	LORAIN COUNTY
1	STATE OF OHIOS) 2001 SEP 28 A H
2) SS: COUNTY OF LORAIN) CLFRK OF COMMON OF -
3	COUNTY OF LORAIN) RON NABAKOWSKI IN THE COURT OF COMMON PLEAS
4	
5	JAMES J. ARMSTRONG, Executor of) the Estate of NANCY ARMSTRONG,)
6) Plaintiff,
7	VS.) NO. CV126180
8 9	EMH REGIONAL HEALTHCARE SYSTEM) d/b/a AMHERST HOSPITAL, ET AL.,)
10	Defendants.
11)
12	
13	
14	Deposition of:
15	KENNETH GEORGE SMITHSON, D.O., Ph.D.
16	Taken on behalf of
17	Defendant Briccio Celerio, M.D.
18	September 5, 2001
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1 A P P E A R A N C E S 2 3 FOR THE PLAINTIFF: 4 MS. DONNA TAYLOR-KOLIS 5 Donna Taylor-Kolis Co., LPA 330 Standard Building 6 Cleveland, Ohio 44113 7 FOR THE DEFENDANT PAUL BARTULICA, M.D. a REMINGER & REMINGER BY: Mr. Joseph Farcione (via telephone) 9 113 Saint Clair Avenue N.E. Cleveland, Ohio 44114 10 FOR TEE DEFENDANT BRICCIO CELERIO, M.D. 11 WESTON, HURD, FALLON, PAISLEY & HOWLEY 12 BY: Mr. Ronald A. Rispo 2500 Terminal Tower 13 Cleveland, Ohio 44113 14 15 16 17 18 19 20 21 22 23 24 25

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I N D E X ديد ، حدد ~ y lone... EXHIBITS Deposition Exhibit No. 1.... Deposition Exhibit No. 2..... 28 Deposition Exhibit No.

The deposition of KENNETH GEORGE SMITHSON, D.O., Ph.D. was taken by counsel for Defendant Briccio Celerio, M.D., by agreement, at the The formalities as to caption, et cetera, are waived. All objections, except as to the form of the questions, are reserved to the hearing. It is agreed that B. J. Davis, being a court reporter and notary public for the state of Tennessee, may swear the witness and that the reading and signing of the completed deposition by the witness are not waived.

KENNETH GEORGE SMITHSON, D.O., Ph.D. Т the witness hereinbefore named, being first duly 2 cautioned and sworn to testify the truth, the whole 3 truth and nothing but the truth, testified under oath 4 as follows: 5 EXAMINATION 6 7 BY MR. RISPO: 22:02:56 8 Q. Good morning, Doctor. 22:02:58 9 Good morning. Α. 1 0 For the record, my name is Ron Rispo, I Q., 22:03:001: am here on behalf of Dr. Celerio, and this is in 22:03:041 5 regard to a case entitled Armstrong versus the Leary 22:03:1013 Memorial Hospital and several other parties whose 22:03:141 4 names we don't need to go through at the moment. 22:03:181 5 Also in attendance are Mr. Farcione and Donna Kolis 22:03:2416 who are counsel in this case respectively for 22:03:2617 Dr. Bartulica and the plaintiff, Mrs. Armstrong. You've been sworn. I am going to ask you 22:03:3218 22:03:3419 a number of questions. Before I do though I'll 22:03:3820 inquire, have you been through a deposition before? 22:03:4021 Α. I have not. Okay. Well, congrat ations This is 22:03:4027 22:03:4223 your first. The procedu is informal, b the substance is important. It's official. It's taken down word for word and could be used at trial at the

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appropriate time if you weren't available. So, for 22:03:58] 22:04:02 2 that purpose, I want you to understand that what you have to say is important today, but, by the same 22:04:04 3 22:04:10 4 token, you cla 22:04:12 5 22:04:14 6 22:04:18 7 22:04:22 8 22:04:24 9 22:04:2610 22:04:3011 22:04:3212 22:04:3613 Okay. Doctor. w 22:04:4014 d you toll us, first of all your current 22:04:4615 business address 22:04:4616 Α. Department of Anesthesiology, Vanderbilt 22:04:5217 University. I am Assistant Professor of 22:04:5218 Anesthesiology and N eurosurgery, Director of Perioperative Medicine, the Director of the 22:04:5619 22:05:0020 Neurointensive Care Unit, and the Director of our 22:05:0621 Critical Care Fellowship, and I think that's all 22:05:0822 covered in my curriculum vitae. 22:05:1023 0. I do have a copy of your curriculum vitae 22:05:1224 which we will mark as Exhibit 1 to the deposition, 22:05:1625 and I Won't go th rough it entirely, but I do wan<u>t to</u>

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22:05:18 7 ask a couple of pertinent questions about that. 22:05:22 2 (BY MR. RISPO) As I understand from your 22:05:22 Ο. 22:05:24 CV, you did not start out in medicine; is that 22:05:26 5 correct? 22:05:28 6 Did not start out in medicine? Well, In the bence char ---22:05:30 7 Q. Well, in the sense that you did not pursue your medical degree right after college. 22:05:32 8 - lid nc 22:05:34 9 ief] 22:05:36 And, if you would, explain to us 22:05:3811 wł what it is you did do between 1982 and 1990. r Between 1982 and 1990 I to become my mentor in my Ph.D., and during that time I 22:05: published a number of papers. It was really a very ريد:05:--d w invigorating time where I go 22:06:0016 invigorating time where I got to do research and was 22:06:0617 ch? 22:06:0 What was the subject of your research? It was broadly hypothalamic neurobi818gy. 22:06: - -I actually went on to get my Ph.D. in physiology and 22:0 22:0 You were not studying anesthesia during Q. 22:0 19 == the period of 1982 E0 1990? 22:06:2223 No. 22:06:2624 Α. how and when did you ~~ . .

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1 I have a degree in osteopathy. I entered 22:06:36 2 Α. medical school in -- here, let me __ I entered 22:06:42 3 22:06:44 4 medical school in -- it would have been '84, and graduated in 1990 with a Ph.D., and in 1991 with my 22:06:50 5 Doctor of Osteopathy. 22:07:00 7 Okay. I'm a little confused. Were you Q. 22:07:02 & in medical school at the same time that you were a 22:07:04 0 lab technician? 061 0 I finished my 1 technician b and 22:07:1011 ent into my raduate and dical traini When was it tl you were in the lab 22:07:1612 22:07:1813 I thought it s 1982 to '90 22:07:2214 No. Actually, it was 1980 through 1984, Α. 22:07:261 E and I don't have those details in my CV, it's been so 22:07:3016 long ago. It's not really -- at least for the 22:07:3217 pertinent -- for the purpose of the CV, it's not that 22:07:3618 pertinent. 22:07:3819 Q. Okay. Your CV indicates you received a 22:07:4220 Ph.D. in 1990 --22:07:4221 That's correct 22:07:4422 -- and a doctor -- a degree in osteopathy Q. 22:07:5023 in '91. Were you pursuing both degrees 22:07:5424 simultaneously? 22:07:5425 A. Concurrently, that's correct. Michigan

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State had a dual D.O./Ph.D. program that helped 22:07:58 1 support us through that process, that mentored us 22:08:02 2 through that process. 22:08:06 3 And the Ph.D. program was in what area? and neuroscience. Q. 22:08:08 4 Α. And how long were you in th^e osteopathic 22:08:10 5 Q. 22:08:22 6 school? 22:08:24 Well, formally, it would have been six Α. 22:08:26 8 years, or seven years, '84 through whatever '91 is, 22:08:30 9 22:08:30 9 and that's because it's a dual degree program and so 22:08:3410 22:08:35 it takes considerably longer than a traditional straight medical degree. 22:08:40 Q. Was that a full-time program? I. 22:08:42 Absolutely full-time, iike overtime. Α. 22:08:46 It's not much different than any traditional 22:08:5 M.D./Ph.D. program. It's very similar. 22:08:5 But it is not an M.D. program? Q. 22:08:5 It's not an M.D. program. Michigan Α. 22:08:5 we State — Michigan State is a unique campus in that 22:09:0 have both an allopath/gnostic ethics school right 22:09:0 e same basi^C there and we take the same -- receive th science training from the same professors. 22:09:1 22:09:1 Did you apply to the M.D. program? Q. I did not, Α. Why would you have not applied to the Q.

CLEETON DAVIS COURT REPORTERS, LLC. 200 4TH AVENUE N. NASHVILLE, TN 37219 615-726-2737 22:09:26] M.D. program? I was courted by the osteopathic program 22:09:28 2 Α. to pursue a dual degree because of my research 22:09:32 3 experience. 22:09:36 4 Could you not have obtained a dual degree Ο. 22:09:36 (22:09:38 in the medical school? The -- at Michigan State University, no. 22:09:40 Α. 22:09:42 At the time when I entered the school, they had no 22:09:48 M. D. /Ph. D. students at that point, and the program for allopath at Michigan State at that time was 22:09:541 22:09:581 geared primarily towards family practitioners. Describe for us, if you would, please, 22:10:0 Ο. the extent of your training in cardiology. I have no formal training in cardiology Α. other than what one would receive through my crew 22:10:1615 22:10:2216 training during internship, during my residency, and 22:10:2617 during my critical care fellowship no -- you spend time with cardiologists and you look 22:10:3018 22:10:3619 at patients that have cardiovascular diseases, but I 22:10:4020 have no formal credentials in cardiology. 22:10:4421 η. And no classroom training? Oh, of course, during medical school you 22:10:4622 Α. and there's a get classroom training in cardiology, 22:10:4823 22:10:5274 minimal expectation you can read ECG's, et cetera. If you would, describe for me the extent 22:10:5825 0.

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22:11:00 1 of your formal classroom training in cardiology, how 22:11:04 2 many courses if there were more than one. 22:11:06 3 Oh, we had a systems approach. You have Α. 22:11:08 4 a basic science class in cardiovascular physiology. 22:11:14 5 In addition, during my Ph.D. training, we had a whole 22:11:16 6 semester course in cardiovascular physiology, and 22:11:20 7 then there are the clinical courses which are another 22:11:24 8 semester, semester and a half, related to 22:11:26 9 cardiovascular diseases, and that includes anatomic, 22:11:3210 pathological issues related to cardiovascular

22:11:4012 clinical scenario of cardiovascular disease. They're 22:11:4013 presented together.

diseases rolled into -- actually, you know, the

22:11:3611

22:11:4214 Q. So did I count three courses that you 22:11:4415 mentioned?

22:11:4816 You counted three courses, but it's more Α. 22:11:5217 complex than that because the way, at least in the 22:11:5418 undergraduate, my medical school, and I'm going to 22:12:001 9 call that undergraduate training, in that 22:12:0020 undergraduate training -- I would have to look back 22:12:0421 at my transcripts to exactly determine the number of 22:12:0622 courses that are entailed. I can tell you for a 22:12:1023 semester and a half we covered cardiovascular 22:12:142 4 diseases. There we would have cardiologists talk to 22:12:2025 us, we'd have internists talk to us, we'd have

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22:12:22] pathologists talk to us, all about cardiovascular 22:12:26 2 diseases. So I don't recall how many credits that 22:12:30 3 was worth or how many formal courses that actually 22:12:34 4 entailed. 22:12:34 5 Ο. Same question with respect to anesthesia. 22:12:38 6 What formal training did you have in anesthesia? 22:12:40 7 My formal training in anesthesia was Α. 22:12:44 8 during my residency at the Mayo Clinic. 22:12:46 9 Q. Not during medical school itself? 22:12:4810 We got one course, I think, in the Α. 22:12:5211 rudiments of anesthesiology. I wouldn't call it much 22:12:5612 of anything. 22:13:001 3 0. How many years did you spend in 22:13:0214 anesthesia residency at the Mayo Clinic? 22:13:041 5 Three years, from 1993 to 1996. Α. 22:13:1416 Q. Are you board certified in anesthesia? 22:13:1617 Α. I am board certified in anesthesiology, 22:13:201 8 and I'm also board certified with a special 22:13:201 9 certification in critical care medicine. 22:13:2220 Ο. When were you board certified in 22:13:2421 anesthesiology? 22:13:2422 Board certified in anesthesiology -- may Α. 22:13:2873 I refer to that? 10 of '99. 22:13:3274 Q. And critical care? 22:13:3425 Α. 11 of '99. Is that right?

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Q. Well, I'm looking at your CV. 22:13:44 1 I'm assuming it's correct. 22:13:44 2 22:13:46 3 Α. Yes. I assume that it's correct. Ι 22:13:48 4 think that's correct. 22:13:48 5 Ο. All right. If I may look over your 22:13:54 6 shoulder again here. 22:13:54 7 Α. Yes. 22:14:00 8 MS. TAYLOR-KOLIS: We forgot to tell 22:14:00 g you, if you have to answer a page for a patient, 22:14:0410 that's far more important than the deposition, so --22:14:0811 Q. (BYMR, RISPC) It looks like, from your 22:14:1012 resume, that you left Mayo Clinic in '97 and arrived 22:14:141 3 at the Department of Anesthesiology here at 22:14:161 4 Vanderbilt in '97. 22:14:1815 Α. That's correct. 22:14:1816 Q. So you've been here now four years? 22:14:2017 That's correct. Α. 22:14:241 8 Q. At the time of the events in question in 22:14:2619 this case in 1999, you had been in practice as an 22:14:3220 anesthesiologist for a period of two years? 22:14:3621 Two years, yes. Α. 22:14:3822 Q. Okay. And at the time of these events 22:14:4023 you were riot yet board certified in anesthesiology or 22:14:4424 critical care medicine? 22:14:4625 That's correct. Α.

22:14:54 1 Q. Your CV describes your position as 22:14:56 2 Director of Perioperative Medicine. 22:15:00 3 That's correct. Α. 22:15:00 4 Q. Would you tell us what is entailed in the 22:15:04 5 directorship, what are your duties and 22:15:06 6 responsibilities, and specifically what is meant by 22:15:08 7 perioperative medicine? 22:15:10 8 Well, perioperative medicine, that title Α. 22:15:14 9 hallmarks that the physiology of a patient's medical 22:15:2210 condition changes dramatically in the perioperative 22:15:261 1 period which is different than physiology during chronic illnesses, and so Dr. Charles Beaty, the 22:15:2812 22:15:3213 Chairman of the department at that time, established 22:15:3414 a perioperative medicine service where patients would 22:15:4015 be systematically evaluated in the preoperative 22:15:4416 period by anesthesiologists and then followed in the 22:15:4817 postoperative period by anesthesiologists serving as 22:15:541 8 hospitalists, if you were, for the medical management 22:15:5619 of those patients on the floors. So this entailed a 22:16:0220 complete continuum of care from a preoperative 22:16:0421 evaluation all the way through the operative course 22:16:0827 and the postoperative course. My responsibility as 22:16:1023 Director was to run that service. 22:16:1424 Ο. Do you, in the course of your duties in

^{22:16:18}25 the perioperative medicine, participate in the actual

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run not S 37 а, Ц then и di U Ø a, 4 17 U) a, L L ർ a, ∆ 1 IJ С L) а, **3** th'e 2 ati g а, **3** n 0) ൻ m a, 뇌 1 Ч О ũ М υ а ۰H 0 a, a, L L L Ġ 50Y operat μ - 1 a, a, U а, **3** \sim , no⊼ аот л ר ד ד *3* and ¢ € Ĥ С Ψ Ψ that sch[®] **p**ul a, 5 roup ΰ н. К rol a, **a** 0 a, L a, nb רי-ט 'n Ψ., a, 4 ന ഗ L, Ŋ 0 0 U ч Ч 61 -4 а, Ч**а** inni Q, a, a a, C E a, ഗ ů, uni**w**p LLC いった 147m лnО a, ਮ a akhng a c v σ \geq units U a, **a**, **a**, a, a, H TQis Ø a, a, m 1q Ч 0 с О ų Ļ ctual ati**s**, a mepicine REPORTERS, TN 37219 the đ they'ry a, 님 аРог \triangleright р р · 도 도 a, L L υ a, a ທ а, С Ч tа Х, а ----10 3770**3** th_`n modil a, L L Ч th'e the the -1 Q, Я щ S μ ц operati**c**e Ч iη sth_e а a, 00 т Т postope r-----0 4 systa etically τM $\overset{a,}{a}$ r---| vera. uoa TT4 3 44 σ 41 Ы ч а, **3** а, **3** patkwnts **۔** ب ey're th а, О<mark>Т 3</mark>Л а, Ш 0 0 0 a, ov£a⊥§ that ч a, U 0 μ ЧU a' u 0 +--1 diwision COURT NASHVILLE, ი Ko н Ч m Ð • а;л а,Ц **З** they C++ rionera S **...** a, a0. S 4 ਨ੍ਹਿ immeрь́ыte ients th а, **3** Ы •----•----. in th th ы га Д а guγ management \geq •,--Φ Cente Лou *C* თ \mathcal{D} a, arturill Ч -4 ₽ rd Ы δ Ē DAVIS 44 സ mepicine 0 ഗ rstar Sur physici μ L th th ന a, ม พ nts a a Ц tha. Т Ŋ Ы Φ a, E id ທ 0 0 ດ ບັ t**Q**at Ther n t a, A ٠r-ł а, а 0 kω, aue а, ЦЧ Mypical CLEETON FINUE N. ч 0 pativi m P atiel Ø σ a, 뇌 a **х** Ч ris] nnd Ē a, 1 1 auy С 1 а, С Ш ----th th S а, СЪ a, L L 0 N 450 litγ лna Ц time, a, ドロ い •++ თ u ם, **ב** ביים •••• а Φ Х ٠. ion^erati**u**e io" a nt those a ⊳ -----Ŋ Н s t -0 -4 н. Ц tual. С а, СЪ iow ntify a, ----С Ц Т đ ----m 2 S А AV 0 a, X re 0 đ L'P BDODSIA ntensi**e**i a, in u a u tra μ ----đ Ŋ rion^w r S • – ഗ same Ŋ 0 -4 Ч aLa ent чн ΰ 4TH the the Ψ ÷ Φ Ο anesthe μ^ω Γ ΑΟ**Ω ,** ₩ETD(P F modify lua đ Q Α \mathcal{O} S А 0 μ Q, ing a, U 0 Ο roup ЧЧ m ų, μ Ļ н г • ---a,エロン pat: 200 Ъе р Ч Я ൻ Ŋ đ a, C а, а й а a, .⊢ 3 0 0 3 Ο д 5 C ൻ à •----Ψ μ σ Q, Ð Ð a, \sim $^{\circ}$ ム ഹ Q ω σ 0 \mathcal{O} ம Q ∞ σ 22:17:3220 \sim $^{\circ}$ 4 22:17:5225 -, 1 \sim 4 Γ 22:17:482 22:17:442 22:17:00T Z2:17:10] 22:17:20] 22:17:28I 22:17:32J 22:17:382 22:17:462 22:16:561 22:17:061 22:17:14] 22:17:18₁ 22:17:24] 22:16:26 22:16:30 22:16:40 22:16:46 22:16:50 22:16:54 22:16:24 22:16:34 22:16:44

22:17:56 1 One was in Ohio, if I understand. it. That's 22:17:58 2 originally where we picked up on the idea. And then 22:18:02 3 there's a private practice group in Las Vegas that 22:18:08 A does this. But, in a whole, I would say that this is 22:18:12 5 relatively rare. I think that's an accurate 22:18:14 6 statement. 22:18:14 7 0. A perioperative specialist would not 22:18:18 8 commonly be found in a community setting? 22:18:20 9 Α. That's absolutely true. 22:18:241 () Q. To what extent have you, in fact, 22:18:267 1 experienced in the operative suite doing the 22:18:3012 anesthesia, being the primary or the physician in 22:18:341 3 charge of anesthesia? 22:18:341 4 I spend half of my time in the operating Α. 22:18:3815 room. 22:18:401 6 0. Now, is that as of the present or has it 22:18:4617 been true since '97? 22:18:4618 That's true since '97. Α. 22:18:481 9 Q. How does that square with your --22:18:5020 I spend half of my time doing operative Α. 22:18:5421 management and the other half of my time doing 22:18:5822 management in the ICU. It probably breaks down to --22:19:0623 the other component of what's done is education, and 22:19:1024 that is wrapped in with your clinical 22:19:1425 responsibilities, so you don't have a separate

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22:19:16 1 service that does education. 22:19:20 2 Well, I need to understand what appears Q. 22:19:22 3 to be a contradiction in your earlier statement here. 22:19:24 4 You told me earlier that perioperative medicine does 22:19:28 5 not involve anesthesia in the surgical suite. 22:19:32 6 It doesn't formally involve anesthesia. Α. 22:19:36 7 Let me -- let me -- perioperative medicine is an 22:19:40 8 attempt to create a continuum of care from targeting 22:19:46 9 an accurate preoperative evaluation so we get 22:19:5010 accurate assessment of risks, and then, if we can 22:19:5411 assess those risks, can we modify those risks. A 22:19:5812 classic example would be somebody with ischemic 22:20:0213 cardiac disease where it's clear from the literature 22:20:0614 now that perioperative beta blockade is helpfui in 22:20:101 5 those patients. That information is communicated 22:20:1416 with my colleagues in the operating room suites, and 22:20:181 7 so it helps them modify their anesthetic techniques 22:20:2218 so we get the best outcome. They're not operating in 22:20:261 9 a vacuum anymore. And then, postoperatively, we 22:20:2820 follow them and make sure that all those little --22:20:3021 those other medical problems are addressed. 22:20:3422 0. What I need to know is how much time you 22:20:3823 spend per week, per month, --22:20:4024 Fifty percent of my time. Α. 22:20:4225 Ο. ... in the operative suite as the

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22:20:44 <u>1</u>	physician in charge of anesthesia.
22:20:46 2	A. Fifty percent of my time.
22:20:50 3	Q. How does that square with your earlier
22:20:52 4	statement that the perioperative medicine does not
22:20:54 5	involve doing the anesthesia in the surgical suite?
22:21:04 6	A. I'm not the only one I'm the Director
22:21:06 7	of the service, but I'm not the only one that's
22:21:08 8	providing that service.
22:21:12 9	Q. So you have essentially dual roles?
22:21:1410	A. I have dual roles. I have many hats.
22:21:1411	Q. Okay.
22:21:1612	A. So the other inrensivists that are on the
22:21:20 ₁ 3	service, which would have been let's see. In ehe
22:21:2614	beginning ${f i}{f t}$ was Dr. Dalton and Dr. Clarkson. Then
22:21:30 <u>1</u> 5	it became Dr. Varwise, Dr. Clarkson, and myself. And
22:21:3816	so there there are a number of other people that
22:21:40 ₁ 7	take those responsibilities. So I don't take
22:21:4218	those the responsibilities of running the unit all
22:21:4819	by myself. And so the time that I'm not spending
22:21:5220	running the unit and running the perioperative
22:21:5421	medicine service, I'm in the operating room.
22:21:5622	Q. Well, you are the Director, are you not?
22:21:5823	A. That's right
22:21:582 4	Q. Does that involve administrative duties?
22:22:0025	A. Oh, some minor administrative duties.
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22:22:04 1 Q. What percentage of your time in the 22:22:06 2 average week do you spend in administrative duties? 22:22:10 3 Α. Five percent at most. 22:22:12 4 Q. What percent of your time is involved in 22:22:14 5 research? 22:22:16 6 Another five percent at most, and all my Α. 22:22:20 7 research at present is clinical research, so it's 22:22:24 8 done in concert with my clinical responsibilities. 22:22:32 9 How much time do you spend in patient Ο. 22:22:3410 care? 22:22:3411 The remainder of time is spent in patient Α. 22:22:3612 care. 22:22:381 3 Q. How much time do you spend teaching? 22:22:4014 Teaching is wrapped in with the clinical Α. 22:22:4415 responsibilities, and so you don't have separate --22:22:4816 when you're on clinical service, let's say you're in 22:22:5017 the operating room, you have a responsibility to 22:22:5418 teach the resident during the performance of an 22:23:001 9 anesthetic of that case, but you're taking care of 22:23:0420 the patient at the same time, so there's not --22:23:0621 there's not separate teaching responsibilities. 22:23:1022 They're all -- they're wrapped in together. 22:23:1273 Besides administration and research, do Q. 22:23:1624 you have any other duties outside of patient care? 22:23:2025 No, not off the top of my head. Α.

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22:23:24 1 Q. Now, then, getting back to your time in 22:23:26 2 the operative suite, when you're in the operative 22:23:30 3 suite, are you the sole anesthesiologist in charge of 22:23:32 4 the patient? 22:23:34 5 Yes. Now, --Α. 22:23:36 6 0. Do you --22:23:38 7 Α. I'm sorry. 22:23:40 8 Q. Do you have any supervision from any 22:23:42 9 otner anesthesiologist in the operative suite? 22:23:4610 Α. No. 22:23:5211 Q. And how long have you been commissioned 22:23:54; 2 or qualified to be the physician in charge in the 22:23:5813 operative suite? 22:24:0014 Since I've been at Vanderbilt. Α. 22:24:001 5 Ο. Since '97? 22:24:0216 Α. That's right. 22:24:0617 Q. Is there any type of surgery that you're 22:24:1018 specializing in, or limited to, or do you participate 22:24:161 9 in anesthesia for any and all surgeries as they come? Any and all surgeries as they come, by 22:24:2020 Α. 22:24:2421 and large. I do specialize somewhat in receiving and 22:24:3022 taking care of patients with orthopaedic and 22:24:3223 neurological injuries. However, the way our OR 22:24:382 4 schedules are set up is that you're rotated around to 22:24:4025 all areas with one exception, actually two

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exceptions We have a segarate pepiatric grovp that	takes care of chiloren wno our caroiac grogo which	is busically for coronary artery bxpass grafts wt	Cetera that's a separate grown	D Open heart?	A Open heart	D Okey what percentage of your time is	inwolw¤µ in OB surg¤ry?	A. Fifteen percent at the most.	D What Derce tage of your patients would	you gay hawe ha⊅ carpiac complications ewen tho gh	they're not having open heart surgery, they're in	there for anothe r eason?	► Oh, at wanperbilt \$0 to 70 percent of the	petients eill have cerpiac comorpidities	D >nd these are patients who ultimately Do	have surgery?	A. They will.	D Brforr I get into that in grrater Deto l	I'd like to finish up on your credentials. I have	notro Your some 42 øu2lications as of 1999 or	whenever this Cw was printep, and I pon't see	anything spec fically on the subject of anesthesia	A No.	Q Okay	CLEETON DAVIS COURT REPORTERS, LLC. 21 200 4TH AVENUE N. NASHVILLE, TN 37219 615-726-2737
2 Z :24:42 1	2 2 :24:46 2	2 Z :24:54 3	2 Z :25:00 4	2 z :25:00 5	2 z :25:02 6	2 Z :25:02 7	2 Z :25:08 8	2 z :25:12 9	2 Z :25:1810	2 2 :25:2011	2 2 :25:2612	22:25:3013	2 2 :25:3014	2 z z 5 3815	2 z z 5 4416	2Z Z5 4617	2 z z 5 4618	2 z z s sel 9	2 z :25:5820	2 2 :26:0221	2 2 :26:0822	2 z :26:1423	2 z :26:1824	2 z :26:1825	

22:26:20 1 That hasn't been my area of research. Α. 22:26:24 2 0. How would you characterize your area of 22:26:26 3 research? 22:26:28 4 Α. Well, heretofore, my area of research was 22:26:30 5 as a basic scientist looking at neurobiology of the 22:26:40 6 hypothalamus, but when you become a new assistant 22:26:48 7 professor, you have to find your way in terms of what 22:26:54 8 your research is going to be, what's available in 22:26:56 9 terms of the resources of the institution to provide, 22:27:0010 and so I have systematically moved into doing clinical research. 22:27:0411 22:27:0612 Ο. Okay. You've not done any publications 22:27:081 3 in the field of cardiology either? 22:27:101 4 I have not. Α. 22:27:1215 Ο. So that you're not recognized as a 22:27:1616 national authority in the field of anesthesia or 22:27:1817 cardiology? 22:27:2018 No, I'm not. Α. 22:27:5219 Ο. How often have you consulted in 22:27:5420 medicolegal matters such as this? 22:27:5821 How often? Α. 22:27:5822 Q. Yes. 22:28:002 **3** This is my first time. Α. 22:28:0424 So this is the first time you've even Q. 22:28:0625 written a report?

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A. That hasn't been my area of research.
Q. How would you characterize your area of
research?
A. Well, heretofore, my area of research was
as a basic scientist looking at neurobiology of the
hypothalamus, but when you become a new assistant
professor, you have to find your way in terms of what
your research is going to be, what's available in
terms of the resources of the institution to provide,
and so I have systematically moved into doing
clinical research.
Q. Okay. You've not done any publications
in the field of cardiology either?
A. I have not.
Q. So that you're not recognized as a
national authority in the field of anesthesia or
cardiology?
A. No, I'm not.
Q. How often have you consulted in
medicolegal matters such as this?
A. How often?
Q. Yes.
A. This is my first time.
Q. So this is the first time you've even
written a report?

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94 0	11 + + + + + + + + + + + + + + + + + +
2	
2 z z ≋ 08 2	Q what was the subject of the other report?
2 z z^B 12 3	ש It was on I µon't reme∺Ωer the µetails
2 z z[≋] 1 6 4	Decause there was nothing really to De Done It was
2 z 2 ^B 22 5	an intraoperative incident with a lost airway, if I
2 z z[≉] 28 6	remember correctly I'D hawe to go Dack to my
2Z 2 ^B B0 7	records.
2 z 2 [€] 32 8	Q. Did that case go to trial?
₂z 2 34 g	A. No, it has not.
≅ 2 z z B410	p App you pip not giue a peposition?
в 2 Z Z в611	A I pip not giue a peposition in it
в 2 2 д в812	Q. And this is the first time you have?
≥z 2 4013	A. Yes.
2 z z 4014 #	D wow is it that r ou camp to Dp cally upon
2 Z z 4415	in this CERAM to Drowide an op nion?
2z 2 5016	A Donna Kolks haw contartew Kewin zlarkson
2 Z Z 5417	who was my immep ate superwisor at the time, and
2 z z 0018	Ke w an Clarkson referre v the case to me
2Z z 0819	p What is the reason to your knowleDge,
2 z 2 _b 1020	why wr Clartson wid ot hanwle the case himself?
2 z 2 _B 1621	A we widn't vescribe that I wiwn't ask
2 z 2 _b 2222	him. He sai D, ' K¤n, Do you w¤⊡t to tak® a look at
2 z z e z ⁴ 23	this case?" I said, "Fine."
2 z z b 2624	Q. Did he write an opinion?
2 z zb z ⁸ 25	A. He did not.
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22:29:28 1	Q. Did he express any opinion?
22:29:30 2	A. He did not.
22:29:32 3	Q. Did he tell you that this was something
22:29:34 4	that he didn't want to get involved in for some
22:29:36 5	reason?
22:29:36 6	A. He did not. I don't think he actually
22:29:38 7	even looked at the records. I don't think the
22:29:40 8	records were available. Dr. Clarkson has since moved
22:29:42 9	to Ireland, where he's originally from, and he's now
22:29:4610	the Director of a critical care unit there.
22:29:5211	Q. Okay. And do you know if Dr. Clarkson is
22:29:5812	a physician who advertises in any way to offer his
22:30:0213	services as a medical expert?
22:30:0414	A. I don't know if he does. I don't think
22:30:061 5	he does. In fact, I'm sure that he doesn't.
22:30:12 <u>1</u> 6	Q. Do you advertise?
22:30:1217	A. I do not.
22:30:16 <u>1</u> 8	Q. The other case that you're handling, is
22:30:1819	that for the plaintiff or the defendant?
22:30:2220	A. That was for the plaintiff, I believe.
22:30:2621	Q. Have you ever been engaged on behalf of a
22:30:2822	defendant?
22:30:2823	A. I have not.
22:30:3224	\mathbb{Q} . I should ask you also, what is your
22:30:3625	hourly rate for deposition.

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22:29:28 <u>]</u>	Q. Did he express any opinion?
22:29:30 2	A. He did not.
22:29:32 3	Q. Did he tell you that this was something
22:29:34 4	that he didn't want to get involved in for some
22:29:36 5	reason?
22:29:36 6	A. He did not. I don't think he actually
22:29:38 7	even looked at the records. I don't think the
22:29:40 8	records were available. Dr. Clarkson has since moved
22:29:42 9	to Ireland, where he's originally from, and he's now
22:29:4610	the Director of a critical care unit there.
22:29:5211	Q. Okay. And do you know if Dr. Clarkson is
22;29:5812	a physician who advertises in any way to offer his
22:30:02 <u>1</u> 3	services as a medical expert?
22:30:04 <u>1</u> 4	A. I don't know if he does. I don't think
22:30:0615	he does. In fact, I'm sure that he doesn't.
22:30:1216	Q. Do you advertise?
22:30:12 <u>1</u> 7	A. I do not.
22:30:1618	Q. The other case that you're handling, is
22:30:1819	that for the plaintiff or the defendant?
22:30:2220	A. That was for the plaintiff, I beiieve.
22:30:2621	Q. Have you ever been engaged on behalf of a
22:30:2822	defendant?
22:30:2823	A. I have not.
22:30:322 4	Q. I should ask you also, what is your
22:30:3625	hourly rate for deposition.

22:30:38 1 250. Α. 22:30:48 2 Q. In the course of your review of this 22:30:48 3 case, what information and data was provided to you? 22:30:54 4 Donna Kolis provided me with the Α. 22:30:58 5 patient's immediate records from Amherst Hospital, 22:31:02 6 her medical chart from her previous hospitalizations, 22:31:08 7 as well as correspondence with a number of expert 22:31:12 8 witnesses, et cetera, sought by you and, I guess, 22:31:16 9 other parties, as well as two depositions, one of 22:31:2210 Dr. Bartulica and one of Dr. Celerio, and one chest 22:31:3411 x-ray, and I think that's it. 22:31:3812 Q. I have a copy of your report of May 31st, 22:31:4413 2001. Have you prepared any other reports? 22:31:481 4 May 31st. Let me see. Yes, I have. Α. Ι 22:32:181 5 prepared a preliminary report. 22:32:2216 Q. May I see it, please? 22:32:2417 Sure. See if I can find it. Α. 22:32:2818 MS. TAYLOR-KOLIS: Let me look 22:32:2819 through there. Maybe you just skipped it. 22:32:3020 Here it is. Α. 22:32:3621 MS. TAYLOR-KOLIS: Hi, Joe. You 22:32:3622 still with us? 22:32:3823 MR. FARCIONE: I'm here. I've got 22:32:3824 the mute on. 22:32:4025 MS. TAYLOR-KOLIS: Okay.

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22:32:42 1	A. All right.
22:32:44 2	MR. RISPO: No fair doing any other
22:32:46 3	work.
22:32:46 4	A. This is the May 31st. This is the
22:32:48 5	preliminary report which is my copy. Donna would
22:32:54 6	have the original copy.
22:33:24 7	Q. (BY MR. RISPO) By the way, are you ACLS
22:33:28 8	certified?
22:33:28 9	A. I am.
22:33:2810	Q. When did you receive your certification?
22:33:3011	A. We renew our certification every two
22:33:3212	years. The last one was last year.
22:33:3413	Q. And when did you first receive it?
22:33:3614	A. Oh, I first received it we we start
22:33:4015	becoming ACLS certified nowadays in internship, so I
22:33:4216	took ACLS in internship.
22:33:4617	Q. When was that?
22:33:4618	A. That would have been in '91 to '92,
22:33:5019	and and so we every two years you have to
22:33:5620	recertify.
22:34:1021	Q. For the record, let me indicate that
22:34:1222	you've handed me two undated letters. I presume that
22:34:1823	is because of the computer?
22:34:2224	A. That's right, and Ms. Kolis will have the
22:34:2425	dated copies.
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22:34:26 1	MR. RISPO: And I wonder if we can
22:34:28 2	establish the date.
22:34:34 3	MS. TAYLOR-KOLIS: Let me get my
22:34:34 4	briefcase. Let me see if I have those with me. It
22:34:44 5	predated the lawsuit, that much I know for sure,
22:34:46 6	so let's see. 1 believe, okay, because I've got
22:34:56 7	my computer copy, I don't have my hard copy, 5-18,
22:35:02 8	2000, even though I'm not testifying, but I think
22:35:04 9	that's accurate.
22:35:0610	Q. (BYMR. RISPO) Would that square with
22:35:0811	your recollection?
22:35:0812	A. Yes, that's about right,
22:35:0813	Q. Okay.
22:35:1014	A and 1 can check on my if it
22:35:14 <u>1</u> 5	becomes Donna will have
22:35:1616	THE WITNESS: Do you have a fax
22:35:18 ₁ 7	copy?
22:35:1818	MS. TAYLOR-KOLIS: Yes.
22:35:2419	THE WITNESS: Oh, yes. Well, that's
22:35:2420	the date.
22:35:2421	MS. TAYLOR-KOLIS: Okay.
22:35:2622	THE WITNESS: Okay.
22:35:262 3	Q. (BYMR. RISPO) The fax copy shows
22:35:3024	MS. TAYLOR-KOLIS: 5-18.
22:35:3025	A. Yes.
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22:35:32 1 Q. (BYMR. RISPO) Okay. 22:35:32 2 Α. And that was faxed from my house. 22:35:52 3 Q. (BY MR. RISPO) While I'm reviewing these 22:35:54 4 two letters, I'll ask the reporter to mark them as 22:35:56 5 Exhibits 2 and 3. 22:36:06 6 (Deposition Exhibits 2 and 3 22:36:08 7 marked.) 22:38:20 g Q. (BY MR. RISPO) At the time -- at the 22:38:34 g time when you wrote your first report, Doctor, in May 22:38:401 0 of 2000, you did not have the benefit of the 22:38:4211 deposition testimony of either Dr. Bartulica or 22:38:461 2 Dr. Celerio; is that correct? 22:38:501 3 Α. That is correct. 22:38:501 4 Ο. You did not have either the benefit of 22:38:5215 any of the reports of the defendants' experts, 22:38:5616 including the pathologist, Dr. Mendelsohn, --22:39:0017 That's correct. Α. 22:39:0218 Ο. __ and you did not have the reports of 22:39:047 9 Drs. Kravitz and Watts. Have you even seen 22:39:1020 Drs. Kravitz' or Watts' reports? 22:39:1421 Α. Dr. Watts --22:39:1422 MS. TAYLOR-KOLIS: Who is Dr. Watts? 22:39:1673 Α. Yes. I don't know Dr. Watts. 22:39:1824 Q. (BY MR. RISPO) I received a report from 22:39:2025 Mr. Farcione about a week or 10 days aqo.

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22:39:26 1 MS. TAYLOR-KOLIS: Joe? Hello. 22:39:26 2 Joe? 22:39:26 3 MR. FARCIONE: It was sent to you, 22:39:28 4 Donna, with a carbon copy to Ron Rispo. 22:39:30 5 MS. TAYLOR-KOLIS: And when did you 22:39:32 6 mail that report? 22:39:34 7 MR. FARCIONE: Maybe two weeks ago. 22:39:38 8 MS. TAYLOR-KOLIS: I'm going to 22:39:38 9 represent to you that I have not seen a report from 22:39:421 Dr. Watts, and I know who Dr. Watts is. 22:39:4411 MR. EARCIONE: The only thing he's talking about is -- well, he's talked a little about 22:39:4612 22:39:5013 the standard of care, but it's mainly proximate cause 22:39:5414 which, I think, is not going to be an issue in the 22:39:5615 case based on our conversation. 22:39:5816 MR. RISPO: I've just handed a copy 22:40:0017 of Watts' report to Donna. 22:40:0218 MS. TAYLOR-KOLIS: It's dated August 22:40:061 9 26th. 22:40:0820 MR. FARCIONE: It should have gone 22:40:0821 out to you that day. 22:40:1022 MS. TAYLOR-KOLIS: The cover letter 22:40:1023 to Ron is August 28th 22:40:1824 Q. (BY MR. RISPO) In any event, --22:40:2025 MS. TAYLOR-KOLIS: In any event,

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22:40:22 1 we've never seen this report. 22:40:24 2 Q. (BY MR. RISPO) How about Dr. Kravitz, 22:40:24 3 Doctor? Have you seen his --22:40:26 4 Yes, I've seen his. Α. 22:40:30 5 Q. Okay. 22:40:30 6 MR. FARCIONE: You have seen 22:40:30 7 Dr. Kravitz' report, Donna? 22:40:32 8 MS. TAYLOR-KOLIS: Yes, absolutely. 22:40:32 9 MR. RISPO: Okay. 22:40:3410 Q. (BY MR. RISPO) At the time when you 22:40:3611 wrote your original report, you were not aware of the 22:40:4412 cause of death; is that correct? 22:40:481 3 I was not aware of her underlying Α. 22:40:521 4 pathophysiological process. 22:40:521 5 Q. And, to your understanding, what is her 22:40:5816 underlying pathophysiological process? 22:40:5817 She had amyloidosis, primary amyloidosis. Α. 22:41:0218 And when you wrote your latest report May Q. 22:41:061 9 31st of 2001, you were still not aware of her 22:41:1020 underlying pathophysiological condition? 22:41:1421 That's correct. Α. 22:41:2022 Q. Does the fact that she had amyloidosis 22:41:247 3 affect your conclusions in this case in any respect? 22:41:2824 No. Well, it provides me with an Α. 22:41:3425 explanation, but as to my ascertation -- my decision

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22:41:40 1 on whether the standard of care was breached in 22:41:44 2 performance of the anesthesia that day, no, that 22:41:48 3 doesn't change.

22:41:48 4 Well, let me break down my guestion into Ο. 22:41:52 5 two parts. I gather from your statement that you 22:41:54 6 still have the opinion that Dr. Celerio failed to 22:41:58 7 meet the standard of care. My question, however, for 22:42:02 8 this purpose, is whether the information about her 22:42:08 9 amyloidosis changes your opinion as to the cause of 22:42:1410 death.

A. No. It doesn't, actually. The proximal,well -- it does not, not on a cause and effect basis.

Q. What information do you have -- what basis do you have to say that the care of Dr. Celerio contributed in a material respect to the cause of death?

A. Could you repeat that?

22:42:1811

22:42:2212

22:42:321 3

22:42:341 4

22:42:4215

22:42:4616

22:42:4617

22:42:4818

22:42:5019

22:42:5220

22:42:5821

Q. What information -- or what is the basis for your opinion that the care provided by Dr. Celerio caused or contributed to the cause of Mrs. Armstrong's death?

22:43:0022A.Well, it's -- there's a twofold answer to22:43:0223that. One is the general concept of what standard of22:43:1224care is, and that is honed by -- formed by what's in22:43:1825the medical literature, what is deemed the broad

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responsibilities of an anesthesiologist as guided by 22:43:20 1 22:43:24 2 the dictums of both the ASA and the ABA, and my 22:43:34 3 experience -- my personal experience in the peer 22:43:36 4 review process that we undertake at Vanderbilt. 22:43:38 5 Q. Well, let me break the question down 22:43:40 6 because I have a feeling we're not communicating 22:43:44 7 effectively. My question is is it your opinion that 22:43:46 8 the care provided by Dr. Celerio caused or 22:43:50 g contributed to cause Mrs. Armstrong's death? 22:43:5410 Absolutely. Α. 22:43:5611 Ο. Okay. Now, my next question is do you 22:44:0012 have any way or any evidence to suggest that 22:44:047 3 Mrs. Armstrong, given her underlying condition of 22:44:101 4 amyloidosis, could have survived this surgery under 22:44:161 5 any circumstances'? 22:44:2016 Absolutely. Well, I can't say Α. 22:44:2417 absolutely. I can say she's at significant risk 22:44:2818 undergoing a surgical procedure. 22:44:341 9 Ο. In your report of May 31st, you said you 22:44:3820 could not predict with certainty but you think the 22:44:4221 patient could have survived the hypertensive episode 22:44:4622 if appropriate therapy had been instituted in a 22:44:4823 timely fashion. You had some hesitation or doubt at 22:44:5424 that time as you wrote that report even before you 22:44:5625 knew of her condition of amyloidosis.

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22:45:02 1	MS. TAYLOR-KOLIS: I'm going to
22:45:02 2	object. You don't know if he had reluctance or
22:45:04 3	hesitancy. You're interpreting something from his
22:45:08 4	language where he said he couldn't predict with
22:45:12 5	certainty.
22:45:12 6	MR. RISPO: Well, that's what the
22:45:12 7	language says, and I'm going to presume the use of
22:45:16 8	English language by a learned professional.
22:45:20 9	Q. (BYMR. RISPO) Doctor, could you explain
22:45:2010	what you meant at the time when you wrote the letter
22:45:2211	of May 31st, 2001 and stated that you could not
22:45:2612	predict with certainty but you thought the patient
22:45:3013	could have survived?
22:45:3014	A. If I remember that can I look at that?
22:45:34 ₁ 5	Q. Sure.
22:45:3416	A. If I remember that paragraph, it's in
22:45:3617	reference to the code. Let's see. Where are we?
22:46:1018	Okay. In that paragraph I'm referring to the
22:46:2019	treatment of the ensuing hypotensive episode, which
22:46:2820	is essentially when the patient was coded, and that
22:46:3021	relates to my criticism of how the code was handled,
22:46:3622	and doesn't relate I think you want to put it
22:46:382 3	in a broader context.
22:46:402 4	Q. Well., I guess what I'm asking you is if
22:46:4225	you weren't certain at that time whether she could

CLEETON DAVIS COURT REPORTERS, LLC. 33 200 4TH AVENUE N. NASHVILLE, TN 37219 615-726-2737 22:46:44 1 have survived, whether the new information now 22:46:50 2 available that her underlying condition of 22:46:52 3 amyloidosis was at least a contributing cause of 22:46:58 4 death, how is it that you can be more certain today 22:47:02 5 than you were at the time that you wrote this report 22:47:04 6 and before you were aware of that information? 22:47:08 7 Α. I can't be certain, and it's --22:47:20 8 22:47:20 9 22:47:2010 0. Okay. 22:47:2211 I'm reflecting. Okay. This is -- this Α. 22:47:361 2 is what I call a cascade failure which means you put 22:47:381 3 into motion a set of events that use up a patient's 22:47:461 4 physiological reserve, and that was the hypotensive 22:47:5215 episode that was initiated by induction. When not 22:47:5616 promptly fixed or reversed, then because our 22:48:0617 patient -- the patient had reduced physiological 22:48:1018 reserve, her chance of survival is lessened. Given 22:48:1819 prompt reversal of that problem, I think that that's 22:48:2420 survivable. 22:48:2621 Q. Well, --22:48:2622 Does that answer your question? Α. 22:48:2823 Q. I think I'm following you, but let me 22:48:3024 make sure. Let's start with amyloidosis. What is 22:48:3425 your understanding of that condition? Could you
22:48:36 1 define it for us? 22:48:38 2 Α. It's a multisystem replacement of 22:48:40 3 muscular tissue with amyloid deposits that render 22:48:46 4 various organs less functional. In this case this 22:48:50 5 patient -- her anterior wall was replaced with dense 22:48:56 6 fibrous amyloid deposits, and so it's an 22:49:00 7 unremitting -- particularly, in this case, I presume 22:49:04 8 that she had primary amyloidosis, as opposed to other 22:49:12 9 variants of it, that foreshortens her life. Q. Would it be fair or accurate to state 22:49:1810 22:49:2211 that the deposits you're talking about are calcium 22:49:2612 deposits? I don't know that. That's not my 22:49:2813 Α. 22:49:321 4 understanding. 22:49:341 5 0. Would these deposits that you refer to 22:49:3616 interrupt the electrical conduction of the muscle 22:49:4017 fiber? 22:49:401 8 Α. That's well known. 22:49:401 9 Q. Okay. That's well known. 22:49:4220 Α. 22:49:4421 Q. And reduces contractibility? Not necessarily. In fact, systolic -- if 22:49:4822 Α. we're talking about the heart -- now we're talking 22:49:5223 22:49:5674 exclusively about the heart, correct? 22:49:5825 Q. Yes.

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22:50:00 1 Α. In fact, early on systolic function can 22:50:02 2 be preserved as opposed to diastolic function. 22:50:04 3 Q. How about diastolic function? 22:50:06 4 That's reduced, and therein lies the Α. You have a stiff -- think of , it as a 22:50:10 5 problem. 22:50:14 6 you have to fill the pump up, and you have a nice 22:50:18 7 easy balloon or a very stiff balloon, but in order 22:50:22 8 for the system to pump effectively, you have to get 22:50:26 9 the right amount of volume in there, and so they 22:50:3010 have -- they have a very stiff balloon. They have a 22:50:327 1 stiff ventricle. 22:50:341 2 So it interrupts the electrical Q. 22:50:3613 conduction? 22:50:361 4 Α. And those are different problems, as you 22:50:3815 understand. You have conduction abnormalities, okay, 22:50:4416 but you also have abnormalities of relaxation. 22:50:4817 That's diastole. 22:50:5018 0. Okay. And it stiffens the muscle of the 22:50:541 9 heart? 22:50:5420 That's right. Α. 22:50:5421 And it reduces diastolic function? Ο. 22:50:5822 That's right. Α. 22:50:5823 0. The reduction of electrical conduction 22:51:0224 can lead to arrhythmic events, can it not? 22:51:062 5 It can -- it certainly can. Α.

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22:51:06 1 Q. And, in fact, in this case, according to 22:51:08 2 the autopsy and death certificate, her cause of death 22:51:14 3 was an arrhythmic event? 22:51:20 4 Well, on autopsy you can't determine that Α. 22:51:22 5 because it's a physiological determination. Autopsy 22:51:24 6 is an anatomical determination. She did have 22:51:28 7 conduction system disease. 22:51:32 8 Q. Do you disagree with the opinions stated 22:51:34 9 in the autopsy? 22:51:3610 Α. Let me review the autopsy report. 22:51:3811 MS. TAYLOR-KOLIS: Parenthetically, 22:51:4012 your expert disagreed with it, too, so -- here you 22:51:467 3 It's in the back of the record. qo. 22:51:5814 (BY MR. RISPO) How about the death 0. 22:52:0015 certificate? Maybe I was thinking about that. Take 22:52:0016 a look at that. 22:52:0017 MS. TAYLOR-KOLIS: It's actually in 22:52:0218 the autopsy. The death certificate that you have 22:52:061 9 says "Pending," and the death certificate also 22:52:1220 doesn't say --22:52:1421 Cardiac arrhythmia --Α. 22:52:1422 MS. TAYLOR-KOLIS: Right. There we 22:52:1823 go. Okay. 22:52:1824 And, in fact, that happened Α. 22:52:189 5 physiologically, but --

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22:52:20 1 Q. (BY MR. RISPO) She did have arrhythmia? 22:52:22 2 Yes, she had arrhythmia entropitably. Α. 22:52:30 3 She went into a bradycardic rhythm. 22:52:30 A Q. And the death certificate lists that as 22:52:32 5 the immediate cause of death? 22:52:36 6 Α. No. Let's see. Well, this is a matter 22:52:40 7 of public record, so probable cardiac arrhythmia. 22:52:48 8 Q. Is that the immediate cause of death? 22:52:50 9 Α. No, that's -- that's a -- I don't know 22:52:5010 how --22:52:5011 MS. TAYLOR-KOLIS: In Ohio this is 22:52:561 2 how we do it. 22:52:5613 THE WITNESS: Okay. 22:52:561 4 Probable cardiac arrhythmia. Α. 22:52:5815 (BYMR. RISPO) Okay. Do you read that 0. 22:53:0616 to mean that that was the cause of her death? 22:53:1017 Α. Her arrhythmia. Now, do you want to say 22:53:161 8 that's the proximal cause? 22:53:1619 Well, --Q. 22:53:1820 Why did -- why did one develop an Α. 22:53:2021 arrhythmia in the first place? I'm sorry. 22:53:2222 Okay. Well, that's what we're getting Q. 22:53:2423 to, --22:53:242 4 Okay. Α. 22:53:242 5 Q. -- and I was going to ask you if -- if we CLEETON DAVIS COURT REPORTERS, LLC. 38

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22:53:26 1 agree that she had an arrhythmia at the time of death 22:53:28 2 which was listed, at least by the death certificate, 22:53:34 3 as the immediate cause of death, --22:53:38 4 Yes, but the hypotension preceded the Α. 22:53:40 5 arrhythmia. 22:53:42 6 Q. Okay. I understand that. 22:53:42 7 Α. Okay. 22:53:44 8 Q. My -- my next question is --22:53:44 g Α. And so --22:53:4610 -- is the -- is the arrhythmia that Ο. 22:53:4811 caused -- was the immediate cause of death caused by 22:53:5212 her condition of amyloidosis? 22:53:561 **3** Α. No. 22:53:581 4 What is your interpretation? Ο. 22:54:0215 Amyloidosis put her in harms way, Α. 22:54:0616 absolutely. She has a thick, big ventricle. She was 22:54:1417 given a full size induction dose of propofol which 22:54:1818 has known deleterious cardiovascular effects. That 22:54:2219 dropped her blood pressure dramatically. Her 22:54:2420 diastolic blood pressure became very low. The 22:54:2821 problem with that is that you only profuse the left 22:54:3422 ventricle during diastole, and so the ventricle got 22:54:3823 ischemic because of that, and then you develop 22:54:4024 arrhythmias, and -- and that's how I look at the 22:54:5025 This was not a spontaneous -- her blood picture.

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22:54:52 1 pressure wasn't normal and she developed a 22:54:52 2 spontaneous arrythmia. That didn't happen. Her 22:54:56 3 blood -- the bottom dropped out of her blood 22:54:58 4 pressure. 22:54:58 5 Ο. Would it be accurate to say that her 22:55:00 6 ability to respond to the code or to recover from her 22:55:06 7 low blood pressure was reduced by her underlying 22:55:12 8 condition of amyloidosis? 22:55:14 9 Α. I would agree with that. 22:55:1610 Q. Okay. 22:55:1611 I -- I would agree with that fully. Α. Would it be --22:55:1812 Q. 22:55:187 3 Α. I'm sorry. 22:55:201 4 Q. I didn't want to interrupt your answer. 22:55:2215 Well, as I said earlier, this is a Α. 22:55:2416 patient that shouldn't have gone to surgery in the 22:55:261 7 first place. She's -- her amyloidosis put her in 22:55:3218 harms way. She had reduced physiological reserve to 22:55:341 9 respond to challenges such as hypotension. You and I 22:55:4020 would respond much better than that. We can increase 22:55:4221 our heart rate. Unfortunately, in this kind of a 22:55:4622 situation, increased heart rate is going to do just 22:55:482**3** the opposite thing for you because you've got to fill 22:55:5274 during your diastole. Diastole shortens when your 22:55:5425 heart increases, and so you don't fill.

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22:55:58 1 Q. Have you completed your answer? 22:56:02 2 Α. Yes. 22:56:02 3 Q. Okay. Would it be fair to say then but 22:56:04 4 for her amyloidosis condition she would have had a 22:56:08 5 better chance of responding to this resuscitative 22:56:12 6 effort? 22:56:18 7 Α. I would agree with that. It definitely 22:56:22 8 makes it harder to resuscitate her. Can I get some 22:56:32 g more coffee? Q. Oh, please do. 22:56:341 () MS. TAYLOR-KOLIS: I'll get it. 22:56:361 1 Do 22:56:381 2 you want me to? 22:56:401 3 THE WITNESS: No, no, that's fine. 22:57:0414 (Recess taken.) 22:57:0415 Q. (BY MR. RISPO) Doctor, what experience 22:57:0816 have you had in treating patients with amyloidosis or 22:57:1217 amyloid heart conditions? 22:57:1618 Α. I've had two patients I've had to put to 22:57:181 9 sleep with that, looking back, and none were as an attending. They were all as residents -- as a 22:57:2220 22:57:2621 resident. Q. What were the circumstances -- what type 22:57:3222 22:57:3423 of surgery in those two patients? 22:57:3624 Α. One was a joint surgery and one was, I 22:57:4225 don't remember, some general abdominal case.

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22:57:46 1 Q. The joint surgery was elective? 22:57:52 2 I believe they were both -- you know, I Α. 22:57:56 3 don't remember all the details. This is a while 22:57:58 4 back. 22:58:00 5 Q. So at least one of them was elective? 22:58:04 6 Α. I believe so. 22:58:04 7 Q. But you don't remember the abdominal? 22:58:08 8 Α. I don't -- I don't -- I don't remember 22:58:08 Q the specifics of -- really, the specifics of either 22:58:1210 of them, much. 22:58:1411 Ο. And neither of these were cases in which 22:58:1812 you were the primary attending? 22:58:201 3 No, no, this was as a resident. I have Α. 22:58:221 4 not done any cases of amyloid as an attending. 22:58:2615 Q. Is amyloid a rare condition? 22:58:2816 Α. Relatively rare, thankfully. 22:58:3217 Q. Have you ever encountered a patient with 22:58:3618 amyloidosis that you refused to take to surgery? 22:58:381 9 Α. No. 22:58:5020 Q. Of those two patients that were taken to 22:58:5221 surgery, in your residency, with amyloidosis, did 22:58:5822 they survive? 22:58:5823 Both of them survived. Knock on wood. Α. Ι haven't had any patients die in the operating room. 22:59:0624 22:59:1025 Q. That was my next question.

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22:59:12 <u>1</u>	A. Well, say with the exception of trauma
22:59:16 2	
22:59:18 3	trauma center and so we'll have patients come in who
22:59:22 4	are essentially in extremis and dead for all intents
22:59:28 5	and purposes, and we try to resuscitate those
22:59:32 6	patients, and we do the best we can.
22:59:34 7	Q. Okay.
22:59:34 8	A. But, no, I have not.
22:59:36 9	Q. So except for trauma patients, you've
22:59:3810	never had a patient die in surgery?
22:59:4011	A. No.
22:59:4212	Q. How many have you had die in surgery that
22:59:4413	were trauma patients?
22:59:4814	A. One or two. I can't give you an exact
22:59:50 ₁ 5	number.
22:59:5216	Q. When you were the primary attending?
22:59:5417	A. Yes. It's very rare. I mean, it's not
22:59:56 <u>1</u> 8	rare that trauma patients die. You'll get I mean,
23:00:0419	they come in extremis.
23:00:0620	${\mathbb Q}$. Of those two who died, or one or two that
23:00:1021	died, were either of them in congestive heart
23:00:1422	failure?
23:00:1423	A. That wasn't their primary problem.
23:00:162 4	Q. Or ischemic heart disease?
23:00:2025	A. No. I wouldn't presume that. This is
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23:00:22 1	emergent surgery where we have very little
23:00:24 2	information on the patient's, really, past medical
23:00:28 3	history. They come in after a multivehicle accident,
23:00:32 4	some kind of ballistic trauma, et cetera, and we're
23:00:36 5	left with, really, damage control. They stop
23:00:42 6	bleeding from major vessels, the surgeons do that,
23:00:46 7	and we resuscitate at the same time.
23:00:48 8	Q. I understand. What apart from the
23:00:54 9	trauma patients, can you tell me, have you ever taken
23:00:5610	a patient to surgery with congestive heart failure?
23:01:0011	A. Active congestive heart failure?
23:01:0212	Q. Inactive.
23:01:0413	A. Yes.
23:01:04 <u>1</u> 4	Q. And
23:01:04 <u>1</u> 5	A. As as in stable?
23:01:06 <u>1</u> 6	Q. Stable.
23:01:0617	A. Yes.
23:01:0818	Q. Inactive.
23:01:1019	A. Absolutely. I've taken patients to
23:01:1220	surgery with EF's of 15 percent.
23:01:1621	Q. Ejection fraction?
23:01:1822	A. Ejection fraction of 15 percent.
23:01:202 3	Q. Okay. And in this case the records
23:01:222 4	indicate, if if I understand correctly, that
23:01:2425	Mrs. Armstrong had 40 percent 47 percent.
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23:01:26 1 Forty-seven percent, right. So she had Α. 23:01:28 2 essentially preserved diastolic function. 23:01:34 3 Q. And of those patients you have taken into 23:01:36 4 surgery with inactive congestive heart failure, they 23:01:40 5 all survived? 23:01:40 6 Α. Yes. 23:01:40 7 Ο. Same question. Have you ever taken a 23:01:42 8 patient in with remote ischemic heart disease? 23:01:48 9 Α. Absolutely. All the time. 23:01:5010 And they've survived? 0. 23:01:501 1 Α. Yes. 23:01:521 2 Ο. And is it unusual for a patient to have 23:01:561 3 silent MI's? 23:01:581 4 No, I don't think it is, actually. Α. 23:02:041 5 0. Have you ever taken a patient to surgery 23:02:0416 who had a prior silent MI? 23:02:1017 Α. By history, yes. Have I taken a patient 23:02:161 8 to surgery with a silent MI that hadn't been 23:02:201 9 further -- further evaluated? No. If this is the 23:02:2420 first instance of a silent MI, the patient didn't 23:02:2821 know about it, hasn't been properly evaluated for 23:02:3022 other cardiovascular disease, in particular other 23:02:3623 myocardium at risk, they're not going to surgery. 23:02:3824 What do you mean by "evaluation"? Ο. 23:02:4025 What -- what is entailed, in the course of your

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23:02:44 1 normal practice, in evaluating a patient? 23:02:46 2 Preoperative evaluation? Α. 23:02:48 3 Ο. Yes. 23:02:48 4 Preoperative evaluation entails obtaining Α. 23:02:52 5 a complete history and physical with a review of 23:02:56 6 systems, meshing that with the surgery that's going 23:03:02 7 to be -- that's going to go on, anticipating what the 23:03:04 8 magnitude of the physiological trespass in that 23:03:08 9 surgery is going to involve, and then decide what 23:03:1010 further risk assessment you need for that patient. Α 23:03:1411 healthy, young, 24-year-old that's going to undergo 23:03:1812 a -- even major surgery probably needs little further preoperative evaluation other than checking 23:03:2413 electrolytes and the things like that and being typed 23:03:261 4 23:03:301 5 and crossed. The patient with multisystem disease 23:03:3416 needs a much more thorough evaluation to -- to 23:03:361 7 actually determine what their risks are so you can 23:03:401 8 give proper informed consent. 23:03:4019 Who does the history and physical for 0. 23:03:4220 your cases? 23:03:4221 They're done in two different ways. Α. For 23:03:4622 the perioperative patients, they're done by our nurse 23:03:5023 practitioners in our preoperative evaluation center, 23:03:522 4 and then residents and the attending physician will

^{23:03:58}2⁵ see the patient and further verify those details, and

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23:04:02 1 then decisions will be made about what needs to be 23:04:04 2 further done if the patient is -- is ready for 23:04:08 3 surgery based on what we think their comorbidities 23:04:12 4 are and we think we understand their risks, so at 23:04:16 5 that point I can give them the informed consent. 23:04:18 6 Who is -- did I understand you to say Ο. 23:04:20 7 earlier that the residents and attending physicians 23:04:22 8 are responsible to verify the details of a 23:04:24 9 patient's condition? 23:04:267 () That's correct. Α. 23:04:281 1 Ο. So it's not the anesthesiologist who does 23:04:301 2 that? 23:04:301 3 Well, the VPEC -- that will take place Α. 23:04:341 4 separately. Sorry. On the day of surgery -- that's 23:04:3615 in the preoperative clinic. On the day of surgery 23:04:401 6 the patients will come down to our holding room and 23:04:4217 it's the anesthesiologist's responsibility to verify 23:04:4878 that the information and the preoperative assessment 23:04:5019 is correct, decide in their own mind if, in fact, 23:04:5420 that patient is ready for surgery based on the 23:04:5621 information at hand. 23:04:5822 Ο. What is entailed in the verification by 23:05:0023 the anesthesiologist that those conditions -- whether 23:05:0424 they're correct? 23:05:0425 It entails looking at what medical Α.

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23:05:08 1	records are available in our electronic medical
23:05:12 2	records system, looking at the current VPEC
23:05:20 3	documentation, typically ECG's, if warranted,
23:05:26 4	pertinent laboratory data, and pertinent radiographic
23:05:32 5	data.
23:05:32 5	Q. Can you enlighten us what is VPEC?
23:05:32 7	A. Vanderbilt Preoperative Evaluation
23:05:34 8	Clinic.
23:05:36 9	Q. Is that the same thing as pre
23:05:3810	A. It's preop
23:05:4011	Q admission testing?
23:05:4012	A. Exactly. It's the same thing.
23:05:42 ₁ 3	Q. So, again, your statement was to review
23:05:4414	the medical records available and to review the test
23:05:46 ₁ 5	results in the PAT clinic?
23:05:5016	A. Exactly. Now, all that, stuff for us
23:05:5617	all that. stuff is available on line, so we can
23:06:0018	actually review that the night before surgery.
23:06:0419	Q. As an anesthesiologist, how often do you
23:06:0820	go beyond the medical records available and the test
23:06:122]	results in the PAT clinic? Let me Sack that up.
23:06:1822	Star', over with a question. Do you rely upon the
23:06:2223	accuracy of those medical records and test results in
23:06:282 4	the computer, and the Vanderbilt records, when you
23:06:342 5	routinely when you ~].eara patient for surgery?

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23:06:38 1 It depends on what my own review of Α. 23:06:42 2 systems reveals. 23:06:42 3 Q. Okay. 23:06:42 4 Α. And so --23:06:44 5 Q. Under what circumstances do you go 23:06:46 6 beyond, and what do you do? 23:06:48 7 Α. Well, if my review of systems with the 23:06:50 8 patient doesn't jibe with -- if my view of the 23:06:52 9 patient doesn't jibe with the preoperative 23:07:0010 evaluation, then further things have to be done to 23:07:0411 clear up the issues. Let's say the patient now 23:07:0812 describes, because they -- they didn't originally 23:07:121 3 describe, they have intermittent chest pain radiatrng 23:07:161 4 into the left arm or chest tightness here. I've qot 23:07:201 5 to further evaluate that. I'm not going to take that 23:07:2216 patient to surgery, unless it's emergent surgery that 23:07:241 7 has to be done, without further evaluating that. Q. If, however, your observations upon 23:07:301 8 23:07:3419 examining the patient jibe with those in the medical 23:07:3620 records available and the preadmission testing, then 23:07:4021 you would see no further need to inquire further? 23:07:4622 That's true. Now, my medical records Α. 23:07:5023 typically include detailed histories in our 23:07:5624 electronic system. 23:08:0025 0. What is the extent to which you do any

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23:08:04 1 independent examination of the patient? 23:08:10 2 Α. Could you rephrase that? 23:08:12 3 Q. There's got to be a better way. 23:08:14 4 MS. TAYLOR-KOLIS: Ask him if 23:08:16 5 performs a physical exam. 23:08:16 6 Α. In the preoperative evaluation -- do you 23:08:18 7 mean in the preoperative evaluation? 23:08:20 8 Ο. (BY MR. RISPO) Let me distinguish. 23:08:22 9 First of all, I know that preoperative testing would 23:08:261 () have already been done. 23:08:2611 That's right. Α. 23:08:2812 Q. My question is independent of that 23:08:301 **3** testing, what is the extent to which you conduct any 23:08:341 4 further examination. 23:08:361 5 Α. What kind of examination? A physical 23:08:3816 exam? 23:08:3817 Q. Any kind of examination before you clear 23:08:401 8 a patient. 23:08:401 9 Oh. All -- all the patients I see will Α. 23:08:4220 qet a -- a -- I will go over the details of their 23:08:4421 past medical history, their medications, their past 23:08:4822 surgical history, do a separate review of systems on 23:08:527 3 that, and then do a physical exam. Now, my physical 23:08:582 4 exam is going to be focused towards those issues that 23:09:0025 I'm most worried about which are always

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23:09:04 1 cardiopulmonary. Well, let's say it's a neuro 23:09:04 2 patient. I'm going to check -- do a -- a 23:09:10 3 neurological exam, et cetera. If it's an orthopaedic 23:09:10 4 patient with a potentially ischemic limb, I'll check 23:09:16 5 pulses. And so it's a focused exam about determining 23:09:16 6 what I think my problems are. 23:09:20 7 Q. Is it the responsibility of preadmission 23:09:22 8 testing to take into account the same history that 23:09:30 9 you're looking at or to obtain the same history that 23:09:3610 your looking at? 23:09:3811 Α. To some extent. 23:09:4012 Is it the responsibility of preadmission Ο. 23:09:421 3 testing to contact the attending physician and the 23:09:487 4 primary care physician? 23:09:481 5 Α. Not the primary care physician. We 23:09:5416 supervise the preoperative testing, we being 23:09:5617 anesthesiologists, and so within our group there are 23:10:0018 reference people. What I mean by reference, there 23:10:041 9 are people that, depending on the service that the 23:10:0820 patient is coming from, they'll call an 23:10:1021 anesthesiologist, an expert in that area, okay. And 23:10:1622 so if one of the preop -- if one of our nurses has 23:10:2023 some questions about a patient in the preop center, 23:10:2224 they'll call us and we'll have a phone consultation 23:10:2625 or we'll go see them if there's an issue.

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23:10:30] Q. Let me rephrase the question. Whose 23:10:32 2 responsibility is it, if any, to contact the primary 23:10:36 3 care physician if it is not the attending? 23:10:40 4 Α. The primary care physician in terms of 23:10:42 5 what? 23:10:44 6 Q. Internal medicine cardiology. 23:10:48 7 Α. To obtain consultation? 23:10:52 8 Q. Correct. 23:10:52 9 Α. To obtain consultation for further 23:10:541 () evaluation? 23:10:5611 Q. To obtain, first of all, a history on the 23:10:5812 patient. Where do they get the history? 23:11:0213 They elicit the history --Α. 23:11:0214 Q. From the patient? 23:11:041 5 Α. -- from the patient. 23:11:0416 Q. Okay. Does anyone have the duty to 23:11:0817 contact the primary care physician to obtain an 23:11:1218 independent history independent of what the patient 23:11:1219 conveys? 23:11:1620 Α. Those same nurses will do the same thing, 23:11:1821 Ο. Now, explain that for me. Are they 23:11:2222 getting it from the patient, or from the primary care 23:11:2423 physician, or both? 23:11:2624 Α. They get it from the patient. We will do 23:11:2825 an independent examination. Now, for instance, --52

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23:11:34 1 Q. Well, let's talk about history for the 23:11:36 2 moment. Okay? Who gets the history and from whom? 23:11:40 3 We take the history directly. Α. 23:11:42 4 Q. From whom? 23:11:44 5 Α. From the patient. 23:11:44 6 Q. Okay. And does anyone have the 23:11:46 7 responsibility to contact the primary care physician 23:11:50 8 to obtain the history? 23:11:52 9 Α. No. There's no explicit -- there's no 23:11:5810 explicit reason to do that. If we have -- if we're 23:12:0211 in a quandary about really what the patient is 23:12:0812 telling us or we need further clarification of their 23:12:12 3 medical condition, we can contact -- we'll contact 23:12:147 4 the primary care physician. 23:12:181 5 Ο. So then they rely principally upon the 23:12:2216 plaintiff -- the patient to provide an adequate 23:12:241 7 history? 23:12:2618 Α. That's correct. 23:12:3219 Q. Does the attending physician or the 23:12:3620 surgeon have any duty to contact the primary care 23:12:4021 physician for clearance? 23:12:4222 I can't speak to what the surgeon's Α. 23:12:4423 responsibilities are. 23:12:4624 Q. So you have no opinion on that? 23:12:5225 I do have an opinion. I think if people Α.

23:13:00 2	practice collaborative medicine.
23:13:02 3	Q. What do you mean by that?
23:13:06 4	A. They would all talk to each other.
23:13:06 5	Q. If there is a worry, and not otherwise?
23:13:10 6	A. Yes. I mean, in this situation the
23:13:18 7	primary care physician I don't know what
23:13:22 8	assuming the surgeon and the anesthesiologist thought
23:13:26 9	that they had an accurate history, there's nothing
23:13:2810	further that the primary care physician is going to
23:13:3211	add. He's not going to have real insight into the
23:13:3812	physiology of the perioperative period.
23:13:4013	Q. I'm sorry. I missed that. Who is not
23:13:4214	going to have insight?
23:13:4215	A. I don't think the primary care physician
23:13:4416	is going to have any real insight into the physiology
23:13:5017	of the perioperative period.
23:13:5218	Q. I'm going to ask you to assume, for the
23:13:5619	sake of this question my understanding of the
23:13:5820	records indicate that Mrs. Armstrong had several
23:14:0421	cardiac studies in the preceding six months under the
23:14:1022	direction of Dr. Richardson or consults from
23:14:162 3	Dr. Richardson.
23:14:162 4	A. That's correct. That's a matter of
23:14:1825	record.

23:14:18 1 Ο. Who has the duty to obtain the 23:14:22 2 information and the results of those cardiac studies? 23:14:26 3 Is it the nurses in PAT, is it the --23:14:30 4 The final responsibility rests with the Α. 23:14:32 5 anesthesiologist. 23:14:34 6 Ο. Who else has a duty to obtain that 23:14:38 7 history? 23:14:38 8 Α. I would think that the surgeon would as 23:14:40 g well. 23:14:4010 Q. And how about the preadmission testing 23:14:4211 doctors? 23:14:4412 Well, it's -- those aren't physicians. Α. 23:14:467 3 Those are nurses. 23:14:467 4 Q. Okay. How about them? Do they have a 23:14:501 5 duty to obtain the results of those cardiac studies? 23:14:5216 Α. If they were so directed by the people 23:14:5417 that supervise them. I presume that they don't 23:14:5818 operate independently. They're under the direction 23:15:0019 of a physician. 23:15:0020 0. The nurses that are in the PAT 23:15:0421 department, I understood you to say, work under the 23:15:0622 direction of the Department of Anesthesia? 23:15:0823 They do. Α. 23:15:1024 Q. So is it the responsibility of the 23:15:1275 doctors in the Department of Anesthesia then to

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23:15:14 1 obtain the history from the primary care physician? 23:15:20 2 If we had a -- if we had a patient --Α. 23:15:22 3 yes, we would do that. 23:15:26 4 0. Now, let's suppose that the 23:15:28 5 anesthesiologist is not aware of that information 23:15:32 6 and the patient doesn't provide that information in 23:15:36 7 the preadmission testing reports, but the surgeon is 23:15:42 8 aware of the fact that she has had a cardiac workup 23:15:48 9 by virtue of his contact with the primary care 23:15:521 () physician. Would it not then be the responsibility 23:15:5611 of the surgeon to obtain the details of that cardiac 23:16:0012 workup and provide it to the preadmission testing 23:16:0413 department and/or the anesthesiologist? 23:16:101 4 Is it his responsibility? I don't know Α. 23:16:1415 that it's his responsibility. Certainly, it would be 23:16:1816 prudent to do that. 23:16:2017 Ο. You used the term --23:16:2218 And here's my -- here's my view. Α. The 23:16:2219 anesthesiologist has an independent responsibility to 23:16:2820 accurately evaluate the patient. 23:16:3221 Q. We all agree on that. 23:16:3422 Α. Okay. 23:16:3423 Q. But the question 1s if the 23:16:3624 anesthesiologist has no information, but the surgeon 23:16:4025 does, that there is information out there at least to

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23:16:44 1 be obtained, isn't it the responsibility of the 23:16:46 2 surgeon to get that information and bring it in? 23:16:48 3 I would think that he would talk to the Α. 23:16:50 4 anesthesiologist about that, especially if it was 23:16:54 5 significant. 23:16:54 6 0. You used a term earlier, I didn't write 23:16:58 7 it down, in which you described the responsibility of 23:17:04 8 the physicians is to talk to each other. What did 23:17:04 9 vou --23:17:0810 Α. Collaborative medicine. 23:17:1011 Q. Collaborative medicine. Okay. 23:17:1212 And I must say I'm biased by my training. Α. 23:17:167 3 Mayo Clinic generated its -- its name in 23:17:201 4 collaborative medicine which is really nothing more 23:17:2415 than the physicians talking to each other. 23:17:261 6 Ο. It's -- it's good medicine. 23:17:2817 Α. Yes. 23:17:2818 Ο. Okay. 23:17:3019 MS. TAYLOR-KOLIS: If you need a 23:17:3220 break at any time, Doctor, we forgot to tell you, 23:17:3421 you're allowed to raise your hand and say you need a 23:17:3822 break. 23:17:4273 THE WITNESS: The last break I saw 23:17:4624 was -- off the record, 23:17:5025 MS. TAYLOR-KOLIS: The last break

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23:17:50 1 you saw was --23:17:52 2 THE WITNESS: In the deposition 23:17:54 3 where you had to go take a break. 23:17:56 4 MS. TAYLOR-KOLIS: Oh. That's 23:17:58 5 because the doctor's pager was going off. 23:18:00 6 0. (BY MR. RISPO) Doctor, I'd like to ask 23:18:02 7 you some questions based on your knowledge of the 23:18:04 8 record here. 23:18:04 9 Okay. Which record is that? We have Α. 23:18:0610 lots of records here. 23:18:0811 Q. Well, the collective record that you've 23:18:0812 seen --23:18:0813 Α. Oh, jeez. 23:18:101 4 -- in this case. They won't be 0. 23:18:121 5 difficult. I think they're key issues and you 23:18:1416 probably have them uppermost in your mind. If you 23:18:1817 don't recall them, feel free to look them up or tell 23:18:2218 us that you don't know. 23:18:2419 Α. Okay. 23:18:2420 Ο. What is your understanding of 23:18:2821 Mrs. Armstrong's known medical history, apart from 23:18:3422 amyloidosis which we learned after the fact, prior 23:18:3873 to -- immediately prior to her surgery? What was her 23:18:4224 condition, and I'm then going to ask you what --23:18:4625 where was that information made available and who

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23:18:48 1 obtained it. 23:18:52 2 From whose perspective? a. 23:18:54 3 Q. The patient's perspective and/or the 23:19:00 4 attending primary care physician. 23:19:04 5 Α. Well, that's a complete -- okay. 23:19:06 6 Q. Any and all medical providers is what I'm 23:19:10 7 asking you. What was her known medical condition 23:19:12 8 immediately prior to her surgery? 23:19:14 9 Α. She had a history of hypertension, a 23:19:1410 history of benign meningioma, a history of lower 23:19:1411 extremity arterial thrombus, a history of protein C 23:19:421 2 deficiency, a history of TIA which was explained on 23:19:4213 the basis of her -- on the basis of her meningioma. 23:19:421 4 Let's see, a history of a lambda chain myelodysplastic dyscrasia, a history of anxiety -- I 23:19:501 5 23:19:5216 don't know that it was formally put down, but she 23:19:5817 certainly had an anxiety disorder. Well, I can't say 23:20:001 8 She was certainly anxious and placed on that. 23:20:021 9 medication for that. It was never labeled as such. 23:20:0820 And a history of dysmenorrhea originally and now 23:20:1621 chronic pelvic pain. And I think that's it. 23:20:2422 Q. I counted nine conditions you've 23:20:262 3 identified. 23:20:282 4 Now, let's add some other Α. Yes. 23:20:3225 provisional diagnoses which are -- you can code them, 59

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-	23:20:40 <u>1</u>	they were certainly accelerating and intermittent,
	23:20:56 2	dyspnea, orthopnea, angina, and there are workups to
	23:20:58 3	that effect in the in the in her chart.
	23:21:06 4	Q. Are any one of these now 12 conditions
	23:21:08 5	you've described absolute contraindications to
	23:21:16 6	surgery?
	23:21:20 7	A. Certainly unstable angina.
	23:21:22 8	Q. Well, did she have unstable angina?
	23:21:26 9	A. What kind of surgery are we talking
	23:21:2810	about?
	23:21:2811	Q. The surgery she had in this case.
	23:21:30 <u>1</u> 2	A. Elective elective surgery.
	23:21:3013	Q. Elective OB/GYN.
	23:21:34 <u>1</u> 4	A. Elective OB/GYN. Unstable angina.
	23:21:4015	Q. Now, did she have unstable angina?
	23:21:4216	A. No. Escalating dyspnea.
	23:21:4817	Q. Okay. My do you have to make a call?
	23:21:5218	A. No.
	23:21:5219	Q. Okay. My question is of those conditions
	23:21:5420	she had that were documented in the medical records,
	23:21:5821	whether any of them were absolute contraindications
	23:22:0222	to surgery, OB/GYN surgery.
	23:22:062 3	A. Well, let me add two other diagnoses
	23:22:1024	then. EKG abnormalities consistent with an anterior
	23:22:2025	MI of undiagnosed condition, and cardiomegaly.

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23:22:28 1 0. Okay. Now, the same question. Were any 23:22:30 2 of these conditions, now 14 in number, absolute 23:22:34 3 contraindications to surgery? 23:22:40 4 Not with proper workup to establish Α. 23:22:44 5 risks. The issue --23:22:56 6 Q. Let's talk --23:22:56 7 I'm sorry --Α. 23:22:58 8 You finish, please. Q. 23:22:58 9 The issue revolves around how do you tell Α. 23:23:0410 the patient how serious of an operation this is going 23:23:0611 to be, and so you need to establish the risk. What's 23:23:0812 the relative risk of undergoing this operation versus 23:23:1213 weighing the risks and benefits of alternative 23:23:161 4 therapies. 23:23:167 5 Q. Okay. I understand that, but I think, 23:23:1816 from the standpoint of my question, I'm trying to 23:23:201 7 determine whether any of those were absolute. 23:23:2418 No -- any -- any -- no -- no one of those Α. 23:23:2419 would be an absolute contraindication, but if you get 23:23:2620 a constellation of those, I would cancel surgery 23:23:3221 until I could further verify what's going on if I had 23:23:3822 questions in my mind. 23:23:3823 Ο. Okay. Let me go back now and take these 23:23:4024 one by one. 23:23:4225 Α. Okay.

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23:23:42 1 Ο. Hypertension. Patients go to surgery 23:23:46 2 with hypertension all the time, right? 23:23:48 3 Α. Absolutely. 23:23:48 4 Q. Properly managed? 23:23:50 5 Absolutely. Can I stop you here for a Α. 23:23:52 6 second? 23:23:52 7 Q. Okay. 23:23:54 8 Α. We can go down that whole list one by one 23:23:56 g and say can individual patients with those single 23:24:0410 entities go to surgery safely and I'll answer yes to 23:24:0811 all of those, but that's not the issue because we 23:24:1012 don't have such a patient here, and often we do have 23:24:121 3 patients with single entities. We have a 23:24:147 4 constellation of symptoms and diseases together 23:24:181 5 which, once summated, change their risks 23:24:2416 dramatically. In particular, an ECG that has a Q --23:24:3217 well, essentially Q waves in your anterior leads of 23:24:3218 undetermined age. 23:24:361 9 Ο. Okay. So then, if I may, with your 23:24:4020 permission, check off any one of these individual 23:24:4421 conditions, hypertension, benign meningioma, arterial 23:24:5222 clotting in the lower leg -- limbs, protein C 23:24:5223 deficiency, TIA's, the blood dyscrasia, anxiety 23:24:5824 attacks, dysmenorrhea, chronic angina, dys --23:24:5825 Chronic stable angina, yes. Α.

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23:25:04 1 Ο. Stable angina. 23:25:04 2 Make it stable, please. Α. 23:25:06 3 Q. Okay. -- dyspnea, orthopnea, any one of 23:25:12 4 those 11, at least, are not absolute 23:25:14 5 contraindications to surgery? 23:25:16 6 No, but does it change the risk of Α. 23:25:20 7 surgery? Depending on those conditions, the risks 23:25:22 8 are going to be different. 23:25:24 9 Q. Okav. Then let's talk or focus on the 23:25:281 () EKG and cardiomegaly. 23:25:3011 Α. Okay. 23:25:3012 Q. The EKG, to your understanding, what did 23:25:3213 it tell us in this case? 23:25:3414 That she has cardiovascular disease. Α. Ιt 23:25:381 5 looks like she has an old -- for all intents and 23:25:4216 purposes, an old anterior MI of undetermined age. 23:25:521 7 Ο. Patients with that kind of profile on EKG 23:25:5618 go to surgery all the time, don't they? 23:25:5819 Α. No, they do not. 23:25:5820 Q. Do you --23:26:0021 The age --Α. 23:26:0022 Q. -- do you refuse surgery to those 23:26:0223 patients who have an old anterior MI? 23:26:0824 A " Not of undetermined age -- of 23:26:0825 undetermined age, I do.

23:26:10 1 I'm sorry. I didn't understand the Q. 23:26:12 2 answer. 23:26:12 3 Sorry. It wasn't articulated well. Α. 01d 23:26:16 4 anterior MI's of undetermined age with no historical 23:26:22 5 reference of how old it is, yes, those patients don't 23:26:26 6 go to elective surgery because the morbidity and 23:26:30 7 mortality in the perioperative period -- if you do 23:26:32 8 surgery right after MI, it goes way up. 23:26:36 G Okay. Let's inquire then how do you Ο. 23:26:4010 determine the age? 23:26:4211 Α. Previous electrocardiographic studies. 23:26:4812 Q. And if those previous 23:26:5013 electrocardiographic studies indicate that the Mi is 23:26:5414 old --23:26:541 5 If the MI is old and you've subsequently Α. 23:26:5616 determined, in fact -- here's the things that you 23:26:581 7 need to determine then, is why did they have an MI? 23:27:0218 Did they have ischemic disease? Is there new -- are 23:27:081 9 there regions of myocardium at risk? If somebody has 23:27:1220 an anterior MI, that's a big deal. It's not like 23:27:1221 inferior MI's. People have inferior MI's all the 23:27:2222 time and don't even know it. Interior MI's --23:27:2423 usually that's a big portion of the muscle. So you 23:27:282 4 would need subsequent evaluation to determine -- for 23:27:3225 instance, a cath and an echo, at least, to determine

CLEETON DAVIS COURT REPORTERS, LLC. 64 200 4TH AVENUE N. NASHVILLE, TN 37219 615-726-2737 23:27:34 1 what kind of functional reserve we have, and probably 23:27:40 2 a dobutamine echo or a stress echo, some test to 23:27:42 3 evaluate do we have other myocardium that's 23:27:48 4 potentially ischemic under exercise conditions. 23:27:52 5 Q. Okay. Have you completed your answer? 23:27:54 6 Yes. I'm a little long-winded. Α. 23:28:00 7 Do you know whether Dr. Richardson ever Q. 23:28:06 8 established himself, or in consultation, whether 23:28:10 9 Mrs. Armstrong had ischemic disease? I don't think -- I don't think that he 23:28:1410 Α. 23:28:167 7 did. I mean, --23:28:1812 Ο. Isn't it a fact that Dr. Richardson 23:28:2013 attributed her chest pain to anxiety attacks? 23:28:2814 Let me look. I don't know that. Α. THE WITNESS: I don't know where to 23:28:281 5 23:28:3616 find that. 23:28:3617 MS. TAYLOR-KOLIS: I think what 23:28:3618 you're --He certainly -- I mean, he worked her up Α. 23:28:4219 for -- he appropriately worked her up for her -- her 23:28:4420 23:28:4821 chest pain --MS. TAYLOR-KOLIS: Here you go. 23:28:5222 23:28:5223 Here's his record. Sorry. 23:28:5424 -- and so he took them seriously. He got Α. 23:28:5825 a nuclear medicine scan. She was echoed, she was --65 CLEETON DAVIS COURT REPORTERS, LLC.

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23:29:12 1 she had a nuclear medicine scan, so he worked her up 23:29:18 2 for that. I don't remember his -- because I've read 23:29:50 3 through his notes. I didn't --23:29:52 4 Ο. (BY MR. RISPO) Would you refer -- direct 23;29:54 5 your attention to his note -- office note of July 23:29:56 6 6th, '99? 23:30:00 7 Α. July 6th? 23:30:02 8 MS. TAYLOR-KOLIS: Do you have a 23:30:02 9 Bates stamped copy or are you just looking up a --23:30:0610 it's all right if you don't. 23:30:0811 MR. RISPO: I'm looking at a summary 23:30:1012 here. 23:30:101 3 MS. TAYLOR-KOLIS: Okay. 23:30:121 4 MR. RISPO: It looks like it's Bates 23:30:147 5 stamped 0003. 23:30:1816 MS. TAYLOR-KOLIS: I can't remember 23:30:1817 if we put these in reverse order or not. There you 23:30:241 8 qo. 23:30:2419 Α. Chest pain in the left breast, get out of 23:30:3420 breath walking up stairs, can't sleep because of --23:30:4221 (BY MR. RISPO) Feel free to read through 0. 23:30:4222 it, but I would direct your attention especially to 23:30:4623 his assessment. 23:30:4624 I'm looking at his plan and assessment, Α. 23:30:562 5 assessment number 2, where -- she's at risk for

23:30:58 1 MI and PE secondary to protein C deficiency, my 23:31:04 2 suspicion as well, and I think her anxiety is 23:31:04 3 contributory. 23:31:08 4 Ο. Contributing greatly to her symptoms? 23:31:12 5 He said contributory. He didn't say Α. 23:31:14 6 contributing greatly. He said contributory. But if 23:31:16 7 I remember correctly, he subsequently worked her 23:31:18 8 up -- let me see when his -- where his imaging 23:31:24 9 studies fall in terms of the grand scheme of things 23:31:3010 Okay. So -- yes, he had worked her up previously. 23:31:5011 0. Previously? 23:31:5012 Yes, in April of that year, and she Α. 23:31:581 3 continued to have symptoms. 23:32:021 4 0. And he concluded that she'd had these 23:32:041 5 symptoms for a period of three to four years. 23:32:0816 I didn't see that. Α. 23:32:1017 Well, in --Q. 23:32:1418 MS. TAYLOR-KOLIS: Point it out in 23:32:1419 the records to us. 23:32:1420 MR. RISPO: Okay. 23:32:1621 0. (BYMR. RISPO) The April 13th of '99 23:32:1822 progress note. This would be -- it looks like page 23:32:2623 00012. You'll see the --23:32:422 4 Α. It says --23:32:4225 Q. -- pressure feeling right upper chest --

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23:32:44 1 left upper chest --23:32:44 2 Α. And palpitation. 23:32:46 3 Ο. -- and left shoulder over times four 23:32:48 4 vears. 23:32:50 5 Hurts when she walks a short distance. Α. 23:32:52 6 Q. All right. Over a period of four years, 23:32:54 7 correct? 23:32:56 8 I don't see that. Α. 23:33:00 g Ο. End of the line under Allergies. 23:33:041 () Oh, there --Α. 23:33:0611 Ο. Third line under Allergies. 23:33:0812 Α. Right, uh-huh. 23:33:0813 Ο. Sne had that for a period of four years. 23:33:101 4 And, again, he repeats in July that she had a 23:33:161 5 period -- over a period of three years. So my 23:33:5016 question is what was Dr. Richardson's conclusion as 23:33:5617 to the cause for her chest pain? 23:34:0618 You know, I'm not an internist and I Α. 23:34:081 9 don't want to speak to that. 23:34:1020 What information was provided by Q. 23:34:1221 Dr. Richardson to the surgeon, Dr. Bartulica, if any, 23:34:1622 if you know, when Dr. Bartulica called Dr. Richardson 23:34:2473 to obtain clearance? 23:34:267 4 MS. TAYLOR-KOLIS: I'm going to 23:34:267 5 object to the question. There's no evidence

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23:34:28 1 established that he called him for clearance 23:34:32 2 regarding the overall surgical picture, but you can 23:34:36 3 try to answer it if you can. 23:34:36 4 MR. RISPO: Well, then let me break 23:34:38 5 it up and let's make sure we're on the same page. 23:34:40 6 MS. TAYLOR-KOLIS: Sure. 23:34:40 7 0. (BY MR. RISPO) Do you -- what is your 23:34:40 8 understanding as to who obtained clearance from whom, 23:34:44 Q and, specifically, did -- is it your understanding --23:34:481 0 do you have any information in the record? 23:34:5011 My understanding is that -- is that the Α. 23:34:5212 OB/GYN contacted the internist to modify the 23:35:0013 anticoagulation profile -- anticoagulation medication 23:35:041 4 for the perioperative period, and that's that, and 23:35:081 5 that's what's -- in my reading of the deposition of 23:35:1416 Bartulica, that's what he says. 23:35:161 7 Q. Only to discuss the Coumadin and --23:35:2018 Yes, exactly. And so he made some Α. 23:35:221 9 recommendations to put the patient on Lovenox and 23:35:2620 things like that, and that was the extent of their --23:35:2821 that consultation. 23:35:3222 0. Then who obtained clearance, if anybody, 23:35:362 3 from Dr. Richardson? 23:35:382 4 Α. Clearance -- clearance for surgery is not 23:35:422 5 obtained -- clearance for surgery is done twofold. CLEETON DAVIS COURT REPORTERS, LLC. 69

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23:35:46 1 The surgeon decides the patient is ready, the 23:35:48 2 anesthesiologist decides the patient is ready, and 23:35:50 3 that's it. 23:35:52 4 Ο. Did Dr. Richardson consult on that 23:35:54 5 question at all? 23:35:54 6 Α. Not that I can tell. I don't see any 23:35:56 7 specific notes where he was consulted on that. 23:36:00 8 Do you know if Dr. Bartulica sought or 0. 23:36:02 g Dr. Richardson provided any other details of 23:36:061 () Mrs. Armstrong's medical history? 23:36:1211 Α. Not that I -- not that I can tell from 23:36:1412 the records. The only thing that I can really tell 23:36:161 3 from my recollection is that he provided information 23:36:1814 on how to modify the anticoagulation. 23:36:241 5 Have you seen the note in Dr. Bartulica's Ο. 23:36:2816 chart indicating he obtained clearance for surgery 23:36:3217 from Dr. Richardson? 23:36:347 8 MS. TAYLOR-KOLIS: Look at the note. 23:36:347 9 Don't take it out of context. Why don't you read to 23:36:4020 him what the note says in the chart. If you don't 23:36:4221 have Bartulica's in that one, it will be in your 23:36:4422 other notebook. There you go. 23:36:4423 THE WITNESS: Yes. 23:36:5824 Α. There's a note -- okay. There's a note 23:37:0425 on, I guess you guys call it the Bates stamp, on page

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| 23:37:08 1 | 9, an 8-5-99 note that says, "Call to |
|-------------------------|---|
| 23:37:14 2 | Dr. Richardson and prescribing making |
| 23:37:20 3 | recommendations on the use of Lovenox," which is a |
| 23:37:28 4 | fractionated heparin, and it says, "Court for surgery |
| 23:37:36 5 | with above," meaning my interpretation of that is |
| 23:37:40 6 | that she can undergo surgery with this modification |
| 23:37:44 7 | of anticoagulation, and that was what he was |
| 23:37:46 8 | specifically consulted for. |
| 23:37:50 9 | Q. (BYMR. RISPO) On the previous column |
| 23:37:5210 | there is another statement, "Cleared" let's see. |
| 23:37:56 <u>11</u> | "Okay for surgery per patient." |
| 23:37:5812 | A. I see that. |
| 23:38:00 <u>1</u> 3 | Q. And preceding that comment is the note |
| 23:38:0414 | "Dr. Richardson," colon. What does that mean to you? |
| 23:38:10 <u>1</u> 5 | A. "patient report that that they're okay |
| 23:38:1216 | per Dr. Richardson" doesn't I would call |
| 23:38:1817 | Dr. Richardson myself. |
| 23:38:2018 | Q. Okay. Does this record collectively |
| 23:38:2219 | indicate that Dr. Bartulica made a separate call to |
| 23:38:2620 | Dr. Richardson? |
| 23:38:2821 | A. No. I pre yes, he called |
| 23:38:3222 | Dr. Richardson to get the Lovenox. |
| 23:38:362 3 | Q. Okay. So then is it your understanding |
| 23:38:4024 | that Dr. Bartulica did not ask Dr. Richardson whether |
| 23:38:52 ₂ 5 | Mrs. Armstrong would be a suitable candidate for |
| | |

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23:38:54 1 surgery but merely asked him about the Lovenox? 23:38:58 2 A. I can't tell from the records because 23:39:00 3 there's nothing in the records that would detail that 23:39:02 4 discussion. That doesn't change -- the final 23:39:06 5 decision has to be made --23:39:08 6 Q. Okay. Let me ask it a little differently

23:39:14 7 then. Based upon these records alone, would it be fair to understand that Dr. Bartulica was relying upon the patient and the patient's account of her conversation with Dr. Richardson as a clearance for surgery?

A. I can't tell that from that conver --23:39:4413 from this note.

23:39:481 4

Q. So the note is ambiguous?

23:39:5015 The note is ambiguous. And here's the Α. 23:39:5216 problem with anybody other than the people that are 23:39:5617 involved in the surgery clearing them for surgery. 23:40:0018 There are unique problems from the anesthesia 23:40:0219 perspective. I'm not going to talk to the surgical 23:40:0620 perspective. That's not my expertise. The set of 23:40:1021 drugs that we use have diverse physiological effects 23:40:1222 on patients that only we know, and so for even a 23:40:162 3 cardiologist to say this patient is okay for surgery, 23:40:2024 they don't specifically understand the -- the 23:40:2425 trespass the surgeon's going to do and the kinds of

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23:40:26 1 drugs that we use in order to achieve our ends, and 23:40:32 2 so they can give us estimations of cardiac 23:40:38 3 performance to allow us to then prescribe the 23:40:44 4 appropriate drugs, but they can't -- they don't 23:40:48 5 actually clear patients for surgery. 23:40:50 5 0. We'll get to that in a moment, but before 23:40:52 7 we leave the subject I'd like to finish this line of 23:40:56 8 inquiry. Did Dr. Bartulica have a duty to inquire 23:41:02 9 independently of Dr. Richardson, the primary care 23:41:0610 physician, whether the patient's condition was such 23:41:0811 that she could safely undergo surgery? 23:41:121 2 Oh, absolutely. Α. 23:41:127 3 MR. FARCIONE: Objection. He is the 23:41:181 4 obstetrician in this case. 23:41:181 5 MR. RISPO: What did I say? 23:41:2016 MS. TAYLOR-KOLIS: I think you 23:41:2217 said -- gynecologist? Is that what you wanted to 23:41:2418 hear, Joe? 23:41:261 9 MR. FARCIONE: Big difference. 23:41:2620 MS. TAYLOR-KOLIS: Okay. 23:41:2821 Α. Okay. Well, --23:41:3022 Q. (BY MR. RISPO) Okay. With that 23:41:327 3 amendment, did Dr. Bartulica, as the OB/GYN, have an 23:41:3824 independent duty to obtain from Dr. Richardson her 23:41:4225 history that would be relevant and determine whether

23:41:48 1 she could be cleared for surgery? 23:41:52 2 Α. My answer to that question is -- the way 23:41:56 3 you worded it, no. Yes, he has an independent -- no. 23:42:00 4 Just because he said "cleared," and -- he's got to --23:42:02 5 he's got to take this patient to surgery and carry 23:42:06 6 them through the postoperative period, so he has to 23:42:08 7 know what the medical conditions of that patient are 23:42:10 8 in order to know if she's strong enough to go through 23:42:14 9 all that. So yes. Not to clear them for surgery, 23:42:1610 but are they going to survive the whole perioperative 23:42:2011 period. 23:42:2212 Q. Okav. And if Dr. Bartulica had obtained 23:42:241 3 the medical history as we know it and as you 23:42:261 4 understand it to be, would it be his duty or would he 23:42:281 5 have a duty to share that information with 23:42:3216 Dr. Celerio or any other anesthesiologist? 23:42:3817 Α. Moral or fiduciary? 23:42:4018 Ο. Medical. 23:42:4419 I don't know if it's written in -- it Α. 23:42:4820 would certainly be prudent. It would absolutely be 23:42:5221 prudent. 23:42:5222 Q. Good collaborative medicine as you put 23:42:5273 it? 23:42:5824 Α. Absolutely. I don't have any debate with 23:42:5825 that.

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23:42:58 1 Ο. Do you have any evidence in the Okav. 23:42:58 2 record to indicate that either -- Dr. Bartulica 23:43:02 3 either obtained the complete medical history of this 23:43:06 4 patient or that he provided it to -- that same 23:43:10 5 information to Dr. Celerio? 23:43:14 6 Α. No. There's only one conversation. Т 23:43:18 7 don't -- I don't see any written note saying 23:43:22 8 discussed the case with Dr. Celerio. There is a line 23:43:26 Q in his deposition that speaks to that that sounds 23:43:361 like they discussed ECG findings. 23:43:5011 MS. TAYLOR-KOLIS: Mr. Davis, I can 23:43:5212 clearly represent to you that you will not be able to 23:43:541 3 make your 1:00 o'clock deposition. Is it okay if we 23:43:5414 take break? The doctor is looking through the 23:44:021 5 deposition, the court reporter needs to make a phone 23:44:0216 call, and I can --23:44:0217 THE WITNESS: I'm working and you 23:44:0218 guys are a taking a break? 23:44:0419 MS. TAYLOR-KOLIS: We're off the 23:44:0420 record. 23:44:0421 (Recess taken.) 23:48:1622 MR. RISPO: Back on the record. 23:48:1623 Q. (BY MR. RISPO) Doctor, while we were in 23:48:1824 adjournment here, you had an opportunity to go back 23:48:2025 to the transcript of the deposition, I think, of

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23:48:24 1 Dr. Bartulica. 23:48:28 2 That's correct. Α. 23:48:28 3 Ο. After having done so, can you answer the 23:48:30 4 earlier guestion put to you which was, in essence, is 23:48:36 5 there any record to indicate that Dr. Bartulica 23:48:40 6 provided the information on Mrs. Armstrong from 23:48:46 7 Dr. Richardson to Dr. Celerio? 23:48:50 8 No, I cannot. . Α. 23:49:08 Q Ο. And if I understood your earlier 23:49:081 () testimony, Doctor, the only time you would call 23:49:121 1 the -- as the anesthesiologist you would call the 23:49:1812 primary care physician is if there was something in 23:49:201 3 the records or the history or the examination that 23:49:241 4 you performed that created concern or alarm? 23:49:281 5 That's correct. Α. 23:49:3016 Ο. Have you ever taken a patient to surgery 23:49:3217 who had a remote MI? I think you've already answered 23:49:3818 that, but I'll ask you again. 23:49:401 9 Α. I have. 23:49:4220 Q. Have you ever taken a patient to surgery 23:49:4421 who had --23:49:4422 Now, let me preface that, a remote MI Α. 23:49:4823 where the patient was then further evaluated so we 23:49:5024 know what the cardiac function is like. 23:49:5225 Q. Right. And your answer to that was yes?

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<u>2</u> 3:49:54 <u>1</u>	A. Yes.
23:49:56 2	Q. Okay. Have you ever taken a patient to
23:49:58 3	surgery who had atelectasis?
23:50:04 4	A. Atelectasis is a relative term.
23:50:08 5	Q. Broad term. Okay.
23:50:08 6	A. Yes. And so
23:50:10 7	Q. How about in this case? Given the x-rays
23:50:14 8	that were available in this case indicating was it
23:50:18 9	left lower lobe?
23:50:2010	MS. TAYLOR-KOLIS: Wait. Not the
23:50:2011	just to clarify, you mean the x-ray report.
23:50:2412	MR. RISPO: Report. Excuse me.
23:50:2613	MS. TAYLOR-KOLIS: Okay. I just
23:50:2614	wanted to clarify the question.
23:50:28 ₁ 5	Q. (BYMR. RISPO) Actually, to be
23:50:2816	completely accurate, the wet readings of the chest
23:50:3417	films in this case. Are you familiar with those?
23:50:3818	A. What readings? I'm not familiar with the
23:50:4019	term, and and Donna and I have talked about that.
23:50:4020	MS. TAYLOR-KOLIS: Wet read in in
23:50:4821	Ohio legal parlance, we mean the preliminary findings
23:50:4822	of the radiologist that have not yet been reduced to
23:55:0423	transcription as a final report.
23:50:5424	MR. RISPO: I'll accept that as
23:50:5425	MS. TAYLOR-KOLIS: Does work for

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23:50:54 1 everybody? 23:50:56 2 MR. RISPO: -- my understanding, 23:50:56 3 anyway. 23:50:56 4 Okay. Well, that's fine. So we all Α. 23:50:58 5 agree on -- that that's what a wet reading is. 23:51:04 6 Q. (BY MR. RISPO) Are you familiar with the 23:51:04 7 wet readings in this case? 23:51:06 8 Α. I am. 23:51:06 9 Q. Right lower lobe consoli -- consolidation 23:51:1010 and effusion. 23:51:101 1 MS. TAYLOR-KOLIS: Wait. Mr. Rispo, 23:51:1012 I'm sorry, you --23:51:10₁ *3* MR. RISPO: I'm looking at the 23:51:1414 final. 23:51:141 5 MS. TAYLOR-KOLIS: You're looking at 23:51:1416 the final. 23:51:1417 MR. RISPO: Okay. 23:51:1618 MS. TAYLOR-KOLIS: I would suggest 23:51:1619 to you that in Dr. Bartulica's chart, or at least 23:51:2420 I -- excuse me for mispronouncing his name, Joe, in 23:51:2421 his chart there was a faxed copy which arrived from 23:51:2622 the hospital from PAT. It's probably got PAT at the 23:51:2623 top of it. 23:51:3824 MR. RISPO: Okay. I think --23:51:4025 MS. TAYLOR-KOLIS: That's the

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23:51:40 1 correct document. 23:51:42 2 MR, RISPG: Thank you. 23:51:42 3 MS. TAYLOR-KGLIS: You're welcome. 23:51:44 4 Ο. (BY MR. RISPO) I'm handing you what then 23:51:46 5 has been identified as -- we probably should identify 23:51:52 6 it by Exhibit -- Exhibit 4, the preliminary read. 23:52:02 7 MS. TAYLOR-KOLIS: You may not have 23:52:02 8 it. 23:52:04 9 THE WITNESS: No, actually, I do. 23:52:081 () Oh, I may not have that one then. 23:52:1011 MS. TAYLOR-KOLIS: Okay. Yes, you 23:52:1212 do. Okay. 23:52:121 3 (Deposition Exhibit 4 marked.) 23:52:141 4 Ο. (BY MR. RISPO) Okay. Assuming that that 23:52:167 5 was the information available to the 23:52:2016 anesthesiologist, Dr. Celerio, in this case, to the 23:52:2617 extent that that condition may have been common to 23:52:3018 your cases, Doctor, have you ever taken a patient to 23:52:321 9 surgery with that condition? 23:52:3620 With -- with atelectasis? Α. 23:52:3821 Yes, to that extent. Ο. 23:52:4022 Α. I wouldn't take the patient to surgery 23:52:4023 until I saw the x-ray myself, if they have 23:52:427 4 infiltrates, on elective surgery. 23:52:4225 Q. Well, let's suppose they do have Okay.

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23:52:42 1 infiltrates --23:52:48 2 Α. Well, then you --23:52:48 3 ___ on elective surgery. 0. 23:52:48 4 Then we have to decide what the Α. 23:52:52 5 infiltrates are due to. Their perioperative 23:52:54 6 morbidity is significantly increased. Q. Suppose that the record also indicates 23:52:58 7 23:53:00 8 that there is no evidence of infection. 23:53:02 9 Α. You can't determine that with -- by an 23:53:0610 x-ray. 23:53:0611 Q. Well, let's suppose you look at the lab 23:53:0812 studies and find that there is no evidence of 23:53:1213 elevated blood cell -- white blood cell count or 23:53:2014 elevated temperatures. 23:53:2615 I'm going to look at the x-ray. Α. 23:53:2816 Q. Okay. Suppose you have --23:53:3017 And -- and if I --Α. 23:53:3018 Q. Did you look at the x-ray in this case? 23:53:3219 I did. Α. 23:53:3220 0. Okay. And what did you see? Tell us 23:53:3421 what your understanding of --23:53:3422 Α. Can I show you the x-ray? 23:53:3623 Q. You may. 23:53:3824 Have you seen the x-ray? Α. 23:53:3825 I have not. Ο.

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23:53:40 1	A. Okay. This is the x-ray of this woman.
23:53:54 2	Q. How would you interpret that?
23:54:00 3	A. Gross cardiomegaly, mild vascular
23:54:06 4	congestion, possible infiltrate in the right middle
23:54:12 5	lobe, right lower lobe infiltrate, and small right
23:54:18 6	effusion
23:54:18 7	Q. Okay. Now,
23:54:20 8	A with some with some volume loss.
23:54:22 9	Q. Okay. Assume that we're talking for the
23:54:2610	moment about the vascular congestion. I'm sorry.
23:54:3011	The did you say pulmonary congestion?
23:54:3412	A. Vascular congestion. Just crowding of
23:54:36 ₁ 3	the vessels just because her heart is so big.
23:54:40 <u>1</u> 4	Q. Okay. What what does the pulmonary
23:54:42 <u>1</u> 5	cavity look like?
23:54:4216	A. What does the what?
23:54:4617	Q. Pulmonary.
23:54:4618	A. You mean what do do the lung fields
23:54:4619	look like.
23:54: 482 0	Q. Yes.
23:54:4821	A. Okay. The left lung field is clear.
23:54: 502 2	She's got a a what could be a potential
23:54:542 3	infiltrate in the right middle, right lower lobe.
23:54:5624	That's a small effusion.
23:54:5825	Q. Okay. Let's focus on the small effusion

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23:55:00 1 on the right side. 23:55:04 2 Looking at this chest x-ray, --Α. 23:55:04 3 0. Yes. 23:55:06 4 -- if that's what you're asking me --Α. 23:55:06 5 Q. Yes. 23:55:06 6 -- for my interpretation, --Α. 23:55:08 7 Q. Right. 23:55:08 8 -- that effusion and that infiltrate Α. 23:55:12 9 wouldn't worry me. That's not what worries me here. 23:55:1410 This heart is huge. 23:55:1677 You're looking at the cardiomegaly, 0. 23:55:1612 right? 23:55:161 3 Right. Α. 23:55:201 4 Q. Okay. 23:55:2015 Α. The cardiomegaly is dramatic. 23:55:2016 Okay. Let's take it step by step. The Q. 23:55:2217 atelectasis on that film alone wouldn't be such that 23:55:261 8 it would --23:55:261 9 Α. No. 23:55:2820 Ο. -- prohibit elective surgery? 23:55:3021 No, not -- not unless she was -- she had Α. 23:55:3422 productive sputum, or an elevated white count, or a 23:55:3823 fever, or both, or a recent history of a URI, --23:55:3824 Q. Okay. 23:55:4425 -- upper respiratory infection, none of Α. 82

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····.	23:55:44 1	those which were present by history.
	23:55:46 2	Q. Referring to Exhibit 4 again, is there
	23:55:48 3	any indication on this preliminary x-ray report from
	23:55:52 4	the x-ray lab and lab technician of cardiomegaly?
	23:56:00 5	A. No, but I what I'm telling you is, if
	23:56:02 6	I can continue, is that if we have an infiltrate on
	23:56:08 7	the chest x-ray, I need to look at the chest x-ray to
	23:56:12 8	see how big this infiltrate is
	23:56:12 9	Q. Okay.
	23:56:1410	A to make a decision about what kind of
	23:56:1411	pulmonary problems we're going to get ourselves into.
	23:56:1612	The other question I have is that I've got the
	23:56:18 <u>1</u> 3	official report. The official report was transcribed
	23:56:24 <u>1</u> 4	on 8-6 at 10:00 o'clock, so that should have been
	23:56:2615	available for review on the day of surgery.
	23:56:3216	Presumably it's in their system someplace where they
	23:56:3417	can get that result. Here. Can I show you my copy?
	23:56:4218	Q. I think I have it.
	23:56:4419	MS. TAYLOR-KOLIS: He's got the same
	23:56:4420	one.
	23:56:4621	THE WITNESS: Okay.
	23:57:0622	Q. (BYMR. RISPO) That same record that
	23:57:082 3	you're referring to has a handwritten note below it.
	23:57:122 4	A. I don't have that.
	23:57:1225	Q. You don't have that one?

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23:57:14 1 Yes, and I -- I -- I've seen two of them. Α. 23:57:18 2 I've got one without the handwritten note and one 23:57:20 3 with the handwritten note, so I'm not quite sure 23:57:20 4 what's going on there. 23:57:22 5 Okay. I don't know either, but the one 0. 23:57:24 6 I'm looking at in Dr. Bartulica's chart indicates it 23:57:26 7 was received 8-10-99. 23:57:26 8 Α. Well, --23:57:28 g MS. TAYLOR-KOLIS: At his office. 23:57:301 0 Q. (BY MR. RISPO) I -- I presume that means 23:57:321 1 at his office. 23:57:3212 Α. Okay. 23:57:361 3 Q. Okay. Do you have any information to 23:57:421 4 suggest that Dr. Celerio saw the final read on this? 23:57:5015 I don't think he did, actually. I'm not Α. 23:57:561 6 sure. He makes no -- I can look through his 23:58:0017 deposition. I think he -- in fact, he never looked 23:58:0818 at the chest x-ray. Okay. 23:58:321 9 Ο. Is there any indication that the 23:58:3420 radiologist called either Dr. Bartulica or 23:58:4221 Dr. Richardson or Dr. Celerio to report what he found 23:58:4822 as cardiomegaly? No. I don't think that's his -- he -- it 23:58:5223 Α. 23:58:562 4 was dictated in a timely fashion and put on their 23:59:0025 system and available for all to peruse. I presume

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23:59:04 1 they have a system like they had when I was an intern 23:59:08 2 where you dial a number and --23:59:18 3 Q. Remember, we're talking about a small 23:59:18 4 community hospital here, Doctor. 23:59:20 5 MS. TAYLOR-KOLIS: They don't have 23:59:22 6 this system. 23:59:28 7 0. (BY MR. RISPO) Would it be fair then to 23:59:30 g say, Doctor, that Dr. Celerio was not aware of 23:59:38 9 cardiomegaly before the surgery? Correct? 23:59:441 () If indeed that's all he saw was a wet Α. 23:59:4811 read, that is true. 23:59:4812 0. Would it be fair to say that he was 23:59:5013 operating on the assumption that the EKG reflected a 23:59:5214 remote MT? 00:00:041 5 Α. Unclear whether he thought it -- how 00:00:0816 remote it was. That's not detailed in his 00:00:1017 discussion. In fact, in his discussion he writes on 00:00:181 8 page 94 --00:00:201 9 MS. TAYLOR-KOLIS: Of his 00:00:2020 deposition. 00:00:2021 -- of his deposition, "Question: Α. The 00:00:2422 patient can have an MRI," this is by Donna, "The 00:00:3023 patient can have an MRI, you not know how old it is, 00:00:322 4 that would be a contraindication?" That's a question 00:00:3825 mark. "It is a contrain -- contraindication if you

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 00:00:40 1	ask the patient if they have a history of MI and they
00:00:44 2	say no."
00:00:48 3	Q. (BYMR. RISPO) Let's assume that the
00:00:50 4	patient reported to Dr. Celerio that she did not have
00:00:54 5	a myocardial infarction. Would that be an
00:01:00 6	accurate
00:01:00 7	A. That's true.
00:01:00 8	Q interpretation of the record?
00:01:02 9	A. And his answer is "It is a
00:01:0410	contraindication if you ask a patient if they have a
00:01:0811	history of MI and they say no."
00:01:0812	Q. Okay. You're assuming that the
00:01:10 ₁ 3	transcript is accurate?
00:01:1214	A. Well, I have to assume that.
<i>00:</i> 01:14 <u>1</u> 5	Q. Okay.
00:01:2216	A. And either way, when you don't when
00:01:2617	you don't have a clear idea of the remoteness of an
00:01:3018	MI in the perioperative period, you've got to figure
00:01:3619	that out because if you take somebody to surgery
00:01:3820	within the first six weeks of an MI, their risk goes
00:01:4221	way up.
00:01:4422	Q. Would it be a fair assumption then, also,
00:01:4623	Doctor, from your understanding of the record, that
00:01:5224	Dr. Celerio was informed by Dr. Bartulica that the
00:01:5825	patient had been cleared for surgery by

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 00:02:00 1	Dr. Richardson?
00:02:12 2	A. Did he say those exact words. I don't
00:02:16 3	think he said those exact words. Do you know where
00:02:30 4	in his in his deposition he says that?
00:02:32 5	Q. I don't have the citation offhand.
00:02:34 6	A. Okay.
00:02:36 7	Q. I'm just asking you what is your
00:02:36 8	understanding.
00:02:38 9	MS. TAYLOR-KOLIS: What do you
00:02:3810	remember from reading the deposition?
00:02:4011	A. I don't remember him saying that exactly.
00:02:4212	And, as I've said before, and you've heard me say
00:02:4613	this before, the final decision rests with
00:02:5014	Dr. Celerio on what's appropriate.
00:02:5415	Q. (BYMR. RISPO) Let's take that for the
00:02:5416	moment. The final decision
00:02:58 ₁ 7	MS. TAYLOR-KOLIS: I'm sorry. I'm
00:03:0018	just teaching him. There's an index in the back.
00:03:0219	That was easy.
00:03:0420	THE WITNESS: Okay.
00:03:0421	Q. (BYMR. RISPO) Have you found
00:03:0422	something
00:03:0423	A. Yes.
00:03:0624	Q in the deposition? What have you
00:03:0625	found?

CLEETON DAVIS COURT REPORTERS, LLC. 87 200 4TH AVENUE N. NASHVILLE, TN 37219 615-726-2737 00:03:08 1 Α. No. All I heard was the patient was 00:03:10 2 cleared by Dr. Richardson. 00:03:12 3 Q. Okay. And that is on page what? 00:03:14 4 Α. Sixty-two, line 11 and 12. 00:03:16 5 Ο. Okay. So would it be fair then to 00:03:20 6 assume, based on that deposition testimony and the 00:03:24 7 records as you -- as you understand them, that 00:03:26 8 Dr. Celerio was informed that the patient had been 00:03:30 g cleared for surgery by Dr. Celerio? 00:03:341 () No. By Dr. Richardson you mean? Α. 00:03:381 1 Q. I'm sorry. By Cr. Richardson. Thank you 00:03:4012 for the correction. 00:03:4013 That's what it says here. Dr. Richardson Α. 00:03:461 4 doesn't clear the patient for surgery. 00:03:4815 Q. Is that what the deposition transcript 00:03:5016 says? 00:03:5217 No, no. Sorry. That's my comment on top Α. 00:03:5418 of that. 00:03:5619 Q. All right. Let's, first of all, make 00:03:5620 sure our record is complete and accurate. What does 00:04:0021 the deposition say? 00:04:0022 The deposition -- deposition says, "No. Α. 00:04:0223 All I heard was the patient was cleared by 00:04:0424 Dr. Richardson." 00:04:0625 Q. Okay. Now, you -- you quarrel with the

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00:04:08 1 use of the word clear, and I think, for the record, 00:04:12 2 we want to be sure what you're saying is that the 00:04:18 3 evidence is that Dr. Richardson had no objection to 00:04:20 4 the patient provide -- proceeding to surgery. Is 00:04:30 5 that your understanding? 00:04:32 6 No, I don't know that. There's nothing Α. 00:04:34 7 in Dr. Richardson's record that supports that. All I 00:04:38 8 know is what is said secondhand in this transcript, 00:04:44 Q so --00:04:461 0 Q. We also know what is said in 00:04:4811 Dr. Bartulica's chart, don't we? 00:04:5012 Right, but we -- we don't have any direct Α. 00:04:5213 evidence that Dr. Richardson ever said that. 00:04:5414 Ο. But we have a record in Dr. Bartulica's 00:04:5815 chart which says, "Dr. Richardson," colon, "okay for 00:05:001 G surgery per patient.'' 00:05:0017 Α. "Per patient." 00:05:0218 0. And then another note in the same page --00:05:0419 on the same page, "Call to Dr. Richardson. Cleared 00:05:0820 for surgery with above." Above referring to the 00:05:1221 Lovenox? 00:05:1222 Right. So --Α. 00:05:1623 So if Dr. Bartulica told Dr. Celerio what 0 -00:05:2424 occurs or is written in his chart, Bartulica's chart, 00:05:3025 then Dr. Celerio would be fair in assuming that

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00:05:36 1	Dr. Richardson had no objection to the patient
00:05:38 2	proceeding to surgery?
00:05:44 3	A. I would assume, from a family practice
00:05:46 4	standpoint, that would be true, if, in fact, that
00:05:50 5	that were the a statement of fact.
00:05:50 6	Q. Okay.
00:05:52 7	A. I'd be much more comfortable if
00:05:54 8	Dr. Richardson had a note to that effect. But it
00:05:58 9	doesn't change that the primary responsibility for
00:06:0010	making the decision to go to surgery is with the
00:06:0411	surgeon and the anesthesiologist.
00:06:0612	Q. What you're saying is there's there
00:06:0813	should have been a note in Dr. Richardson's chart
00:06:12 <u>1</u> 4	indicating that he cleared the patient for surgery?
00:06:1415	A. Well, it that doesn't to
00:06:1816	document
00:06:1817	Q. If, in fact, he did.
00:06:2018	A. To document that that conversation,
00:06:2019	that would have been nice, but we've gone over the
00:06:2420	the issue of clearing or not clearing. The final
00:06:2621	responsibility rests with the anesthesiologist and
00:06:3022	the surgeon.
00:06:3023	Q. Okay. I I'm sorry I keep going back
00:06:3224	to the word "clearing," but I didn't intend to
00:06:3625	confuse the record. What you would prefer to see is,

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and the

00:06:40] if Dr. Richardson had a conversation with 00:06:42 2 Dr. Bartulica concerning the prospect for surgery, 00:06:48 3 that fact should have been noted in his record? 00:06:50 4 Yes, it would have been nice. Α. 00:06:52 5 Ο. And it was not? 00:06:54 6 I couldn't find it. Α. 00:06:54 7 Q. Would Dr. Celerio have a right to Okav. 00:07:08 8 rely upon the information provided to him by 00:07:14 g Dr. Bartulica if, in fact, Dr. Bartulica told him 00:07:1810 that he spoke to Dr. Richardson and Richard --00:07:2211 Dr. Richardson had no objection to the patient 00:07:241 2 proceeding to surgery'? 00:07:281 3 I -- I think that would be reasonable. Δ 00:07:361 4 I -- I would be more comfortable if these gentlemen 00:07:401 5 had an established practice pattern where, in fact, 00:07:4416 they talk to each other all the time about their 00:07:4817 surgical patients, et cetera, et cetera, so the 00:07:521 8 expectations of what anesthesiologists and surgeons 00:07:5619 need from a family practitioner are clear in terms of 00:08:0020 what they really need to know to make sure the 00:08:0421 patient is safe. The problem lies with you can't --00:08:2422 you can't just get a blanket clearing of a patient 00:08:2623 for surgery without knowing their complete history 00:08:3024 because you can't get -- give good informed consent. 00:08:3425 You can't tell the patient what their risks are if

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00:08:38 1 you don't know what the risks are yourself. 00:08:40 2 Q. You -- you don't call the attending 00:08:42 3 physician yourself on every patient; do you? 00:08:46 4 No. When I have worries -- you -- you Α. 00:08:48 5 mean the surgeon? 00:08:50 6 Ο. As -- as an anesthesiologist, you don't 00:08:52 7 call the primary care physician to discuss the 00:08:56 8 patient's history in every case; do you? No, I do not. When I have -- when I have Α. 00:08:58 9 00:09:0210 things before me that need answering and I need 00:09:0611 further answers that can be resolved by the primary 00:09:1012 care physician, I will call them or search out their 00:09:1413 records or have somebody call them to get additional 00:09:161 4 records. If I'm still in question, and this is an 00:09:2215 elective case, then I seek further consultation and 00:09:2616 appropriate risk stratification for the patient. 00:09:5217 0. Can we agree then that there was no 00:10:1818 information provided to Dr. Celerio by Dr. Bartulica 00:10:221 9 or Dr. Richardson which would indicate there was an absolute contradict -- contraindication for surgery? 00:10:3020 00:10:3421 That's true, but he didn't need any more Α. 00:L0:3627 information than was before him. Can I elaborate? 00:10:5023 0. At the appropriate time. Just a minute. 00:10:5424 Can we agree that there's no evidence that 00:10:567 5 Dr. Celerio spoke with either the radiologist or

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00:11:02 1 Dr. Richardson? 00:11:04 2 Α. I agree. That's true. 00:11:06 3 Q. Can we agree that Dr. Celerio did not see 00:11:10 4 the final reading of the x-ray films? 00:11:16 5 Α. I don't know that to be true. I -- I 00:11:18 6 certainly -- in his testimony it -- it -- it sounds 00:11:22 7 like he read the wet read --00:11:22 8 Q. Okay. 00:11:26 g Α. -- as you guys call it. 00:11:2610 All right. At least there's no evidence 0. 00:11:281 1 in the record --00:11:2812 That's right. Α. 00:11:287 3 -- to indicate that he saw --0. 00:11:281 4 Exactly. Α. 00:11:301 5 -- the final? Q. 00:11:3216 Α. Exactly. 00:11:3217 Okay. 0. 00:11:3218 I don't know when it made it to the Α. 00:11:3619 It was clearly dictated in time and record. 00:11:3820 transcribed in time for it to be in the record. 00:11:4021 Q. Can we agree that the patient told 00:11:4222 Dr. Celerio that she never had an MI? 00:11:4623 Α. That's true. 00:11:5024 Is it reasonable for Dr. Celerio to rely Q. 00:11:5425 upon the patient's history?

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00:11:56 1 Α. It is reasonable. In the past she has 00:12:04 2 been a good historian. Her -- in previous admissions 00:12:10 3 and other treatments the same things come up, 00:12:14 4 shortness of breath, dyspnea on exertion, orthopnea. 00:12:20 5 Ο. The last topic we need to cover 00:12:24 6 preoperatively, Doctor, is signs and symptoms of 00:12:26 7 cardiac decompensation. I think you mentioned them 00:12:30 8 on the first page of your report, --00:12:30 9 Α. Yes. 00:12:3210 Q. at least your final report. I don't 00:12:3411 know where that appears in your original report. 00:12:4012 MS. TAYLOR-KOLIS: It doesn't 00:12:4213 because I subsequently got these records, I think. 00:12:441 4 MR. RISPO: Oh, okay. 00:12:481 5 Ο. (BY MR. RISPO) Doctor, what, in your 00:12:5016 understanding, are the signs and symptoms of the --00:12:5217 of cardiac decompensation that were in the hospital 00:13:0018 charts as distinguished from Dr. Richardson's charts? 00:13:041 9 As distinguished from Dr. Richardson's Α. 00:13:0820 charts? 00:13:0821 Q. Right. 00:13:1022 MS. TAYLOR-KOLIS: He's asking what 00:13:1023 is in the hospital chart PAT or the day of surgery, 00:13:1024 what --00:13:1675 Oh, okay. THE WITNESS: Fine. 94

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00:13:16] Α. In her -- the preanesthetic 00:13:20 2 self-assessment, the patient describes orthopnea, 00:13:30 3 let's see, short of breath with normal activity, so 00:13:34 4 dyspnea on exertion, peripheral edema, and previous 00:13:46 5 cardiac evaluation. 00:13:54 6 Ο. (BY MR, RISPO) Any other record that 00:13:56 7 would indicate de -- signs and symptoms of cardiac 00:14:00 8 decompensation? 00:14:04 9 Α. Her chest x-ray and her ECG. Ο. 00:14:0610 Now, you're talking about the final read, 00:14:0811 right? 00:14:1012 Α. No, the chest x-ray, the plastic 00:14:1213 celluloid piece of film itself, and her ECG which 00:14:1614 is -- this is an entirely abnormal rhythm. 00:14:201 5 Q. Okay. So we have these symptoms -- Dr. Celerio 00:14:2416 Α. 00:14:2817 doesn't know about any of this. In -- in his 00:14:3018 testimony he says he didn't know she had a cardiac 00:14:3019 problem. 00:14:3220 Q. Okay. 00:14:3221 Α. It's all over the testimony. 00:14:3422 Q. We -- we know that he didn't look at the 00:14:3623 original films. 00:14:3824 That's right. Okay? Α. Q. 00:14:3825 Okay.

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00:14:38 1 But what's before him is a patient that Α. 00:14:42 2 describes these signs and symptoms of cardiac 00:14:46 3 decompensation. He's never seen her ECG before, and 00:14:50 4 then she sees this -- he sees this ECG with a big 00:14:52 5 anterior -- with anterior Q waves. 00:14:52 6 Ο. Uh-huh. 00:14:56 7 Α. That's a huge red flag. 00:14:58 8 Q. Okay. Doctor, these signs and symptoms 00:15:00 9 that you've described, there are five of them other 00:15:0210 than the chest x-ray films, are they equally signs 00:15:0611 and symptoms of other conditions? 00:15:1012 Are they specific? Α. 00:15:1213 Q. I guess another way of putting it, are 00:15:141 4 they diagnostic of cardiac decompensation, either 00:15:2015 individually or collectively? 00:15:2016 Collectively, I would say they -- they Α. 00:15:2217 I wouldn't say individually. Certainly are. 00:15:2618 orthopnea, dyspnea, dyspnea on exertion, peripheral 00:15:327 9 edema, all would suggest cardiac decompensation. 00:15:3820 Q. You said "suggest." Is consistent with, 00:15:4221 in other words? 00:15:4422 Yes, strongly consistent with. Α. It's --00:15:4623 it's enough that you -- you go and you work 00:15:4824 somebody -- if somebody presents to you the first 00:15:4825 time with those symptoms, you work them up.

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00:15:54 7 Isn't it a fact --Q. 00:15:56 2 Can I pause for a second and get some Α. 00:15:58 3 coffee? 00:16:00 4 Q. Sure. 00:16:00 5 Α. Thanks. 00:16:00 6 Ο. If you can answer this while you're 00:16:02 7 getting coffee, Doctor, isn't it a fact that the 00:16:06 8 admitting history and physical had no reference to 00:16:12 9 heart disease or a subjective complaint of dyspnea --00:16:161 () The immediate history and physical by Α. 00:16:161] Dr. Bartulica's office which would be --00:16:201 2 0. Actually, in the hospital chart is what 00:16:2213 I'm talking about. 00:16:227 4 That would be Dr. Bartulica's admitting Α. 00:16:261 5 history and physical. Where would that be? 00:16:4416 I'm going to hand to you what I 0. 00:16:461 7 understood to be his -- the admitting history which 00:16:5018 is on pages 5, 6, and 7 of the chart. 00:16:581 9 Yes, that's it. Α. 00:16:5820 Q. Okay. Now that you have it in front of 00:17:0221 you, is it true that the admitting history has no 00:17:0622 record of history of heart disease or leq edema or a 00:17:1423 suggestive complaint of dyspnea? 00:17:162 4 No, that's not true. Let me go into his Α. 00:17:202 5 review of systems. General -- let me find this in my

00:17:28 1 own records. 006. History and physical. No, 00:18:12 2 nothing specifically for cardiovascular. The only 00:18:16 3 reference is for the decrease in breath sounds at 00:18:20 4 base and the pulmonary issues which is checked. 00:18:24 5 Ο. So there's no record of heart disease --00:18:26 6 Α. No. 00:18:28 7 Ο. __ or dyspnea? 00:18:30 g So it makes you wonder if he -- if he Α. 00:18:36 9 actually -- now, where is -- here is the review of 00:18:3810 systems. There are two review of systems. What is 00:18:4211 this from? 00:18:4412 MS. TAYLOR-KOLIS: One is from -- I 00:18:461 3 don't want to testify. 00:16:467 4 No, this is all the same, review of Α. 00:18:507 5 Do you have a page 8 on yours? svstems. 00:18:5416 Ο. (BY MR. RISPO) I do, and I don't know 00:18:5617 how that fits in myself. 00:18:5818 And so -- it does have shortness of Α. 00:19:021 9 breath here, it does have palpitations, and so I 00:19:0420 don't know if this is additional review of systems --00:19:1421 no, this is the physical exam. Sorry. That's the 00:19:1622 physical exam. This is the review of systems. So, 00:19:1823 in fact, it does based on the review of systems. 00:19:2424 Q. But the physical exam itself does not? 00:19:2625 Α. No, which -- well, other than the

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00:19:30 1 decreased breath sounds. So they did not auscultate 00:19:36 2 an S3 or something like that. But the review of 00:19:38 3 systems is consistent with the review of systems 00:19:40 4 previously obtained. 00:19:42 5 Q. Okay. And is it not true that the 00:19:44 6 patient denied a history of cardiovascular problems 00:19:48 7 in the admitting history and in the nursing 00:19:52 8 assessment? 00:19:56 G Α. No. The admitting history under the 00:20:0010 review of systems, shortness of breath. 00:20:0411 Q. I -- I'm sorry. I'm directing you --00:20:0612 Α. Palpitations. 00:20:0613 Q. -- to the nursing assessment. 00:20:081 4 Α. Where is that? I haven't memorized this. 00:20:141 5 Q. Paragraph -- or pages 56, 7, 8, and 9, I 00:20:2016 believe. 00:20:201 7 Α. Nursing notes. Can I see your copy? I'm 00:20:267 8 sorry. 00:20:261 9 Q. Sure. 00:20:442() THE REPORTER: I need to hear you, 00:20:4421 Doctor, if you're --00:20:4422 MS. TAYLOR-KOLIS: He's mumbling 00:20:4623 while he looks. I'll try to keep him quite. 00:20:4824 Α. No. It -- under General for her family 00:20:5295 health history, now, I presume this to be her own,

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00:20:56 1 cardiac and hypertension is checked right here. 00:21:04 2 Ο. (BY MR. RISPO) Okay. 00:21:04 3 And then --Α. 00:21:04 4 0. What about cardiac history besides 00:21:08 5 hypertension? 00:21:08 6 Well, they're both checked. Hypertension Α. 00:21:10 7 and cardiac are both checked. So I presume that to 00:21:12 8 be her -- her own history and not the -- or they'd 00:21:16 9 check off the other boxes. 00:21:2010 0. As distinguished from family history? 00:21:2211 Yes, exactly. Α. 00:21:2612 Q. I'm having difficulty finding where you 00:2i:2813 were. 00:21:2814 Right here. I'll show you. Right there. Α. 00:21:3215 Q. Okay. Oh, I see. 00:21:341 6 See. And so this is --Α. 00:21:3617 That's under -- that's under the column 0. 00:21:3618 for Mother and Siblings? 00:21:3819 Α. No, no, no -- but we've got both checked 00:21:4020 here, so I presumed that they were referring to her. 00:21:4421 It may not be, but that's what I presumed. 00:21:4622 Q. The top of that column says "Family 00:21:507 3 History, " doesn't it? 00:21:5024 Α. It does. 00:21:5025 Q. Okay. So everything below that column

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00:21:54 1 would be ordinarily read to mean family history, 00:21:56 2 wouldn't it? 00:21:56 3 It depends on how the form -- how they Α. 00:21:58 4 use the form. 00:21:58 5 Q. In -- in particular, when the next column 00:22:00 6 is Mother, Father, Siblings, and Grandparents, then 00:22:06 7 the logical reading of that would be individual 00:22:10 8 members of the family, would it not? 00:22:14 g That part of the form, yes. Α. 00:22:1410 Q. Okay. 00:22:1611 I mean, --Α. 00:22:1612 Q. There is no -- any -- there is no point 00:22:1813 at any other part of the form which indicates a 00:22:2214 history of cardiac complications on the nursing 00:22:2615 assessment? 00:22:2816 Not that I can see. Α. 00:22:3017 Okay. So then Dr. Celerio couldn't find Ο. 00:22:4018 anything in the admitting history and physical or in 00:22:441 9 the nursing history or -- assessment which would 00:22:5220 indicate the patient was having cardiac 00:22:5421 complications, and, in fact, the patient told her --00:23:0222 Dr. Celerio that she had no previous heart attack? 00:23:0623 That's right. Α. 00:23:062 4 Ο. Okay. 00:23:0625 That's all he asked, "Have you ever had Α.

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00:23:10 1 an MI?" But in his own preadmission testing review 00:23:16 2 of systems it's clear that she does describe those 00:23:18 3 symptoms. 00:23:20 4 Symptoms being shortness of breath on Ο. 00:23:24 5 exertion? 00:23:24 6 Yes. That's --Α. 00:23:26 7 0. And --00:23:26 8 -- page 16. Α. 00:23:26 Q 0. And a previous cardiac workup? 00:23:281 0 Α. That's right. 00:23:301 1 Ο. Okay. In fact, she described the cardiac 00:23:3212 workup as negative, did she not? 00:23:341 3 Per her own -- her -- no, she described Α. 00:23:3814 her cardiac cath as negative. 00:23:3815 Q. Okay. 00:23:4216 She had a more extensive workup, but that Α. 00:23:4617 history was not elicited. 00:23:4818 Okay. Let's go on to postoperative or, Q. 00:23:501 9 let's say, intraoperative management, Doctor. The 00:23:5620 management of the code. Would you agree the records 00:23:5821 reflect that the arrest didn't occur until 12:02? 00:24:0422 12:02. I think, in fact, the arrest Α. 00:24:1023 occurred at 11:55, Where is Dr. --00:24:1824 MS. TAYLOR-KOLIS: Here you go. I'm 00:24:1825 sorry.

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00:24:20 1 THE WITNESS: Yes. 00:24:22 2 I think by Dr. Celerio's own admission it Α. 00:24:26 3 was at 11:55, and I'll have to check on that. 00:24:30 4 Q. (BY MR. RISPO) Well, I'm looking at your 00:24:30 5 report of May 31st, 2001, and in your report you 00:24:36 G indicated that she arrested at 12:02. 00:24:40 7 No, I said the code was called at 12:02, Α. 00:24:46 8 and I think if you take me out of context that's 00:24:50 9 probably true, but I think I said the code really 00:24:5410 occurred at -- at this point the patient was -- it 00:24:5811 was not until 12:03 that therapy was initiated. 00:25:0412 Well, in your --Q. 00:25:061 3 And that's -- and so given -- I only have Α. 00:25:147 4 a -- a -- a birds-eye view of what went on. Ιf 00:25:167 5 Dr. Celerio said she coded at 11:55, I would think 00:25:2016 that he is right. He was there. 00:25:2417 Q. Well, what happened at 11:55? 00:25:2618 Α. Her -- the bottom dropped out of her 00:25:281 9 pressure. 00:25:2820 Q. Okay. She didn't code, did she? She was 00:25:3221 still -- her heart was functioning, was it not? 00:25:4022 She had a rhythm. It's not clear if she Α. 00:25:4223 had a pulse. Well, she had a pulse, but her blood 00:25:502 4 pressure was extremely low. 00:25:5225 Ο. In your report you quoted Dr. Celerio,

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00:25:56 1 page 78, line 4 to 10, --00:26:02 2 Α. Seventy-eight, line 4 to 10. Page 78, 00:26:06 3 line -- okay. 00:26:08 4 Q. -- and you said that quotation in the 00:26:12 5 record would support his understanding that she 00:26:16 6 arrested at 12:02. 00:26:40 7 Α. Uh-huh. 00:26:40 8 Q. Okay. So now that --00:26:42 9 Α. That's when the code was actually called. 00:26:461 () That's -- that's when, in fact, he asked for help. 00:26:4811 Q. Well, you said in your report the arrest occurred at 12:02, --00:26:5212 00:26:521 3 Α. Okay. 00:26:541 4 ___ so which -- which is correct? Ο. What 00:26:561 5 you said in your report? 00:27:0616 Well, from his anesthetic records I Α. 00:27:1217 can -- I would -- I would think that it's -- let me 00:27:2218 look at the record. 12:02? 00:27:3819 Ο. Yes. Is that correct? 00:27:4020 Α. Yes. 00:27:4021 Q. Okay. And ephedrine was administered one 00:27:4822 minute after she arrested, was it not? 00:27:5023 Α. That's correct. 00:27:5224 0. You criticized Dr. Celerio, nevertheless, 00:27:5425 indicating that in your view ephedrine should have

00:27:58 1 been administered earlier? 00:28:02 2 Α. That's correct. Her blood pressure was 00:28:04 3 already -- already falling at -- earlier than that. 00:28:10 4 0. Does the standard of care require 00:28:14 5 administrations of ephedrine before an arrest? 00:28:16 6 No, but to maintain normal physiological Α. 00:28:20 7 parameters it does. 00:28:20 8 Q. Okay. 00:28:22 g Α. So you don't wait until everybody 00:28:2810 arrests. You -- you -- as their blood pressure 00:28:3011 drops, you try to treat that before they arrest. 00:28:321 2 Q. Okay. What 'treatment, if any, did 00:28:361 3 Dr. Celerio employ as the blood pressure was 00:28:4014 dropping? 00:28:401 5 He used solely ephedrine Α. 00:28:4416 Q. Okay. Is ephedrine effective to improve 00:28:4817 blood pressure? 00:28:5018 in some situations it is. Not in code Α. 00:28:5419 situations. It's not a typical ACLS kind of -- it's 00:28:5820 not even in ACLS. 00:29:0021 Q. Well, she didn't code until 12:02, did 00:29:0422 she? 00:29:0423 Α. Right. 00:29:0424 Q. so --00:29:0425 Α. He gave ephedrine and it didn't work.

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00:29:12] Q. Was there anything wrong with giving 00:29:14 2 ephedrine? 00:29:20 3 The problem is, in fact, in this Α. 00:29:24 4 situation, with her undergoing pathophysiology, 00:29:30 5 ephedrine is not going to help. 00:29:32 6 0. Underlying pathophysiology including her 00:29:34 7 amyloidosis? 00:29:34 8 Α. And her cardiomegaly --00:29:36 g Q.. And her cardiomegaly. 00:29:361 () -- in -- in particular. Α. 00:29:4011 Ο. Neither of which were known to 00:29:4012 Dr. Celerio at the time of these events? 00:29:4413 Α. That's correct. 00:29:4614 0. Okay. So if this patient had been an 00:29:501 5 average healthy patient, ephedrine would have been 00:29:5216 effective? 00:29:541 7 I would agree with that. Α. 00:29:5418 Q. Okay. So administering ephedrine, in and 00:29:5879 of itself, was not a breach of the standard of care? 00:30:0620 But we don't have an average healthy Α. 00:30:1021 patient here. 00:30:1022 Q. Okay. But for the fact that she had 00:30:1273 cardiomegaly and amyloidosis, --00:30:1824 Well, we didn't know any of that. Α. 00:30:1825 Q. We -- we didn't know that. I know --

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00:30:20 1 All we know is she had big O waves in her Α. 00:30:24 2 anterior leads and --00:30:28 3 Ο. Okay. But if -- I'm asking you now, 00:30:28 4 knowing what we know now from hindsight, if she had a 00:30:34 5 normal cardiac silhouette, no cardiomegaly, in other 00:30:38 6 words, and did not have the underlying condition of 00:30:40 7 amyloidosis, would you expect ephedrine to be 00:30:46 8 effective to improve her blood pressure? 00:30:48 g I would. That's absolutely true. Α. 00:30:5210 Ο. In addition to the ephedrine, did he 00:30:5611 utilize other cardiac drugs to rescue the patient or 00:31:0612 in an attempt to rescue the patient? 00:31:0813 Α. He utilized several interesting cardiac 00:31:1214 drugs during the issuance of the code, ephedrine, 00:31:2015 fentanyl, which I don't fully understand, and 00:31:2816 atropine. 00:31:301 7 0. Okay, Is there anything wrong with any 00:31:3418 one of those individual drugs? 00:31:3619 Α. Absolutely, fentanyl. So, according to 00:31:4020 his record, from 1210 on through 1300 he delivered --00:31:5221 it's hard to tell. 00:32:0422 Q. I'm not sure I understood your answer. 00:32:0623 Are you saying that any one of those medications were 00:32:1024 inappropriate? 00:32:1225 The fentanyl was inappropriate, fully Α.

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00:32:16 1 inappropriate. 00:32:16 2 Q. Why is that? 00:32:18 3 Because it's a cardio depressant. Well, Α. 00:32:20 4 in this situation what it will do is drop her preload 00:32:26 5 because of its sympatholytic actions. 00:32:32 6 Ο. Were all the other medications 00:32:34 7 appropriate? 00:32:40 8 MS. TAYLOR-KOLIS: Do you mean 00:32:40 9 during the code? 00:32:4210 MR. RISPO: Yes. 00:32:4411 MS. TAYLOR-KOLIS: Okay. 00:32:441 2 I think it's -- it's reasonable to give a Α. 00:32:481 3 patient atropine. 00:32:5214 Q. (BY MR. RISPO) And the other medications 00:32:5215 as well? 00:32:5416 Α. The other medications were not given by 00:32:5817 Dr. Celerio. They were directed by Dr. Trocio, I 00:33:0218 think that's how you pronounce his name, and I could 00:33:041 9 use a break. 00:33:0420 0. Okay. That's fine. Let's do that. 00:33:0621 We'll take a short break. 00:33:0622 Α. Thank you. 00:39:1873 (Recess taken.) 00:39:182 4 Q. (BY MR. RISPO) Okay. Doctor, before we 00:39:2425 broke you referred to a medication given during the

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00:39:28 1 code which you objected to, and I can't find in the 00:39:32 2 record where that medication was given. Can you 00:39:34 3 point to me in the record where and when that 00:39:40 4 was --00:39:48 5 I stand corrected. Α. Here. Okay. 00:39:58 6 You're pointing to --0. 00:39:58 7 Α. This chart here, but, in fact -- I stand 00:40:00 8 corrected. This is -- I saw this last night and I 00:40:04 9 couldn't figure it out. This is atropine -- I -- I 00:40:081 0 presume this is atropine sulfate, so this is the 00:40:1011 atropine that he actually gave -- that was given. 00:40:141 2 Ο. So it's not --00:40:1413 It's not fentanyl. Α. 00:43:141 4 Q. Okay. So --00:40:161 5 So I stand corrected. Α. 00:40:1616 Q. Would it be accurate to say, then, that 00:40:1817 you do not criticize the use of any of the 00:40:221 8 medications that were used during the code? 00:40:261 9 Α. No, I have criticisms of these 00:40:2820 medications. There were ineffective. 00:40:3021 Q. Well, they were ineffective, --Okay. And -- and -- and --00:40:3222 Α. 00:40:322 3 -- but you don't -- you don't feel that Ο. 00:40:3224 they were inappropriate; do you? 00:40:362 5 Α. Inappropriate in this situation, yes.

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00:40:38 1 Q. Well, they were -- they were 00:40:40 2 inappropriate perhaps in -- to the extent that they 00:40:44 3 weren't sufficient to overcome the patient's 00:40:46 4 underlying condition, but in the average healthy 00:40:50 5 patient these medications would be appropriate, would 00:40:54 6 they not? 00:40:54 7 Α. As a first -- as a first go around, 00:40:58 8 absolutely. 00:40:58 g Ο. Okay. 00:40:581 0 But failing that, as this happened, then Α. 00:41:0211 you would escalate. Ephedrine is like light beer 00:41:1012 compared to a more powerful drug like epinephrine 00:41:1213 which would be more appropriate --00:41:121 4 Ο. Okay. 00:41:141 5 -- in this dire situa -- situation. Α. 00:41:1676 Q. Okay. Let's -- let's break the question 00:41:187 7 apart then. First of all, assuming we had a normal 00:41:2018 healthy patient, the medications that were given here 00:41:241 9 should have been sufficient to resuscitate the 00:41:2620 patient; is that correct? 00:41:2821 Α. That's correct, assuming they had 00:41:2822 appropriate volume status, they weren't dehydrated, 00:41:3223 or something like that. 00:41:342 4 Ο. Now, in this case, given that the patient 00:41:3625 had an unknown preexisting condition, cardiomegaly

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00:41:42] and --00:41:44 2 Α. It wasn't unknown though. 00:41:46 3 0. Well, it was unknown to Dr. Celerio. 00:41:50 4 All the stuff is in front of his face. Α. 00:41:54 5 The ECG -- he didn't synthesize the information. The 00:41:58 6 information is available. 00:42:00 7 Q. Okay. But he didn't see the final read 00:42:04 8 of cardiomegaly in the EKG, I'm sorry, in the x-ray? 00:42:08 g Α. That's correct. 00:42:081 0 Q. Okay. 00:42:1011 He didn't --Α. 00:42:1212 Q. And no one -- and no one knew that she 00:42:1213 had amyloiditis (SIC)? 00:42:121 4 Amyloidosis? Α. 00:42:1615 Q. Amyloi -- amyloidosis. 00:42:1616 That's correct. Nobody knew that. Α. 00:42:1817 Q. Now, given that she did have those two 00:42:221 8 conditions, it's your opinion that epinephrine should 00:42:267 9 have been used? 00:42:2620 Epinephrine should have been tried in Α. 00:42:3021 volume loading and she should have been given two 00:42:3222 liters of fluid within a period of 10 minutes. 00:42:362 **3** Q. Okay. My next question is if she had 00:42:4024 been given epinephrine in volume loading and two 00:42:4625 liters of fluid, would she have survived this code

00:42:50 1 given her underlying conditions of amyloidosis and 00:42:54 2 cardiomegaly? 00:43:00 3 Do you want my gut feeling? Do you want Α. 00:43:04 4 my --00:43:04 5 Do you have an opinion, to a degree of 0. 00:43:06 6 reasonable medical certainty, whether she would have 00:43:10 7 survived? 00:43:14 8 I have -- SO-50. If you could have -- I Α. 00:43:20 9 think if you could have got the blood pressure up 00:43:2210 within a reasonable amount of time, her arrhythmia 00:43:261 1 would have went away. So here's the problem with her 00:43:3012 condition. As I said before, her left ventricle was 00:43:341 3 stiff. What happens when you give propofol is you 00:43:381.4 drop the filling pressure of that left ventricle and 00:43:4215 so it doesn't work anymore. You solve that problem 00:43:4816 by taking a bunch of fluid to fill the pump up again, 00:43:5217 and you can sometimes support it with other pressors. 00:43:561 8 And, obviously, I can't -- it's hard to tell whether 00:44:021 g she would have survived. What's my gut level 00:44:0820 feeling? I think she may have survived. 00:44:0821 Ο. Is that it? 00:44:1022 If -- if -- if you could have reversed Α. 00:44:1223 the hypotension within five minutes, I think she --00:44:1824 she would have survived. 00:44:1825 Q. Okay.

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00:44:20 1 Α. But the problem is -- the problem is the 00:44:24 2 ventricle got starved because her blood pressure 00:44:28 3 dropped too low and it stayed down too low for too 00:44:30 4 long. We have this thick ventricle that's not 00:44:34 5 getting any blood so it got ischemic. People can 00:44:38 G tolerate ischemia, oh, you know, five, 10 minutes, 00:44:42 7 and you can bring them back and they'll do okay, but 00:44:44 8 if it lasts much longer than that, it's very 00:44:50 9 difficult. 00:44:5210 And drawing upon my recollection of your Ο. 00:44:5411 initial report, Doctor, your criticism of the 00:44:581.2 preoperative anesthetic drugs for induction was 00:44:581 3 directed to propofol? 00:45:041 4 Α. Propofol. 00:45:061 5 Ο. Do you have criticism of any other. drug 00:45:0816 that was used in the induction? 00:45:1017 Α. I mean, that -- that's induction. Ι 00:45:1218 wouldn't call that preoperative. That's operative. 00:45:161 9 Let's see. No, it's primarily the propofol which is 00:45:2220 the -- the -- I think is the bad actor here in that 00:45:2821 propofol, because of its -- each of our induction 00:45:3222 drugs, which there are four or five, have -- change 00:45:3823 the physiology of the patient a certain amount. 00:45:4024 Propofol drops your blood pressure by vasodilating 00:45:4025 the patient and it also directly inhibits myocardial

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00:45:52 1 contracture. 00:45:52 2 Your reference here, if I may quote, with Q. 00:45:58 3 respect to side effects, is a decrease in contract --00:45:58 4 contractility --00:46:02 5 That's right. Α. 00:46:02 6 Q. -- and peripheral vasodilation. 00:46:06 7 I think that's what I just said. Α. 00:46:06 8 Q. And then you follow that with the 00:46:08 9 comment, "Both due to alterations in the calcium 00:46:1210 handling by the corresponding cells." Could you 00:46:1677 explain that? 00:46:1812 Α. That's what we think is the mechanism --00:46:2013 the common mechanism for some of the actions of 00:46:2814 propofol in that it inhibits calcium uptake by the 00:46:301 5 various myocytes and by the peripheral vasculature, 00:46:3816 so the -- the smooth muscle, as well as cardiac 00:46:3817 muscle, is inhibited in alterations in calcium 00:46:4618 uptake. Calcium is in the contractile process. 00:46:5019 It's -- it's instrumental in the contract --00:46:5220 contractile process. 00:46:5421 Q. Is that --00:46:5422 Now -- and that's a -- that's -- that's Α. 00:46:5823 more basic science. The clinical experience is clear 00:47:0424 that, and there's lots of literature on that, that 00:47:0825 propofol drops your pressure dramatically,

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00:47:12 1 particularly in patients with poor cardiac function, 00:47:16 2 in patients that are volume depleted, because it 00:47:20 3 drops your preload. 00:47:20 4 Are -- are you indicating or explaining, 0. 00:47:22 5 and I'm not sure if I'm getting this right, that 00:47:26 6 propofol interferes with the electrical conduction of 00:47:32 7 the heart muscle? 00:47:32 8 Α. No, it doesn't do that. 00:47:34 Q What do you --Ο. 00:47:341 0 It's the -- it's the contraction of --Α. 00:47:4011 your myofibrils, your muscle cells, not -- not the 00:47:4212 conduction, but your muscle cells, they need calcium 00:47:461 3 to contract. It inhibits that contraction. 00:47:521 4 Q. Does amyloidosis also inhibit the calcium 00:47:5615 contractility of the muscles? 00:47:5816 Α. Not that I know of. It replaces muscle 00:48:0217 as far as I know. 00:48:021 8 Q. Okay. So is the propofol inappropriate 00:48:061 9 because of her amyloidosis or because of her meg --00:48:1020 cardiomegaly or neither? 00:48:1421 Propofol was inappropriate because she Α. 00:48:1622 told Dr. Celerio, "I have shortness of breath. I get 00:48:2023 short of breath when I walk around. I sleep on two 00:48:2424 pillows," or three pillows, "I sleep on a bunch of 00:48:2825 pillows." And that all suggests, well, maybe this

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heart muscle isn't as good as we think it is. 00:48:30 1 And so 00:48:34 2 you don't pick an induction drug that dings the heart 00:48:38 3 muscle, that reduces contractility. We have -- we 00:48:40 4 have other drugs that are more appropriate. 00:48:50 5 Q. Okay. I have -- I believe -- I believe 00:49:10 6 I've concluded my questioning. At this point I'm 00:49:14 7 going to turn it over to Mr. Farcione by telephone. 00:49:18 8 MR. RISPO: Joe, are you there? 00:49:28 g MS. TAYLOR-KOLIS: Joe? 00:49:361 () MR. FARCIONE: Yes. Can you hear 00:49:3671 me? 00:49:361 2 MR. RISPO: Hello, Joe? 00:49:361 3 EXAMINATION 00:49:361 4 BY MR. FARCIONE: 00:49:4215 I've only got a few questions. Q. Doctor, 00:49:4416 can you hear me? 00:49:4617 Α. Yes, I can. 00:49:4618 0. Doctor, my name is Joe Farcione. Ι 00:49:5019 represent Dr. Bartulica in this lawsuit. I have a 00:49:5020 couple of questions for you. First of all, would you 00:49:5421 agree with me that surgery and anesthesia each have a 00:49:5822 role regarding the clearance of a patient for 00:50:0223 surgery? 00:50:0224 Α. Absolutely. 00:50:0425 Q. They both need to give clearance from the

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00:50:06 1 point of view of their particular specialty? 00:50:10 2 That's true. Α. 00:50:10 3 Q. I'm sorry. I didn't hear the answer, 00:50:12 4 Doctor. 00:50:12 5 Α. Yes, that's true. 00:50:18 6 MS. TAYLOR-KOLIS: Joe, --00:50:18 7 MR. FARCIONE: Yes. 00:50:18 8 MS. TAYLOR-KOLIS: -- you're going 00:50:20 g in and out. It could be our speaker phone. 00:50:2210 MR. FARCIONE: Yes, I think it is 00:50:2211 because I picked up the receiver on this. I'm not 00:50:2612 talking through the speaker. 00:50:2813 MS. TAYLOR-KOLIS: Okay. 00:50:281 4 MR. RISPO: We're doing pretty well 00:SO: 3015 now so keep --00:50:3016 MS. TAYLOR-KOLIS: Keep going. 00:50:321 7 MR. FARCIONE: All right. 00:50:3418 0. (BY MR. FARCIONE) In this particular 00:50:341 9 case, Dr. Bartulica, being the gynecologist, needs to 00:50:3820 give clearance from the viewpoint of a gynecologist, 00:50:4421 correct? 00:50:4422 Exactly. He's got to determine is this Α. 00:50:4623 patient going to be able to survive his surgical 00:50:5024 intervention and that postoperative course that goes 00:50:5425 along with that which includes his own estimations of

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00:50:56 1	risk, for instance, the estimated blood loss.
00:50:56 2	Q. And Dr. Celerio was the anesthesiologist
00:51:36 3	and he must give clearance
4	MS. TAYLOR-KOLIS: Joe, Joe, you've
5	got to start that sentence over because the court
6	reporter didn't catch the first part of it.
7	MR. FARCIONE: Can you hear me now?
8	MS. TAYLOR-KOLIS: No, we can't hear
9	you.
10	MR. FARCIONE: Can you hear me now?
11	Hello?
12	MS. TAYLOR-KOLIS: Okay. We can
13	hear you now.
14	MR. RISPO: Oh, I I think I know
15	what the problem is, Joe. Any noise on on our end
16	cuts you off, so we'll have to be more careful about
17	avoiding noise on this end.
18	MR. FARCIONE: All right.
19	Q. (BYMR. FARCIONE) Dr. Celerio was the
00:51:3620	anesthesiologist and he must give clearance from the
00:51:3821	viewpoint of anesthesia, correct?
00:51:3822	A. Correct.
00:51:4023	Q. What may be important to one specialty,
00:51:4224	whether it's part of the history, the physical exam,
00:51:4625	x-ray interpretation, or lab results, that may not be

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00:51:50 1 important to the other specialty in terms of 00:51:52 2 Is that a fair statement? clearance. 00:51:56 3 That's a fair state -- statement, but Α. 00:51:56 4 those issues are not necessarily mutually exclusive. 00:52:00 5 Q. Right. There could be some overlap --00:52:00 6 Exactly. Α. 00:52:02 7 Q. -- and there may be some exclusions, 00:52:04 8 correct? 00:52:06 G Α. That's right. 00:52:0610 Q. Doctor, you mentioned earlier that you 00:52:1011 review chest x-rays before surgical procedures. Did 00:52:1212 I remember that correctly? 00:52:1413 Α. In a -- in a subset of patients where I 00:52:1814 order them for specific reasons or there's issues 00:52:2015 related to that, yes. 00:52:2216 Ο. That's what I wanted to get clarification on. You've -- you've mentioned several times the 00:52:2818 word, quote, "ultimate," unquote, as it relates to 00:52:3219 Dr. Celerio. What do you mean by that? 00:52:3420 Did I use ultimate? Δ 00:52:3621 Ultimate decision-maker I think is what Q. 00:52:3822 you had said at one point. 00:52:4023 Okay. Well, independently, both the Α. 00:52:4424 anesthesiologist and the surgeon have to make a 00:52:4825 decision about whether the patient is suitable, from 119

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00:52:2417

00:52:50 1 their own perspective, of whether they go to surgery 00:52:52 2 or not. They cannot be cleared by a practitioner 00.52:56 3 that's not involved in that procedure. Hello? 00:53:06 4 Q. I'm still tying to understand what you 00:53:06 5 meant by ultimate decision-maker as far as 00:53:08 G Dr. Celerio is concerned. I'm not -- I'm not exactly 00:53:12 7 clear what you mean by that answer. 00:53:14 8 I guess it -- it would have to be read Α. 00:53:16 9 back to me in context. 00:53:2010 Ο. There's no point in going back on that 00:53:2211 after three hours here. 00:53:2412 Well, ultimately -- well, okay. Α. 00:53:2813 Q. Let me ask you this, Doctor. In your --00:53:3014 in your report you use some pretty strong language as 00:53:3215 it relates to Dr. Celerio. You call him reckless and 00:53:3616 you even make reference to a referral to the State 00:53:4017 Medical Board to report him and his conduct in this 00:53:4418 case. What specifically about his conduct do you 00:53:481 9 feel was reckless and something that should be 00:53:5220 reported to the State Medical Board? 00:53:5421 It was taken in context with the Α. 00:54:0222 deposition that he was -- that was taken. It was 00:54:0223 clear from the deposition that not alone did he not 00:54:0624 have a bad outcome in this case, but his basic 00:54:1225 understanding of the practice of anesthesiology is

00:54:18] very circumscribed, and so --00:54:22 2 Q. What basic understanding are you 00:54:24 3 referring to? 00:54:26 A His basic understanding in terms -- in Α. 00:54:28 5 terms of what the risks are associated with 00:54:32 6 perioperative MI's, what are -- he makes reference to 00:54:44 7 anesthetic agents as if they're all equal. Не 00:54:48 8 doesn't understand the significance of benign 00:54:54 G meningioma, et cetera, et cetera. 00:55:0410 Any other examples that come to mind? Q. 00:55:0611 Α. Pardon me? 00:55:0612 Q. Any other examples that come to mind? 00:55:101 3 Let me go through his deposition. Α. 00:55:141 4 0. There's no need to do that, Doctor. I'm *00:*55:161 **5** just looking to see what comes to mind right now, and 00:55:1816 if there's nothing else, then that's fine. 00:55:2017 Okay. Well, and that -- his phrase --Α. 00:55:3018 for instance, he makes reference to ECG. If we see 00:55:301 9 an ECG like this and the patient never -- says they 00:55:4020 never had an MI, then they're okay, and I'm 00:55:4221 paraphrasing him. That's clearly not in -- in step 00:55:4622 with the current medical practice, and I think it 00:55:5023 reflects on his punctuated or discontinuous training. 00:56:0224 Q. Discontinuous training meaning what, 00:56:0225 Doctor?

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00:56:04 1	A. His CV is is it's really hard to
00:56:08 2	follow his medical career.
00:56:14 3	Q. That's all I have, Doctor.
00:56:14 4	A. Okay.
00:56:16 5	MR. RISPO: Doctor, you have the
00:56:18 6	right to review the transcript of this deposition
00:56:20 7	before it's used at the time of trial, not to change
00:56:22 8	it, but to review it and make any corrections that
00:56:26 9	might have occurred if the court reporter missed a
00:56:2810	statement. You have the option, however, to waive.
00:56:32 <u>11</u>	It's entirely fine with us either way, but we have to
00:56:3612	ask you on the record what is your preference.
00:56:3813	MS. TAYLOR-KOLIS: Counsel advises
00:56:4014	that you read.
00:56:4015	THE WITNESS: Fine.
00:56:4216	MR. RISPO: Okay. The record will
00:56:4217	so reflect, and we'll conclude at this point.
18	(Deposition concluded.)
19	
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EDUCATIONAL EXPERIENCE

Michigan State University, E. Lansing, MI	B.S.	1982	Physical Sciences
Michigan State University, E. Lansing, MI	Ph.D.	1990	Physiology &
			Neuroscience
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PROFESSIONAL EXPERIENCE

1991-1992	Medical intern	Detroit Osteopathic Hospital
1992-1993	Research Fellow	Division of Anesthesia Research
		Mayo Clinic
1993-1996	Resident	Department of Anesthesiology,
		Mayo Clinic
1996-1997	Clinical Fellow	Critical Care Medicine,
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1997-present	Assistant Professor	Department of Anesthesiology
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1998-present	Director of Perioperative	Department of Anesthesiology
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AWARDS AND HONORS

1984-1991,	Fellowship from the Medical Scientist Training Program, College of Osteopathic Medicine, Michigan State University E.
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1989	Jack Hoffert Memorial Award for Outstanding Contributions as a Graduate Student in the Department of Physiology, Michigan State University E. Lansing, MI 48824
1992	Research Fellowship, NIH training grant in the Division of Anesthesia Research, Mayo Clinic, Rochester MN 55905

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PROFESSIONAL SOCIETIES

American Society of Anesthesiologists International Anesthesia Research Society American College of Chest Physicians Society for Neuroscience American Thoracic Society Society of Critical Care Medicine American Osteopathic Association American Medical Association

CERTIFICATIONS

ABA-Board Certified 10199 MEDICAL LISCEINCE Critical Care Medicine-Board Certified-11/99

Tennessee

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Donna Taylor-Kolis Donna Taylor-Kolis Co., L. P.A. Third Floor Standard Building 1370 Ontario Street Cleveland OH 44113-1701

Dear Ms. Taylor-Kolis:

I apologize for not getting this to you sooner. My travel and clinical schedules have been a bit hectic. I have accepted new clinical responsibilities at Vanderbilt and will become the Director of Critical Care for the Department, and thus my attention has been focused on making a smooth transition between the current Chief and myself.

Contained in the following pages is my detailed assessment of Dr. Celerio's performance as an anesthesiologist. I trust that I have his name spelled correctly, but it is hard to decipher in the records. In terms of his performance, there are several additional items that you may wish to inquire.

- 1. Is he a Board Certified Anesthesiologist?
- 2. When was the last time he renewed his ACLS training?
- 3. What Institution did he do his training at, and was he ever placed on academic probation?

Also included is my *Curriculum Vitae*, as you can see I am boarded in both Anesthesiology, and Critical Care.

The time it took to review these records and prepare and opinion was four hours. If I remember correctly, we agreed on \$250.00 per hour for this evaluation. You may send the check **to** my academic address. If you have any further questions I can be reached by email at the address listed (this is the preferred method), or if urgent by telephone at 615-343-6268. This is my secretary's telephone–she will know how to reach me.

Sincerely,

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Kenneth G. Smithson D.Q., Ph.D. Assistant Professor of Anesthesiology, Director of Perioperative Medicine,

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> DEPOSITION EXHIBIT

Donna Taylor-Kolis Donna Taylor-Kolis Co., L. P.A. Third Floor Standard Building 1370 Ontario Street Cleveland OH 44113-1701

Dear Ms. Taylor-Kolis:

I have reviewed in detail the medical records of Nancy Armstrong as it pertains to the care rendered by her anesthesiologist, Dr. Celerio during her intraoperative death on August 7, 1999.

My general impression is that Dr. Celerio did not perform a practice of anesthesiology consistent with the current standards as detailed by either the American Board of Anesthesiologists (ABA), or American Society of Anesthesiologists (ASA)–the two peer-reviewed societies which develop standard for the profession.

My impressions are based on the following observations and illustrate medical incompetence in the practice of anesthesiology.

Preoperative Evaluation:

Several documents throughout the chart clearly illustrate that the patient is developing symptoms of cardiac decompensation. This is also detailed in the pre-anesthetic self-assessment, by affirmative answers to question 1 of the respiratory review of systems, and questions 2, 6, 8, and 12 of the cardiac review of systems. Together these all indicate symptoms of severe cardiopulmonary decline.

This is further supported, by radiographic studies that demonstrate cardiomegaly and pleural effusions. (In fact in retrospect, the cardiac silhouette likely represents a pericardial effusion).

Even Dr. Celerio's own exam documents decreased breath sounds consistent with this effusion. Yet, I can find nothing in his notes that raise a specter of doubt, nor any integration of the patient medical history. Further evidence supporting this supposition is the abnormal SPECT scan on 4/20/99 which demonstrates dyskinesis of the left anterior wall, right ventricular hypertrophy, and an ECG consistent with a previous anterior infarction. He, however, makes no reference to these new studies, but does note a previous cardiac study but has not reviewed the results. Rather he depends only on the patient's own recollection of the study.

Operative Management:

Despite all the clues that this patient may have some cardiac dysfunction, Dr. Celerio's choice of induction drugs likely lead to the demise of the patient. Propofol was employed for induction; it has many desirable properties including fast redistribution and rapid wakeups. One of the most significant side effects of propofol is the decrease in cardiac contractility, and peripheral vasodilation, both due to alterations in the calcium handling by the corresponding cells. This can result in a precipitous fall in blood pressure. This is well known, and described in the literature.



It is not the drug of choice for a failing heart. We have other induction agents that are much better suited in these situations (e.g. etomidate).

This significant side effect of propofol was demonstrated in the case of Nancy Armstrong. Immediately following induction with 200 mg of propofol the patient's blood pressure dropped 60 mmHg (systolic) within a matter of a few minutes. Clearly, this was not well tolerated by the patient, and represented a somewhat exaggerated response to this amount of propofol. Despite this, the patient remained on nitrous oxide while the blood pressure was falling precipitously.

Code Management:

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In my mind, the "code" began when the patient's blood pressure fell dramatically. This was not a normal response to a propofol induction and heralded an impending cardiac arrest. This started, per the anesthesia record, many minutes before an intervention was initiated. Dr. Celerio was not vigilant. At 11:55 the patient's blood pressure dropped to 80/35. At this point, the patient's large hypertrophied ventricle was no longer perfused; since blood flow to the left heart muscle occurs in diastole. It was not until 12:03 that therapy was initiated. As it turned out this delay was unrecoverable, and the patient developed a significant bradycardia.

The choice of therapy during the resuscitation depends critically on your insight of the underlying problem. The success of the code (assuming a reversible process) also depends on the rapidity with which the therapies are initiated. Per the code records, it took 10 minutes to initiate one therapeutic maneuver-one dose of ephedrine, and to then turn off the nitrous oxide. Thus from 11:55 to 12:10, fifteen minutes of gross hypoperfusion to the heart took place with one dose of ephedrine given as the sole therapy. This would not be considered a reasonable standard of practice. Other therapeutic maneuvers should have been undertaken, more quickly, and sooner in the patient's decline. The fact that Dr. Celerio likely lacked insight into the patient pathophysiology severely hampered his ability to care for the patient. Unfortunately, all the clues were in the patient's medical record.

The remainder of the code was uninspired. I'm surprised that epinephrine (a drug that is readily available in all anesthesia and code carts) was never employed. In hindsight, Mrs. Armstrong had likely developed either tamponade physiology due to her pericardial effusion, or acute right heart failure-both of these should be treated with aggressive fluid resuscitation and epinephrine, or phenylephrine.

The code was called at 13:02 after only 1400 cc of fluid had been infused over the hour that the code had taken place. This is not an adequate resuscitative effort.

It is not clear from the records why the code was terminated. My only clue is the reference to fixed and dilated pupils, yet this is not a reliable sign after atropine is given. Atropine will fix and dilate the eyes. The unfortunate fact is that because the patient was given propofol on induction (a dose high enough to render the brain silent) the patient could tolerate a much longer period of hypoperfusion. This sad fact opens the possibility that the patient may have still been alive when the code was called.

Summary:

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In summary, my review of Dr. Celerio's conduct of the practice of anesthesiology find him grossly deficient in relationship to a nationwide standard of practice as detailed by our governing bodies.

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Sincerely,

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Kenneth G. Smithson D.Q., Ph.D. Assistant Professor of Anesthesiology, Director of Perioperative Medicine, 504 Oxford House Department of Anesthesiology Vanderbilt University Nashville, TN 37232 <u>kenneth.smithson@ncmail.vanderbilt.edu</u> <u>kgsmithson@horne.com</u>

1	CERTIFICATE
2	
3	I, B. J. Davis, Certified Shorthand
4	Reporter and Notary Public, State of Tennessee at
5	Large, do hereby certify that I recorded to the best
6	of my skill and ability by machine shorthand the
7	deposition contained herein, that same was reduced to
а	computer transcription by myself, and that the
9	foregoing is a true, accurate, and complete
10	transcript of the deposition testimony heard in this
11	cause.
12	I further certify that the witness was
13	first duly sworn by me and that I am not an attorney
14	or counsel of any of the parties, nor a relative or
15	employee of any attorney or counsel connected with
16	the action, nor financially interested in the action.
17	This 16 day of eptember, 2001.
18	
19	
20	22
21	B. J. Dauis
22	D. J. DAVIS
23	My Commission Expires:
24	
25	November 30, 2002
	CLEETON DAVIS COURT REPORTERS, LLC. 124

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