively, and this spread to other areas of ther body. She was always a clean and neat person prior to that, but never excessively so. Symptoms then worsened after the delivery of her child. This was very problematic in that she bad great difficulty in changing diapers, and would never be able to return to anyplace in the home when? the baby had thrown up or a diaper had been changed. She began to clean the house extensively, and would findherself washing laundry many hours a day. Eventually it progressed to the point where she could not be touched by others, and in fact, could not shake my hand prior to this appointment. The symptoms have improved at times over the years, but have always been present, and essentially have. Worsened over the past 30 years. They are at the point now where she is no longer able to work. She has been on disability for the past three years. This has been very upsetting to her.

She does feel depressed much of the time, though the depression itself is not severe. She has difficulty concentrating, and her motivation is significantly impaired. There is a significant decrease in her energy level versus what it should be. She denies ever having any hallucinations, paranoia, or manic symptoms. OR occasion she will be able to go aut of the house and do things; however, it is quite difficult for her, For example, 'if the car would run over something dirty in the street, the car would then be contaminated, and she would require a great deal of time beforeriding in it again. She denies any other symptoms of OCD, including checking behaviors, fear of harm to others, or other compulsive behaviors.

PAST PSYCHIATRIC HISTORY: She has an extensive psychiatric history over the past 30 yeas. She has been seeing Dr. Donelly in Kansas for the past 10 years. During that period she has also been to the Menninger Institute for several inpatient hospitalizations. She has been hospitalized many 'rimes over the years. Her first hospitalization Was for a several-month period after the birth of her third child. She has been on multiple medication regimens which are well documented in her old records. There are essentially no medications which may be effective fur OCD, or combinations of medications which have not been tried. In addition to the medications she has had extensive cognitive behavioral, as well as supportive psychotherapy over the years. Apparently the cognitive behavioral therapy has been very frustrating to both she and the therapist

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because of her inability to confront her fears. She states that the best medication overall was Anafranil. though it provided rather limited benefit. She also had sexual dysfunction and some bladder incontinence with the Anafranil which limited its use.

She denies drinking alcohol or using illicit drugs, She does not smoke tobacco. She uses caffeine only moderately.

PAST MEDICAL HISTORY: This is significant for hypertension, hypercholesterolemia, a tubal ligation, and a diagnosis of grand mal epilepsy, Apparently she has had two seizures over the years, and currently is on Tegretol for this.

MEDICATIONS: Klonopin, 0.5 mg. p.o. q. day Neurontin, 300 mg. p.o. q.i.d.; Prozac, 80 mg. p.o. q. day; Atenolol, 100 mg. p.o. q. day; Zyprexa, 5 mg. p.o. q.h.s.; Tegretol, 200 mg. p.o. t.i.d; Prinivil, 40 mg. p.o. q. day; and Premarin, 0.625 mg. p.o. q. day

ALLERGIES! No known drug allergies

FAMILY PSYCHIATRIC HISTORY: This is significant for depression in both her father and sister. She also has a brother who suffered from alcoholism.

SOCIAL HISTORY: The patient has been married fur the past 40 years to her first and only husband, Togetherthey have three children. She has a daughter who still lives in town, and two other children who live out of town.

She is the youngest of four siblings. She had one sister who died,

The patient worked up until approximately three years ago, She was an accountant end apparently was very proud of the work that she was able to do. Her obsessive-compulsive symptoms began to interfere substantially with her work over the years, and according to her husband "they kept her an much longer then they really should have." She became most tearful when she was discussing her need to be on disability.

MENTAL STATUS EXAMINATION: The patient is a pleasant white female who was casually dressed and groomed. She was able to provide an adequate history for most things; though-did count on her husband to help out on occasion. Her affect throughout much of the interview appeared sad, and she was tearful at various times. Her speech was of a normal rate and tone. Her mood was described as "dawn and frustrated." Cognition was grossly intact. She was oriented to person, place, and time. She was able to recall three objects immediately, but only ane out of three after five minutes time. She did not have the motivation to calculate serial 7's or to perform spelling tasks. There was no current evidence of any delusions, hallucinations, or paranola. She denied all suicidal or homicidal ideation, although she has had some suicidal ideation in the past. Her insight and judge-ment overall were fait.

. IMPRESSION: This is a 58 year old married white female with a long history of obsessivecompulsive disorder which is severe. She was administered a YBOCS, and scored 38 out of 40. She has been treated with essentially all known therapeutic interventions for obsessivecompulsive disorder with regard to psychotherapy and medication management. Her records from the Menninger Institute, as well as her current psychiatrist, are extensive and inclusive. It is my opinion that it is unlikely to be any combination of medications or single medication that would be effective forher that hasn't already been tied. It is the opinion of her psychiatrist, and i would

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concur, that cingulotomy is a reasonable option for the treatment of her severe treatment-resistant obsessive-compulsive disorder.

i discussed the potential risks and benefits from a psychiatric perspective of a cingulotomy with both her and her husband. They are scheduled to meet with Dr. Barnett later today and discuss the potential surgical risks. They will then decide on whether to proceed with the cingulotomy procedure.

DIAGNOŚES:

60	:V sixA
Mild family stressors	:VI sixA
	:III aixA
	:ll sixA
Obsessive-compulsive disorder, severe	:l sixA

TREATMENT PLAN: As noted, the patient will return to her psychiatrist in Kansas. She will see Dr. Barnett here to discuss the risks and potential benefits of cingulotomy. If she and her husband decide on cingulotomy, they will re-contact us and come back to Cleveland for the procedure.

Donaid A. Maione, Jr., M.D.

Olfactory bulb Optic n. (II)

Eyeball

in

Olfactory tract (I)

Optic chiasma Lateral olfactory stria Trigeminal n. (V): Ophthalmic n. (V1) Maxillary n. (V2) Mandibular n. (V3)

Trageminal ganglion

- Pons Hypoglossal n. Vagus n. (X) Accessory n. (XI)

Antenor serebral a.

cerebellar a.

Mammilary body Olfactory tract Amygdala

Ventral root of 1st spinal n. Spinal cord



Lobes of the Brain Cerebrum

Frontal lobe Temporal lobe Parietal lobe Occipital lobe 治療法院

Limbic System

Key



Corpus collosum Body of formix Stiria medullaris thalami

Cingulate gyrus

Serebellum

Stria terminalis

Ventricles of the Brain

(lateral view)

A) Lateral ventricle: 1-Anterior horn 2-Posterior horn 25-interlouraorn Latenvenbacular Ionamen:

(anro)

Key

C): Third ventricle D) Cerebral aqueduc E) Tourth ventricle

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Treatment of Psychiatric Illness by Stereotactic Cingulotomy

H. Thomas Ballantine, Jr., Anthony J. Bouckoms, Elizabeth K. Thomas, and Ida E. Giriunas

> The treatment of 198 psychiatrically disabled patients with stereotactic cingulotomy was evaluated prospectively for a meanfollow-up \mathbf{cf} 8.6 years. Patients with major affective disorders and anxiety disorders fared the best, with a return to normal functioning in the majority. Patients with obsessive-compulsive disorders, schizophrenia, and personality disorders improved less predictably, with an uneven improvement in functioning that required active ongoing psychiatric treatment. Low mortality and morbidity, a reduction \mathbf{cf} violent behavior, a possible reduction \mathbf{cf} suicidal risk, and a lessening of the intractable suffering \mathbf{cf} chronic psychiatric illness all indicate that cingulotomy can be an effective, safe treatment for patients with affective disorders that are unresponsive to all other form?; of therapy.

Introduction

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On April 4, 1962, we began a study of the safety, efficacy, and appropriateness of bilateral anterior stereotactic cingulotomy for the treatment of patients whose psychiatric illnesses or chronic pain had been refractory to all other treatments. As of January 1, 1986, 465 patients had been operated on, and 696 separate bilateral cingulate interruptions had been performed.

Respite this extensive experience (Ballantine et al. 1967, **1972**, **1977**, <u>1985</u>), a detailed descriptive analysis of this group of patients had not been previously reported, nor were predictors of outcome satisfactorily identified in previous publications. To overcome this deficiency, we have undertaken a detailed analysis of a cohort of 198 psychiatric patients operated *or during* the first **20** years of this study.

In this article we report on the relative safety of the procedure, the diagnostic profile of the operated patients, and the relationship of the type of psychiatric illness to status postcingulotomy. The relationships of postcingulotomy status to the sex of the patient, number of operations, and duration of follow-up will be presented in a subsequent paper.

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Address repunt requests to Dr. H. T. Ballantine, Massachusetts General Hospital, 15 Parkman Street, Boston, MA 02114. Received August 29, 1986; revised December 1, 1986.

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Methods

Subjects

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This report is limited to a study sample of 198 psychiatric patients drawn from a population of 387-individuals who had one or more cingulate interruptions for the treatment of psychiatric illness or chronic pain during the years 1962 to 1982. All were 2–22 years postoperative at the time of evaluation. Psychiatric patients comprised 70% of this **group** (n = 273), whereas 21% carried diagnoses of "chronic pain syndrome" and 9% suffered from the intractable pain of terminal cancer. The pain patients will be reported separately. The psychiatric patients were referred by their treating psychiatrists because psychotherapy, pharmacotherapy, and electroconvulsive therapy (ECT), when indicated, had failed. A three-person Institutional Review Board (IRB), consisting of the operating neurosurgeon, a psychiatrist, and a neurologist appointed by the General Executive Committee of the Massachusetts -General Hospital, assessed the suitability of each-individual for inclusion in this series, based on diagnosis and prior treatment. Cingulotomy was recommended only if the IRB concluded unanimously that all reasonable nonoperative treatments had failed, that informed consent for surgery had been obtained, and that the patient might benefit from the operation.

Psychiatric Diagnosis

The formal criteria for psychiatric diagnoses have changed over the years from the introduction of the *Diagnostic and Statistical Manual for Mental Disorders* (DSM-I) n 1951 to DSM-II (1968) and **now** DSM-III (1979). The patients seen during the early years of the study were therefore diagnosed by different criteria from those seen since 1979. Fortunately, the criteria for the major psychiatric diagnoses of depression and schizophrenia have changed little over the years, allowing the older DSM-II and DSM-II diagnoses to be classified according to DSM-III. Consequently, all patients in this study had their principal diagnoses designated by modem DSM-III criteria.

Operative Technique

Through bilateral burr holes, 1.2 cm in diameter, 9.5 cm posterior to the nasion, and 1.5 cm to either side of the midline, electrically insulated thermistor electrodes **are** positioned in each cingulate bundle under fluoroscopic control following ventriculography. The targets are located 0.66 cm lateral to the midline bilaterally. Anteroposteriorly, the targets vary symmetrically from 0 cm to **4** cm posterior to the anterior horns of the lateral cerebral ventricles.

The uninsulated 1.0-cm tips of the electrodes are heated to 80–85°C for 100 sec by a radiofrequency current. The lesions **are** calculated to be 1.0 cm in diameter and 2.0 cm in vertical length. The lower limits are 1.0 mm above the roof of the ventricles, as seen radiologically.

Data Collection and Analysis

Adequate follow-up data were available on 198 of 273 psychiatric patients (73%). These included questionnaires, a detailed review of the clinical histories, and long-term outpatient contacts with many of the study group. On the basis of this cumulative information, a **DSM-III** classification was confirmed, and each subject's level of social functioning

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and wellness was determined according to the rating scale described below. Demographic variables of sex, age at time of first operation, number of years ill, referring and consulting diagnoses, number of procedures, course following procedures, and complications were recorded for simple and multivariate analyses relative to each patient's postoperative status.

Earlier reports of our experience with stereotactic cingulotomy employed a 0–5 categorical-rating scale to-designate a patient's current, global, psychiatric=social_status. To maintain continuity and comparability to those studies, this scale was maintained as the central classifying criterion:

- Status 5. Patient is essentially well, functioning normally without treatment of any kind.
- Status 4. Patient is functionally normal on maintenance medication and/or psychotherapy.
- Status 3. Patient is considerably improved over preoperative state, no longer critically ill or institutionalized, usually working to some extent, but still displays **many serious problems** or suffers periodic recurrence of disabling symptoms, requiring continuing psychiatric supervision.

Status 2. Patient shows slight improvement and better response to treatment, but still requires intensive care and is unable to work.

- Status 1. Patient shows no change-neither improvement nor decompensation.
- Status 0. Patient's illness **has** progressed; symptoms **are** worse; he is unable to function as well as before cingulotomy.

Status S. Suicide, which may occur in any of the above statuses.

All patients accepted for cingulotomy were completely disabled or severely handicapped and were unresponsive to all reasonable and generally accepted nonoperative therapy. The determination of postoperative status required the concurrence of all investigators.

Results

Safety

There have been no deaths in this series of 696 cingulotomies. Two hemiplegias were the result of intracerebral hematomas provoked by insertion of the ventricular needles: an incidence of 0.03%. Postoperative seizures, well controlled by phenytoin, occurred in 1% of the patients.

An ongoing independent study of a *cohort* of our patients is being performed for the federal government by the Department of Psychology, Massachusetts Institute of Technology. The preliminary reports state: (1) there is currently **no** evidence of lasting neurological or behavioral deficits after surgery; (2) a comparison of preoperative **and** post-operative scores reveals significant gains in the Wechsler IQ ratings; and (3) when the total group of patients was subdivided according to diagnosis, the incidence-of improvement was high in patients with persistent pain and also in those with depression, but low in those with a diagnosis of schizophrenia or obsessive-compulsive neurosis. The only decrement identified by these investigators was an irreversible decrease in performance of the Taylor Complex Figure Test in patients over **the** age of 40 (Corkin et ai. 1979; Corkin and Hebben 1981) {Figure 1).

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Patient Characteristics

There are 111 women (56%) and 87 (44%) men in the study population of 198. The mean age at the time of first cingulate interruption is 39.3 years (range 10–75 years). The mean postoperative follow-up time is 8.6 years, ranging from 2 years to 22 years following the first cingulate procedure. Distribution by primary diagnosis is shown in Table 1.

Changes in Psychiatric Status after Cingulotomy

The preoperative seventy of the 198 patients' illnesses and disability was extreme. A marked depressive component was universally present, and 43% (n = 86) were suicidal, with 26% (n = 52) attempts and 17% (n = 34) ideation. The postoperative follow-up status is shown in the distribution chart, with the best at the left (Figure 2). Twenty-six patients (13%) are fully recovered and stable (status 5) without recourse to ongoing



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Affective disorders	120	(61%)
Unipolar	83	
Bipolar	23	
Schizoaffective Obsessive-compulsive		(16%)
Anxiety	14	(07%)
Schizophrenia Personality disorders Miscellaneous	11 9 12	(06%) (04%) (06%)
Atypical psychosis	3	(0070)
Uncertain diagnosis	2	
Organic brain syndrome	2	
Violent autistic/MR	2	
Anorexia nervosa	3	

 Table 1. Diagnostic Distribution of 198 Psychiatric Patients

psychiatric treatments. Another 46 patients (23%)continue to need psychiatric supervision and medication, but otherwise are functioning normally (status 4). An additional 51 patients (26%) have varying degrees of psychiatric disability, requiring ongoing supervision and treatment (status 3). Nevertheless, they are markedly improved over their preoperative status. Two illustrative case histories follow.

J.S. is a 34-year-old man who is currently employed as an investigator in the office of a county district attorney. He received the first of two cingulotomies on **May 1**, **1978** at the age of 26. His illness began with paranoid thoughts at the age of 18. Six months

Figure 2. Postoperative status of 198 psychiatric patients.



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> after the onset of these symptoms, he assaulted his mother and began psychiatric treatment. The patient was hospitalized at this time, treated with thorazine, and went into remission. One year later, he suffered a second psychotic break, with bizarre and assaultive behavior. ECT and neuroleptic medications brought about another remission, but serious suicidal thoughts at age-20 required hospitalization, lithium, neuroleptics, and ECT, which provided only temporary benefit. Multiple suicidal and homicidal threats continued in spite of long-term hospitalization and therapy. At the time of his first stereotactic cingulotomy, he was labled "schizophrenic" and was not employable.

> Postoperatively, J.S. felt more relaxed and better able to concentrate. He enjoyed family life and home projects and was able to complete one college course with a good grade. Ten weeks after cingulotomy, he had another psychotic break that progressed in severity despite massive doses of neuroleptics **and** lithium.

Repeat cingulotomy was performed in December 1978. This was followed by continual improvement. The patient-was able to return to work and take-two more college courses during the following 10 months. At this point, his father became seriously ill, which disturbed the patient to the point where he admitted himself to a hospital. After 1 week of hospitalization, he was able to go back to school and back to work,

Gradual improvement continued, although the patient required significant psychiatric outpatient supervision. At the age of 33, 7 years after the last cingulotomy, J.S. had graduated **from** college, was holding a responsible job, and was coaching hockey in his hometown school. A year later, he had progressed to living in his own apartment and had continued to work regularly. However, in an attempt to become independent of his psychiatrist, the patient reduced his medication and suffered a hypomanic attack. This episode was short-lived, and at this writing, J.S. remains gainfully employed.

Because of the need for frequent psychiatric treatment, J.S. is currently considered to be in status 3.

N.A. is a 53-year-old housewife and businesswoman who had a cingulotomy performed when she was 45. She had suffered from a chronic recurrent affective disorder for approximately 20 years. Her symptoms included multiple episodes of depression, somnolence, ataxia, dysarthria, and suspected manic episodes. She had nor responded to ECT, neuroleptics, tricyclic antidepressants, lithium carbonate, monoamine oxidase (MAO) inhibitors, individual milieu, or group or couple therapy. She had made three suicide attempts—two by drug overdoses and one by wrist cutting. The last suicide attempt led to psychiatric hospitalization from March 17 to May 23, 1979, at the end of which time she was referred for cingulotomy.

Over the next 3 months after surgery, there were short bouts of depression without suicidal ideation. Three years after the operation, the patient wrote as follows: "It is hard to believe that yesterday was my third re-birthday—three years since your cingulotomy operation on me. It has been three beautiful years—three years of being able to enjoy life—three years of being able to function as a human being again—being able to be a loving wife, mother, grandmother and friend."

On November 16, 1986, 7.5 years after her cingulotomy, the patient wrote in part:

On June **29**, 1979, a very important day in my life, I was one of the priviledged **few** to have the cingulotomy operation. I celebrate this date yearly as my re-birthday.

For many, many years before this day, I was plagued with severe depression and was in and out of mental wards and hospitals many, **many** times. There was **no** apparent reason for **my** being depressed. I had taken many different kinds of medication, therapy and shock

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treatment—none of which had lasting good results. Many, many times I was not much more than a vegetable—merely existing—not really living—a burden to my family.

During the eight and a half years [sic] since I had the cingulotomy operation, I have been able to lead an active, useful, productive, happy life. . .

I have compiled figures on my medical expenses for the eight months prior to my cingulotomy operation and for the first eight months of 1986 (these values are shown in Table 2).

The patient is currently being maintained on 150 mg of maprotiline (Ludiomil) daily. She is classified as status **4**, in that she is leading a "normal" life, but is still in need of medication.

The remaining 75 patients have had an unsatisfactory outcome: **34** (17%) are only slightly improved (status 2); 12 (06%) are unchanged (status 1); 11 (06%) have deteriorated (status 0) due to progression of the psychiatric illness or a neurosurgical complication (2 patients), and 18 (9%) were suicides.

Psychiatric Diagnoses and Response to Cingulotomy

The question of primary concern is which psychiatric illnesses respond favorably to bilateral stereotactic cingulotomy. To this end, we made a distributional comparison of the postoperative response of subjects in the following diagnostic classifications.

Affective Disorders and Major Depression. Sixty-one percent of the study population carry diagnoses of major affective disorders (n = 120), including unipolar (n = 83), bipolar (n = 23), and schizoaffective (n = 14). There is no significant difference between the subtypes in response to cingulotomy.

The higher degree of favorable response to cingulotomy among the 120 subjects with affective disorders is shown in Figure 3. In comparison to the population as a whole, there is a higher percentage in categories 5 and 4 and a **lower** percentage in all other categories. However, it is also true that the majority of suicides in the study population (14 of 18) are from this diagnostic group,

Anxiety Disorders. Forty-six patients, 23% of the study group, suffered from anxiety disorders. Thirty-two had an-obsessive-compulsiveillness, and because of the particular interest in the postoperative status of this diagnostic group (Kelly 1980), we considered them separately and in contrast to 14 subjects with nonobsessive anxiety disorders, e.g., phobic anxiety and generalized anxiety. A clinically noteworthy difference exists between obsessive and nonobsessive anxiety disorders following cingulotorny.

Table 2. Medical Expenses before Operation and for the First 8 Months of 1986

		11/1/78-6/28/79	1/1/ 86 8/31/86	
Hosp		11,697.80	0.00	
	hiatrists er physicians	4,753.00 639.00	65.00 52.00	
Med	ications	424.00	408.00	
Lab Tota	i	981.00 \$18,494.80	63.00 \$588.00	





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Eleven of the 14 anxiety patients have achieved stable marked improvement or functional wellness: 50% (n = 7) are in status 5 or 4 and 29% (n = 4) are in status 3 (Figure 4). In contrast, patients with obsessive-compulsivedisorders show a more even distribution across postoperative statuses: 25% (n = 8) are functionally well (status 5 and 4), 31% (n = 10) show marked improvement (status 3), and 41% (n = 14) show slight or no improvement (status 2, 1, 0). Figure 4 contrasts the subtype distributions. The percentages for the combined anxiety disorders are shown in each status for comparison wit!! the total population.

In this study, we find that subjects with obsessive-compulsive disorders do not appear to respond to cingulotomy as dramatically as do those with generalized anxiety or affective disorders.

Schizophrenia. Schizophrenics constitute only 5% of the psychiatric study population (n = 11, 3 women and 8 men). Three of the 11 patients demonstrated negligible or no remission in the course of their disease. Four others, however, experienced considerable improvement. Two of the four are functionally well in status 4 and are employed full time; the other two are in status 3. Another four were violent or self-mutilating, and the alleviation of this behavior is notable. The postoperative status of this small diagnostic group is shown in Figure 5, together with the small sample of personality disorders.

Personality Disorders. A principal diagnosis of personality disorder, unspecified for type in this study, occurs in only nine subjects, and all have additional complex combinations of severe affective and medical problems as well. **Princip** personality disorders are only **4.5**% of the study population. The postoperative status for this diagnostic group

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Figure 4. Status postcingulotomy: anxiety versus obsessive-compulsive disorders.

is shown in Figure 5. Axis II personality disorders, in addition to the principal Axis I diagnosis, are a complicating factor in 13% of our 198 cases.

Miscellaneous Psychiatric Disorders. Twelve subjects with a variety of uncertain, atypical, and unrelated psychiatric disorders were **part** of this series (see Table 1). Three women with severe depression and a principal diagnosis of anorexia nervosa are, after much instability postoperatively, now in status 5 (n = I) and status 4 (n = 2). Two off three subjects with atypical psychosis are status 4; the other is status 0. Two women with organic brain syndrome are status 0. Two subjects, one man and one woman, with uncertain diagnoses are in status 3 and status 1, respectively. Two retarded, autistic teenage boys are in status 3 and 2; but in both cases, their improved behavior has allowed them to remain at home and attend a special school.

Lack of cohesiveness among these individuals makes it impossible to generalize about outcome versus diagnosis.

Discussion

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Relative Safety of Stereotactic Cingulotomy

The absence of operative mortality and the **low** incidence of serious complications (0.03% hemiplegias and 1% controllable seizure disorders) in a series of 696 bilateral cingulo= tomies represent firm evidence of the safety of this procedure. Although intracerebral hematomas cannot always be prevented, the sequelae can be readily controlled, provided that recognition and treatment are instituted in a timely fashion. There is also no evidence of diminution in intellectual function, "emotional tone," or "social control." These fa-



Figure 5. Postoperative status of 11 schizophrenic patients and 9 personality disorder patients.

vorable findings contrast sharply with the complications reported for other types of surgery for psychiatric illness (Tooth and Newton 1961; Tucker 1961; Strom-Olsen and Carlisle 1971; Scoville and Bettis 1977).

Although 45% of our patients needed repeat cingulate interruptions, we have been reluctant to perform two of our standard cingulotomies at the first operation for two reasons. First, a significant number of our patients have required only one operation. Second, "staging" the procedures when **more** than one is necessary is, in our opinion, one of the most important factors responsible for the absence of undesirable side effects from interrupting the cingulate bundles.

Problems in Assessing the Efficacy of Cingulotomy

Any protocol for assessing the results of surgical interventions for psychiatric illness must perforce be influenced by the social and economic environment in which such interventions take place. The research design used in this long-term study of cingulotorny patients was an open, prospective one. Those clinicians most familiar with the patients assessed their overall adaptation with a categorical rating between 0 and 5. This global categorization was the most clinically valid manner to assess the postoperative functioning of the patients psychiatrically, socially, and medically. These observations by clinicians who knew the patient best were most sensitive to change over time.

We cannot conclusively state that rater bias was eliminated, nor that the nonrandom treatment of patients with cingulotomy, or variations in follow-up treatment, might not have affected the postoperative assessment to a degree. The theoretical ideal of a randomized double-blind trial might have solved these problems; however, the feasibility of such a study and the loss of sensitivity in nonglobal ratings would have been potential problems. Variations in diagnostic criteria with the various DSMs, the various research usine of al.

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instruments used over the 20 years of this study, and the financial burden placed on the randomized unoperated patients also precluded a controlled trial.

There is another critical obstacle to an ideal scientific design when treating severely ill patients: a blinded, randomized trial of cingulotomy would be next to impossible for ethical reasons alone. Patients are only considered for operation after all other treatment modalities have failed, suffering is overwheiming, and the potential mortality considerable. Placebo or the reuse of failed treatments in a control group would not be ethical under the aforementioned conditions. This opinion is supported by the statement in the Position Paper on Psychosurgery issued by the Canadian Psychiatric Association that, "It is difficult to see how experimental procedures involving the use of 'placebo operations' could be ethically and acceptably undertaken. We therefore have to rely on a more traditional method of evaluation by objectively reviewing the responses of patients who have already received these [non-surgical] treatments" (**Earp** 1979, p. 359).

In 1975, the Research Committee of the Royal College of Psychiatrists proposed an experimental design for a prospective control trial to remove potential bias in assessment; however, due to societal pressures, their protocol has never been activated (Research Committee, Royal College of Psychiatrists 1977).

The Department of Psychology at the Massachusetts Institute of Technology has the only prospective study of psychosurgery wherein ratings are being done by completely independent agents, and cingulotomy, subcaudate tractotomy, and nonsurgical treatments are being compared. Provisional reports on 22 cingulotomy patients treated for severe pain have been published (**Corkin** and Hebben 1981). Outcome was compared from 1 to 12 years after the procedure in cingulotomy, subcaudate leukotomy, and pain unit behavioral treatment. In this comparative trial, cingulotomy was significantly more effective than either of the two other treatments.

Ballantine et al. (1972) have also reported on a series of patients in whom the first cingulate lesion was placed superior to the roof of the ventricle in its lateral radiological projection, thus sparing the inferior fibers. Only 33% of these patients improved. When those patients were reoperated upon and the lesions placed deeper in the cingulum and superior fibers of the corpus callosum, the percentage of useful improvement rose to 80%. This is not double-blind, but suggests that the improvement is not nonspecific.

In summary, vile believe that what has been obscured by lack of finesse in objective blind ratings has bee:: compensated for by the multidimensional assessment of the quality of these patients' lives over the years. The completion of the MIT study (Corkin et al. 1979) of a consecutive group of 187 of our psychiatric patients assessed neuropsychiatrically in detail will be the necessary supplement to our global clinical assessment.

Suicide

The death by suicide of 18 patients over a mean foilow-up period of 8.6 years results in a suicide rate of 1% per year. Given the overall postoperative improvement in our population, this suicide rate stands out as a major postcingulotomy problem. Is there a relationship between suicide and the procedure? Are these suicides a reflection of the personalities of the patients, of their psychiatric illnesses, or are **they** a side effect of cingulotomy?

Suicidal ideation with major affective illness is present in 83% of our patients preoperatively. All 18 of our suicide patients had preoperative suicidal ideation, and 13 (72%) had made suicide attempts before cingulotomy. Compared to Pokomy's report

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(1983) of a 1% per year suicide rate in a male population hospitalized because of affective disorders and 1.7% in those who had previously attempted suicide, and the study by Kessel and McCulloch (1966) showing suicide attempters with a successful suicide rate of 2% per year, the number of suicides in our patient population is less than expected. Studies of suicide indicate that suicide attempters will eventually complete a suicidal act in 10% of cases. This figure increases to 15% in the case of psychotic depressives. The cingulotomy patients' suicide rate of 9% is therefore consistent with this overall mortality. The psychiatric literature indicates that the **risk** of death for someone with a history of a suicide attempt is between 1% and 5% per year, which is similar to the 4% per year rate in the depressed population (Kessel and McCulloch 1966).

The relief of the seventy of psychiatric illness following cingulotomy suggests that it is not the illness (usually depression) that leads to suicide. Rather, it is previous suicidal behavior, at times exacerbated by inadequately treated depression, that leads to the suicidal act.

Conclusion

Twenty-four years ago we asked two questions about stereotactic bilateral anterior cingulotomy: Is it safe, and if so, is it effective? The answer to the first is clearly affirmative. As to the second, until a method of analysis is discovered or invented that can substitute for a double-blind study, there will always be debate. Nevertheless, our rigid adherence to operating only on patients with major psychiatric illnesses previously refractory to all treatments, coupled with our length of follow-up, leads us to conclude that this procedure is a valuable adjunct in the treatment of intractable disorders of affect. Of our 198 patients, **123** (62%) experienced improvement in the quality of their lives, relief of depression, improvement in cognition, and reduction in drug abuse.

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