Dentists & Pert dictor depo 43421.1131.948<sup>2</sup> 1 IN THE COURT OF COMMON PLEAS 2 OF CUYAHOGA COUNTY, OHIO ,0°.315 3 Karla Spehar, a minor 4 etc., et al., 5 Plaintiffs, 6 Case No. 157883 vs. 7 Jeffrey J. Orchen, DDS, 8 Inc., et al., 9 Defendants. 10 Deposition of (DENNIS MCTIGUE, DDS, 11 a witness herein, called by the Defendant for 12 13 direct examination under the statute, taken before me, Kathryn E. Smith, a Registered 14 Professional Reporter and Notary Public in and 15 for the State of Ohio, by agreement of counsel 16 17 and without notice or other legal formality, 18 at the Ohio State University College of Denistry, 305 West 12th Avenue, Columbus, 19 20 Ohio, on Tuesday, November 13, 1990, at 8:40 21 o'clock a.m. 22 23 24 RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

Ī	ANCES:
2	Ziegler, Metzger & Miller 1900 Huntington Building
3 1	Cleveland, Ohio 44115 By Mr. Timothy Bittel,
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5	On behalf of the Plaintiffs.
6	Weston, Hurd, Fallon, Paisley, Howley
7 1	2500 Terminal Tower Cleveland, Ohio 44113
I	By Ms. Deirdre G. Henry,
8	On behalf of Dr. Orchen, DDS,
9 1	individually and Dr. Orchen, DDS, Inc.
0	Baker & Hostetler
1	3200 National City Center Cleveland, Ohio 44114
2	By Mr. Patrick Jordan,
3	On behalf of the Defendant,
4	Sherwood Medical Co.
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West Storest 1 Tuesday Morning Session 2 November 13. 1990 3 8:40 o'clock a.m. 4 5 It is stipulated by and between 6 counsel for the respective parties that the 7 deposition of DENNIS McTIGUE, DDS, a witness 8 herein, called by the Defendant for direct examination under the statute, may be taken at 9 10 this time by the Notary, by agreement of 11 counsel without notice or other legal 12 formality; that said deposition may be reduced 13 to writing in stenotypy by the Notary, whose notes may thereafter be transcribed out of the 14 15 presence of the witness; that proof of the 16 official character and qualification of the 17 Notary is waived; that the signature of the said DENNIS MCTIGUE, DDS to the transcript of 18 his deposition is expressly waived by counsel 19 and-the witness; said deposition to have the 20 same force and effect as though signed by the 2 1 22 said DENNIS MCTIGUE, DDS. 23 24 RUNFOLA & ASSOCIATES (614) 445-8477

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1 DENNIS MCTIGUE, DDS 2 by me first duly sworn, as hereinafter 3 certified, deposes and says as follows: 4 MR. BITTEL: Maybe we should 5 indicate for the record that we have assumed that we are just going to go forward. 6 Mr. 7 Yordan is not here. And he can -- I don't think we'll have a problem, right? 8 9 MS, HENRY: I don't think so since 10 we have a time parameter. 11 CROSS-EXAMINATION 12 13 BY MR, BITTEL: 14 Q. Doctor, good morning, my name is Tim Bittel, I represent the plaintiff, Karla 15 16 Spehar. I think you know that, right? 17 Α. Right. I understand you are going to 18 Q. provide some expert opinions on behalf of Dr. 19 Orchen in this case. 20 That's correct. 2 1 Α. 22 You are the chairman of the Q. 23 pediatric dentistry department here at Ohio 24 State? RUNFOLA & ASSOCIATES (614) 445-8477

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That's right. 1 Α. 2 Q, Is it true that you are not going to 3 express any opinions concerning malignent 4 hypothermia? 5 Α. That's true. Is it true that you are not going to 6 Q. express any opinions concerning the level of, 7 concerning the actions of Dr. Indresano? 8 Right. 9 Α. 10 Q, Are you going to express any 11 opinions concerning the standard of practice that an oral surgeon is supposed to follow in 12 13 the removal of a dental needle fragment broken 14 off in someone's gum? 15 Α. No. 16 Is it my understanding that in your Ο. 17 16 years of clinical practice and teaching 18 you've never had a needle break or known of an 19 incident breaking, incident where a dental 20 needle broke? That's correct. Directly in any 21 Α. 22 clinic that I was working or associated with. 23 Q. Have you heard some anecdotal events 24 about needle breaking? RUNFOLA & ASSOCIATES (614) 445-8477

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RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION	Tim. Improper technique in giving the	A. It's a hard question to answer,	by the dentist making the injection?	needle or second being an improper technique	use: one being a defectively manufactured	two reasons for a dental needle to break in	fibrotic tissue is encountered, there are only	the needle to break and where no unusally	does not move or jerk suddenly so as to cause	Q. Would you agree that where a patient	A. Yes.	occurrence?	that a broken dental needle is a very rare	Q. Would it therefore be your opinion	needle is not one that I've ever encountered.	problems discussed in cases, and a broken	meetings and things. Obviously there are	pediatric dentist when we meet and go to	involvement. I've never talked with a	disposable needles. I don't have any direct	e whout them happening prior to the wavent of	dental school days and hear of people talking	I would I mean I can harken back to my	A. To be perfectly honest, I haven't.

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1 injection to cause a needle to break, it's a 2 hard thing to imagine for me. My experience has been in treating young children, 3 uncooperative children, and particularly in 4 treating handicapped children and adults, 5 maybe mentally retarded people who at times 6 7 have been quite uncooperative, you know, they 8 don't understand what's happening. 9 So I've had many occasions where 10 I've given injections where the patient has 11 moved and I would have to say that in that 12 case, my technique wasn't the greatest because 13 of the patient moving in the middle of it and 14 having had it happen. What I'm trying to tell you is that if, to break a needle would be a 15 very difficult thing to do. If you were 16 trying to use a technique that was wrong to 17 break a needle it would be a difficult thing 18 to do. 19 20 I'm not talking about handicap Q. people and specifically in the Karla Spehar 2 1 22 case. 23 From what you have seen, am I 24 correct in saying that you know all of the RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

evidence in the case, that she was a 1 cooperative patient, that she did not move or 2 jerk? 3 That's what I read. Α. 4 Q, Assuming that a patient, such as 5 1 Karla Spehar was cooperative, was still, did 6 not jerk or move abruptly and that the dentist 7 did not encounter unusally fibrotic tissue, 8 under those assumptions, would you agree that 9 you can only conceive of two possible reasons 10 for a dental needle to break, one being a 11 12 defective needle or two, being some improper technique by the dentist? 13 14 Α. Again, I'm going to have to tell 15 you, I don't know what the improper technique 16 by the dentist would be, I've never encountered that. 17 18 Under those circumstances, what Q. would be your opinion as to the needle 19 breakage? 20 In my opinion, a needle had to be 21 Α. 22 defective. If this child was a cooperative 23 child and he utilized the technique which he described, which is the classic way to, you 24 RUNFOLA & ASSOCIATES (614) 445-8477

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RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION	Q. That's all right. I'll go on and	would be easier than my trying to remember.	deposition, Tim. If you can brief me, that	A. I would have to re-read his	where the needle broke off?	how many times Dr. Orchen palpated the area	many times, your factual understanding as to	Q. What is your understanding as to how	thing to break.	improper technique would be to cause that	be true. Because I can't imagine what the	A. To be perfectly honest, that would	the defective needle?	is that you can only conceive the one reason,	encounter unusally fibrotic tissue, the answer	still and cooperative and the dentist didn't	in the case where a patient like Karla was	there being two reasons for a needle to break	Q. So the answer to my question about	that would happen.	needle causing to break, I can't imagine how	can't imagine anything other than a defective	that, and she didn't resist or anything, I	know, to do a mandibular injection, if he did

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we'll get to it. If Dr. Orchen, if the 1 sequence were as follows: Dr. Orchen makes 2 3 his injection, the needle breaks off and if immediately after the time the needle broke 4 off, he palpates the area and says that he can 5 feel the needle, would that, in your opinion, 6 7 be an appropriate time for him to attempt to retreive the broken needle fragment? 8 9 Α. Why don't you repeat that. I was 10 distracted. 11 MS, HENRY: Let's stop. 12 (Discussion off the record.) 13 (Mr. Jordan has entered the room.) BY MR. BITTEL: 14 15 Q. Doctor, I will just restate the question. If the sequence in this event has 16 the needle breaking and then if Dr. Orchen, 17 immediately after the needle breakage, 18 19 palpated the area and verbalized and said that 20 he could feel the needle fragment, in your 2 1 opinion, would that have been an appropriate time for him to attempt the removal of the 22 needle fragment? 23 24 The needle separates, he feels it, Α. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 when he goes back there to feel it, he feels 2 it? 3 Q, Yes, sir. Α. Sure, that would be the appropriate 4 5 time. 6 If he said he could feel it, Q. immediately after the needle broke off, but 7 removed his finger from palpating the area and 8 proceeded then to do the tooth restoration, 9 10 would that have been an inappropriate action? If he felt it and decided to leave 11 Α. 1 2 it and go prepare the tooth, would it have 13 been inappropriate? Q. Yes, sir. 14 15 Α. I think it would have been contrary to common sense. It's, good clinical common 6 17 sense would dictate, if you can feel it and 18 it's there, that would be the time to take it 19 out. 20 Q. .... Would it have been contrary to the 21 standard of practice in dealing with this rare 22 situation? 23 Α. You see that's an interesting When you say standard of practice, one 24 point. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 could infer that, that things have been written or documented and that there's a 2 3 protocol published and well referenced regarding, you know, taking out needles and 4 5 there isn't ones that are sitting there. But I'm just, so all I can tell you 6 7 is that it would be contrary to good clinical 8 judgment to break a needle and to be able to 9 feel it and to not take it out immediately. 10 And the reason for that is because Ο. under that hypothetical situation, and if he 11 12 could feel it immediately, he would have presumably had the highest probability of 13 getting it recovered at that time? 14 Sure, it would be the easiest time 15 Α. 16 to get it. Okay. You indicated in your report 17 Ο. 18 that he made, he did not make much 19 manipulation. I believe those are the words 20 that you used. Tim, could you site him 21 MS. HENRY: 22 to the part? 23 MR. BITTEL: Sure. 24 Q. Doctor, it's on the first page, the RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 very last paragraph, the third line up from the bottom, he tried to find the needle 2 without much manipulation of tissue and 3 4 failing that --This is after he made the incision? Α. 5 6 Q, Yes, sir. 7 MS. HENRY: After he proceeded to 8 are we talking about the manipulation he did 9 initially when he thought he felt the needle and then proceeded to care for the tooth and 10 11 then later went back, is that what we are 12 talking about? 13 MR, BITTEL: That's what I was going 14 to ask. MS. HENRY: 15 Okay. 16 BY MR. BITTEL: 17 0. Where you talk about manipulation, do you refer there to the manipulation within 18 19 the incision that Dr. Orchen made? 20 Α. He then removed it and made a small 2 1 incision where he thought the needle entered, 22 he tried to find the needle without much 23 manipulation of the tissue. My recollection 24 is that he said he was careful, that he -- I RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

would have to paraphrase it. What I got from 1 that is he made an incision and then gently 2 tried to find it to see if it was right 3 That was my impression from reading 4 there. 5 the deposition. б In surgical technique, depending on 7 who the surgeon is and what the technique is, you might very aggressively lay tissues back, 8 9 if you got to get way over there and you are way up here superficially, you may move 10 tissues apart rapidly and get down there, 11 My impression from his deposition 12 was he made this incision and was quite ginger 13 in trying to detect the needle. And it didn't 14 appear to me that he did a very aggressive 15 manipulation of the tissues. My impression 16 was that he was trying to see if it wasn't 17 right submucosal, right under the tissue. 18 And that finding that it wasn't right there, he 19 didn't do much else. He just took the child 20 to the oral surgeon. That's how I interpreted 21 it. 22 23 Whose depositions do you have copies 0. 24 of there?

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1 Α. I have Dr. Hauser's and Dr. 2 Orchen's. 3 Q. If I were -- strike that. My understanding is that Dr. Orchen 4 5 says he made an incision about, of about a 6 half an inch; is that your understanding? 7 That's what I remember reading. Α. 8 Ο, If Dr, Orchen explored within that 9 half inch incision for five minutes with a 10 hemostat, would that be, in your opinion, an 11 excessive amount of exploration in that small 12 incision? 13 Well, I guess the amount of time Α. doesn't really have anything to do with how 14 15 much you manipulate the tissues. I mean you 16 could sit and look for five minutes and not 17 even touch it. It would be more, a better 18 indicator would be how deep, you know, he 19 proceeded with the instruments, not really how much time he looked at the incision. 20 That 2 1 certainly isn't a very long time to fool with 22 it. Q. Okay. 23 24 He couldn't have done very much in Α. RUNFOLA &, ASSOCIATES (614) 445-8477

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five minutes. My impression was he wasn't 1 very aggressive; he didn't go very deep; he 2 just looked submucosal. 3 4 Q. Dr. Indresano has indicated Okay. to us that when he saw the, saw Karla, the 5 needle had migrated to approximately three 6 centimeters below the surface of her gum 7 tissue. If that's true, would you agree that 8 9 it is probable that Dr. Orchen's surgical 10 attempt to remove and manipulation of the area caused the migration of the needle? 11 12 MS. HENRY: Objection. I wouldn't 13 call it surgical. 14 Well, his incision. ο. 15 No, I would not agree. You said 30 Α. 16 millimeters? No, sir. Three centimeters. 17 ο. That's 30 millimeters. 18 Α. All right. 19 Q. Three centimeters is over an inch. 20 **A** . And I would not agree. In fact, I would 21 22 disagree strongly with that. From what I read of what Dr. Orchen did, it sounded like a very 23 24 gentle manipulation of the tissues. To push RUNFOLA & ASSOCIATES (614) 445-8477

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something an inch or inch and a half into the 1 2 tissues would be a force that would be different than what I read in, from what Dr. 3 Orchen did. 4 Ο. Well, if the sequence in this event 5 is that the needle breaks off; Dr. Orchen 6 manipulates the area twice with his digits; 7 8 he does the tooth restoration --He feels for it? 9 Α. Yes, sir. He feels for it twice; 10 ο. 11 he does the tooth restoration; he makes the 12 half inch incision and he palpates the, excuse me, yeah, he palpates with the hemostat. 13 And that she's then taken to Dr. Callahan in the 14 building who does no technique other than to 15 look at it, and I believe he indicated he ran 16 his finger gently down the gum line. 17 Dr. 18 Callahan takes an x-ray and then they refer 19 her to Indresano at Metro. Under those 20 circumstances, would you agree that there's no other force being applied to this girl that 21 would cause the needle to migrate three 22 centimeters? 23 No other force? 24 Α. RUNFOLA & ASSOCIATES (614) 445-8477

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1 а. Yes, sir. MS. HENRY: Objection. 2 Α. I don't know. 3 Q. Under that hypothetical. Obviously 4 you are not a fact witness. 5 6 Well, I think the issue there is the Α. migration of the needle is a function of the 7 movement of the child's mandible and the 8 9 muscles that insert there. And it could be. And I don't know, I don't know really anything 10 11 about what causes a needle to move through 12 tissues. But it is certainly reasonable that 13 the normal function there could have caused migration of the needles. 14 The muscle that inserts on the 15 16 mandible right where the injection is given is 17 a muscle that's very active in the opening and 18 closing **of** the mandible, of the jaw. So I 19 mean there's an awful lot of activity in that 20 And I mean it's reasonable to assume are.a. that could have caused it as well. 21 Maybe I'm asking you questions 22 Ο. 23 frankly that are beyond your expertise. You 24 said that you don't know anything about what RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

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RUNFOLA & ASSOCIATES (614) 445-8477	while Dr. Orchen was working on Karla, and if	that a mother was sitting in the waiting room	Q. If I asked you further to assume	A. Yes.	do you understand that to be a fact?	had no experience in removing a broken needle,	had never encountered a broken needle and he	the time the Karla Spehar event took place, he	you understand that he has testified that at	Q. You read Dr. Orchen's deposition, do	judgment in doing that.	A. I think he exercised good clinical	restoration as he did?	Dr. Orchen to take the time to do the	Q. Therefore, it was appropriate for	A. No.	to be a dental emergency?	of the dental needle in the Karla Spehar case	Q. Okay. Do you consider the breaking	A. Yeah, I think that's true.	Karla Spehar case?	about what caused the needle to migrate in the	true that you don't have any expert opinions	causes needles to migrate. Is it therefore

this was not a dental emergency and Dr. Orchen 1 had the time to do the tooth restoration, 2 would you agree that the exercise of pediatric 3 4 dentistry within the appropriate standard of 5 care would have required and did require Dr. Orchen to consult the mother, to tell her that 6 7 this rare event had taken place, namely the needle breakage, to tell her that he had never 8 9 encountered this, to tell her that he had 10 never attempted a needle removal, a broken 11 needle removal, and to obtain her consent for 12 the further treatment that he undertook? 13 MS. HENRY: Are we talking about 14 completing the restoration or what are we 15 talking about, further treatment? 16 Q. Let me rephrase the question. Under 17 the circumstances of Karla Spehar, we've 18 agreed that this is a rare event, correct? 19 Α. Yes. 20 And assume that Dr. Orchen never 0 . .. encountered a broken dental needle before, 2 1 22 assume that he had never had any experience in 23 removing a dental needle, assume that this was 24 not, as, according to your opinion, a dental RUNFOLA & ASSOCIATES (614) 445-8477

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emergency and assume that he did have 1 sufficient time to go ahead and complete the 2 3 restoration, under those circumstances, would you agree with me that the proper standard of 4 pediatric dentistry required Dr. Orchen to 5 6 make those disclosures to Mrs. Spehar who was 7 in the waiting room and to obtain her consent prior to the time he undertook an attempt to 8 9 remove the needle? Well, it's more, I don't think that 10 Α. 11 can be answered with a yes or no, Tim. And 12 the reason is the principle that one should follow at that time, I think, is the best care 13 for the child. He had time to do the 14 restoration. And as I said before, I think 15 16 that was a prudent thing for him to do. He did that without leaving the child's side. 17 18 And he was able to control that child the whole time. 19 This is the child's initial 20 restorative appointment, meaning the first 2 1 time the child had ever had an injection and 22 23 he had control of her physically and he had, 24 emotionally had her under control as well. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

MAN STRATE 1 And if he, at the time, felt that leaving her to go out, you know, Just to leave her to go 2 out and talk to mom would put her at risk for 3 starting to cry or to move around or do 4 5 something like that and make it more difficult for him to retreive it, then I can understand 6 why he made the incision that he did. 7 The other thing is that the extent 8 9 of treatment that he provided was minimal. mean he made a superficial incision. And from 10 11 my understanding, didn't manipulate the tissues much. And if he had made a lengthy 12 incision and was laying flaps back and all 13 that sort of thing, it would be a different 14 15 thing. But I think that what he did was 16 within the standard of practice. He made a 17 clinical Judgment based on the child's 18 behavior and the situation at the time. 19 20 Q. So your answer is that he didn't have to make those disclosures to the mother 2 1 22 to practice within the standard of care? MS, HENRY: Before he completed 23 24 them? RUNFOLA & ASSOCIATES (614) 445-8477

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1 Before he made the incision and an Ο. 2 attempt to remove the needle. My answer is that, you know, I 3 Α. 4 cannot guess what was going on in the operating room, in the operatory at the time. 5 But that if he felt that leaving the operatory 6 7 and leaving that child, if that would, if that would have contributed to her becoming less 8 cooperative or something, he would break the 9 communication he had with her; if he felt 10 that, then I would agree that his staying in 11 12 the operatory and doing the procedure that he 13 did was within the standard of care. The issue is, would be a different 14 15 one if we were talking about an adult or older child. And this is something that hasn't been 16 factored into it. I've seen it. 17 This is a rookie three-year-old, who, he demonstrated 18 good technique in managing her behavior. 19 And there's a risk incurred if he leaves the 20 child's side. 21 If he felt that her behavior could 22 have changed by his leaving, then I think he 23 stayed within the standard of care by staying 24 RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

with her. 1 2 Q. My understanding from your report, 3 I'm on the second page now, the second full paragraph is that students were cautioned to 4 use long needles and not to inject to the hub 5 to facilitate retrieval of broken fragment. 6 Ι quote that. That's part of your report, 7 correct? 8 Students were cautioned to use long 9 Α. 10 needles and not to inject them -- yes. Q. 11 Is it your --12 MS, HENRY: Twenty years ago, right? 13 14 Q , That's what I'm going to ask. It's 15 your testimony that at some time in the past students were taught not to inject needles to 16 17 the hub. And to use long needles, so that if a needle broke off then the fragment could be 18 19 easily retreived; is that right? 20 Surely they were then. I'm not A. --21 saying that they are not taught that now. I'm 22 saying that it was a more pertinent issue when 23 there was a greater risk, when it was a 24 greater occurrence. Then there was more RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

attention, probably more curriculum time spent 1 on teaching people the technique. 2 3 Q, Well, what is taught now concerning 4 whether a needle should be injected all the way to the hub? 5 I don't give the lecture on 6 Α. anesthetic technique, though we do lecture to 7 students about technique with children. 8 Frankly, we don't spend an awful lot 9 of time talking about it to tell you that we 10 11 tell them do not inject to the hub. Routinely 12 that doesn't come up. We tell them how to 13 give the injection. And under normal circumstances, you don't need to inject to the 14 15 hub. 16 But if you are asking me do we get 17 up in front of the class and say now be 18 careful, don't inject to the hub because if 19 you break off the needle you'll have a hard 20 time removing it, no, we do not teach that. 2 1 Q. Will you agree that the current standard of dental practice and standard which 22 applied in 1987, October provided that 23 ordinarily a pediatric dentist would not 24

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1 inject a needle all the way to the hub? Again, you keep saying standard of 2 Α. practice. In clinical practice, based on 3 what, you know, you confront clinically, you 4 inject the needle to the correct position and 5 deposit the solution. And ordinarily you 6 don't need to take a needle to the hub. 7 8 But certainly there are occasions 9 that do occur where you do take the needle to 10 the hub. And you don't sit there and say 11 gosh, I'm going to have to go to the hub on this needle, let me take it out and put on a 12 13 longer needle and reinject this child so I don't take it to the hub because I'm afraid it 14 15 might break. That is not a consideration 16 clinically. So you choose a needle that you use consistently and if on occasion it goes to 17 the hub, and that's not a very frequent 18 occasion, but if an occasion occurs, it does. 19 20 And I would suggest that most 21 pediatric dentists have done that. It's not 22 unusual. I mean it's not unheard of, let me 23 say that. And it's not in violation of the 24 standard of practice to inject to the hub RUNFOLA & ASSOCIATES (614) 445-8477

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7 00	ncern èn use; ès that true <sup>g</sup>
	MS XENRY: Coul <b>p</b> I hear that
nb - 6	estion back again?
20	Let me rephrase it. Your opinion is
21   th	at needle breakage is not a realistic
с 0 5 7	ncern in today's dental practice?
23 A.	When you say "realistic concern,"
24 16	t me say that it's not a frequent occurrence

and it's nothing that, it's nothing that we 1 2 spend a lot of time teaching our students 3 about, our dental students or pediatric dental residents about. 4 5 Q. Okay. Let me put it in terms of curriculum 6 Α. 7 time then. It's a rare occurrence. There are 8 many very rare things that, pathologic 9 situations, traumatic injuries, things like 10 that that occur over a population over a 11 period of time. And in a curriculum, you 12 don't teach, you can't pick out all the most 13 rare things to teach about. You teach and you 14 practice to deal with those problems that 15 occur regularly. So needle breakage is just 16 something that is rare and as you've seen, 17 many, many practitioners today don't 18 encounter. 19 But needle usage is very, very Q, 20 common? 2 1 Α. Sure. Absolutely. 22 Ο. In fact, it's essential for every 23 dental procedure, other than simple 24 prophylaxis, hypodermic dental needles are RUNFOLA & ASSOCIATES (614) 445 - 8477 COMPUTERIZED TRANSCRIPTION

in a second

used? 1 2 Α. That's not exactly true. Particularly for pediatric dentists. 3 There 4 are things that are done. For restorative sorts of visits, surely. 5 6 Q. All I'm trying to understand is There, I presume there must be some 7 this: frequency of needle breakages that would 8 9 change your opinion as a professor as to what 10 you should be teaching student dentists. Sure. 11 Α. There is some threshold. And 12 if there were a rash of needle breakages, if 13 there was a rash of new disease or new traumatic injuries or things like that, then 14 15 we would say this is an issue that's merited enough importance to really emphasize in our 16 17 training programs. Sure, that's common sense. 18 Now if I were to tell you that as an Q. 19 example, Sherwood had five reports of needle 20 breakages in a given year, would that be 2 1 significant to know as a professor of 22 dentistry? I would need more data, Tim. 23 Α. That doesn't mean much. 24 I don't know how many RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

needles they sell. If you told me how many 1 injections were given, and then how many 2 3 needles broke on those injections, then I 4 could make a better guess, But I guess that 5 certainly didn't impress me as a very large 6 number, given the number of injections that are given in a year. 7 8 Q. What needle do you teach students to use here for mandibular blocks on children? 9 Twenty-seven-gauge short, about one 10 Α. inch. 11 12 Have you ever used any other needle, Q. you personally, for mandibular block on 13 children? 14 15 I've used other needles. When you Α. 16 say "children," I guess it basically depends 17 on the size of the patient. I would routinely use a long needle, inch and a quarter needle 18 19 on a large adolescent, teenager sort of 20 But in kids that are kind of, that are thing. smaller than that, we use 27-gauge shorts. 21 22 What's the risk of using the Ο, 23 27-gauge long on children? The risk, I think it's a matter of 2.4 Α. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

preference. It's a longer needle, **so** you 1 2 have, you have less control intraorally. Ιf it's shorter, you have a little bit more 3 ability to move it around and not have it 4 5 standing out as far. There may be a 6 psychological component to the length of the 7 needle. I probably wouldn't buy that too much. It's a matter of control. It's safe 8 and effective. 9 10 I didn't mean to cut you off. ο. It's just safe and effective. 11 Α. It's 12 plenty long enough to do what we need to do 13 with it. It's a matter of preference, Tim. 14 Ο. Okay. It's the needle that we teach here 15 Α, and it's the needle that we used at LSU for 16 17 kids. 18 Are you familiar with any written Ο. standard that would suggest that a 27-gauge 19 20 short needle be used for mandibular blocks on children? 21 22 Well, it's in textbooks. Α. 23 That's what I'm asking you. Can you Ο. 24 reference me to a textbook that says you RUNFOLA & ASSOCIATES (614) 445-8477

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12	millimeter length That's the short Not
 1 3	only is it well suiter for the infiltrater
14	technåques eaplogen, vut its length ankes et
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16	ргосериста Шћат и напијастаос
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18	apwocateB wae of a 25-gauge short neeple for
19	this purpose Pelieuing the larger <b>D</b> immeter ès
20	aore e≲≷ectiwe It is therefore, a matter of
2 1	personkl choice as to shzw prefwrwncw
5 2	Interesting we wrote a textbook
5 3 5	SPERTRI OF UB PERP and SP OF DA't PERT
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1 I read it last night. Q. 2 I looked at it and I thought my Α. gracious, we didn't even put it in there. 3 Т 4 guess it's because whether you use a 25-gauge or 27-gauge long or short, there's really no 5 б science to dictate what is -- there are 7 several others here that say the same thing. 8 This is a book by Steven Wei, '88, 9 Pediatric Dentistry Total Patient Care. The 10 most common gauge needles used in dentistry are 25, 27 and 30, and the two most common 11 lengths are 1 inch and 1 1/2 inches. Long 12 needles,  $1 \frac{1}{2}$  to  $1 \frac{5}{8}$ , are frequently 13 recommended for the inferior nerve block 14 15 anesthesia. Again, that's mandibular. 16 However, the clinical experience has 17 shown that short or one inch needles are 18 adequate and safe for nerve block anesthesia in children and are especially recommended for 19 20 use in young, difficult to manage children. 21 Then others will say use 25- or 27-gauge long 22 or short. 23 So it's a matter of opinion by the Ο. 24 practitioner? RUNFOLA & ASSOCIATES (614) 445-8477

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Yes. And I would tell you that I 1 Α. think somebody is practicing within a general 2 3 standard of care if they use any of those. Now if you have someone who is using a 23--4 qauge needle, I would have to be surprised 5 about that. You can find a lot of people 6 using needles. 7 8 Q. On the textbook, you wrote several 9 chapters in Pediatric Dentistry, Infancy 10 Through Adolescence; is that true? 11 I wrote them and then I edited a Α. 12 section. Which section did you edit? 13 Q. Let me see what I did. I think it's 14 Α. called Section 2, The Primary Dentitioners. 15 16 Section 2, The Primary Dentitioners, so that included Chapters 16, 17 -- Chapters 16 17 18 through 27 I edited. And that meant that I basically stayed in contact with the authors 19 20 and kept them on line and, time line and all that. I didn't have any creative effort in a 2 1 lot of those chapters. 22 23 Do you use in your practice magnetic Q. 24 resonance imaging? RUNFOLA & ASSOCIATES (614) 445-8477

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	r -
	A No.
~~~~	Q. As far as whet is and I think we
 ო	cowered this before, I want to mak clear
4	though, as far as what is the acce te <b>n</b>
 س	protocol for the removal of ) broken dental
 9	needle by an oral surgeon <i>, r</i> ou аже not
Ľ	expressing an opinion on that; is that true?
	A. That's correct.
6	Q. Have you been involved strike
10	that.
 - - -	You wrote some chapters on dental
12	trauma in this pediatric dentistry book.
 1 3	A. That's correct.
14	Q. Have you personally been involved as
 22 74	a clinician in treating children who have been
16	involved in various dental traumas?
17	A. Many times.
	Q. And you describe in your book the
 1	techniques Sor træating warious traumas_
50	including the removal of broken toot <b>b</b>
2 1	fragments in the lips gou deal with that?
5	A Yes.
2 3	Q Is there, have gou upwated this
24	book? This is sort of recent, it's 1988 Xas
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~~~~	publication?
 ო	A. No. That's the most recent issue.
4	Q. The stenwarws of prectice that yo
 ഗ	write about in Chapter 14 styled as
9	Introduction To Dental Trauma, Managing
7	Traumatic Injuries In The Primary Dentation
	A. What page are you on?
 б	Q. I'm just asking about the chapters,
	the standards of practice that you discussed
	in Chapter 14 of this book, and also in
~~~~	Chapter 33 called Managing Traumatic Injuries
 ო	In The Young Permanent Dentation, are those
ч 	still accurate to the best of your knowledge?
 ഗ	A. Right. There hasn't been an awful
	lot changing in this.
	Q. The techniques that you describe in
	those chapters are the techniques that you
 ი	believe are applicable to be followed by a
0	pediadentist today and in 1987?
	A. I don't think there's anything in
~	here that was that controversial, that things
 m	have changed that much. Maybe restorations of
4	teeth, there's some new materials out that

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3 8 8

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and the second states 1 come out all the time that maybe we would 2 update. I would say by and large, this is still pretty current. It's kind of general 3 stuff. 4 Q. And further, what I'm trying to 5 determine, this book was published in 1988. 6 7 I'm assuming that you would have been writing 8 it in 1987; is that true? 9 Α. Yes. 10 Ο. The standards that you talk about, 11 and particularly in those two chapters that 12 you wrote, Chapters 14 and 33, they would have been applicable standards of practice in 1987 13 14 also; is that true? 15 Yes. I think that the terminology Α. has changed on some things in that Chapter 14 16 17 as I look at it. But it's pretty general The textbook is, it's difficult -stuff. 18 19 well, obviously it's published once and it's 20 gone. But the stuff that we wrote about in 2 1 these chapters is pretty general. I don't 22 think it's changed that much. It's materially the same. 23 24 Specifically the suggestions and Q. RUNFOLA & ASSOCIATES (614) 445-8477

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1 recommendations that you made for the use of 2 radiographic examinations in those two chapters are still appropriate and were 3 appropriate as a standard of care in 1987; is that true? 5 Yeah, I think so, Tim, I think so. 6 Α. 7 Nothing has changed significantly. 8 Q, Would you agree that if a long 27-gauge needle were used in a mandibular 9 10 block, there would be a higher probability 11 that in the unlikely event of breakage it could be retreived easily? 12 13 Α. I don't have any way of knowing if it could be retreived easily. 14 I don't know, 15 it depends on where it breaks, I quess. 16 Q . Do you have an opinion as to whether or not, if a dental needle breaks, they 17 typically break at the hub or don't you know? 18 19 Α. I wouldn't, I've read this stuff and 20 I've read that it says the hub, but I don't 2 1 have any direct knowledge. And I haven't read 22 any studies that have done stress tests on 23 them to show you. I can tell you that I've 24 read the depositions that somebody said RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

somewhere along the line --1 2 Q . I'm not asking you to adopt the other people's testimony unless you want to 3 and you think it's true. 4 I don't have enough knowledge to do 5 Α. 6 that, It would make common sense to me, but I don't know much about that. 7 8 Q, Does it follow and is it true 9 therefore, that you don't have an opinion as 10 to whether or not if dental needles break, 11 they would typically break at the hub, an 12 independent professional opinion? 13 It would be a guess. I would just, Α. 14 I would guess that that's the obvious spot 15 where they would break but I don't have any 16 data to show you that. That's just a 17 supposition on my part. 18 Q, Before -- strike that. 19 Are you at all familiar with the ADA ANSI Standard No, 54? 20 2 1 Α. Well, I've seen it now. I wasn't 22 familiar with it before I was, I became 23 involved with this case. 24 Ç, So the first time you saw that  $\overline{\text{RUNFOLA}} = \overline{\text{ASSOCIATES}} = \overline{(614)} = \overline{445} - \overline{8477}$ COMPUTERIZED TRANSCRIPTION

	24	23	22	21	20	19	18	17	16	1 5	14	1 3	12	11	10	9	œ	7	6	ហ	4	ω	N	₽
'RUNFOLA & ASSOCIATES (614) 445-8477	the textbook and I haven't read the technique	A. The precise technique is written in	textbook?	Q. Or is it just what's in your	we wrote it.	mean if you want me to read you the textbook,	through it if I had to. Of course, I know. I	A. I guess I could probably struggle	opinion about it?	Q. Do you know, I mean do you have an	A. Well	Spehar?	block injection on a patient like Karla	a pediatric dentist in making a mandibular	the proper technique that is to be followed by	Q. Would you describe for me what is	is, I'm sure it was.	A. I'm neutral. If somebody said it	that?	understanding also or are you just neutral on	in the ADA journal. Did you have that	Q. I understood that that was published	A. That's correct.	standard was in connection with this case?

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RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION	A. Well, 27.7 describes the inferior	page	technique is as described here beginning on	constraint. If you say the injection	are all working under a tight time	Q. Let me just ask you this because we	on page 322	read. The injection technique is figure 27.7	daughter that I am doing them to. Let me	giving those injections there and that's my	it starts on page 317 and I'm the one that's	dealt with well in this chapter. And that is,	children that don't, that I don't think we	emotional components of giving injections to	answer your question more directly. There are	knew where you were coming from, I could	A. I would have to read this. If I	in your textbook?	Q. Is the technique what is described	to know about the technique.	A. Why don't you ask me what you want	deposition. If the technique	Q. I am not trying to prolong this	recently.

4 3

aveolar block on page 322. 1 2 Q. And there's text underneath that 3 that also describes that. That's correct. I don't think we 4 Α. described the block in the body of the text. 5 6 I think it's only in that figure, I guess that's how we did it. 7 8 Q. I'll accept that, that's fine. 9 There is a little bit on page 321 Α. 10 that relates more to the position of the 11 foramen. I quess there is some stuff in the 12 body of the text. Yeah, that's going to give you more detail than I can tell you off the 13 14 top of my head. 15 MR. BITTEL: Doctor, I don't have 16 any further questions. MS. HENRY: Would you guys mind if 17 18 we took a ten-minute break before we started? (Short recess taken.) 19 20 CROSS-EXAMINATION 2 1 22 BY MR, JORDAN: Good morning. If I ask you any 23 Q. 24 questions you don't understand, please stop me RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

and ask me to clarify. 1 2 Α. I sure will. How did you become aware of what the 0. 3 standard of care is in the dentistry field for 4 5 treatment after a broken needle has occurred? б Α. I guess I would say that I, just reading the depositions is the first time that 7 I really have gotten much into it. I reviewed 8 9 some of the literature that I have got 10 available to me. 11 What literature did you review? Q. MS, HENRY: Before we go on here, 12 Pat, are you talking about what an oral 13 14 surgeon does? 15 MR. JORDAN: I'm just asking him 16 what he knows. 17 MS. HENRY: Wait a minute. Let me I think we forgot to tell 18 just tell you this: 19 you. Before you came in, he's not rendering 20 an opinion on the standard of care for oral 2 1 surgeons, for the care of Dr. Indersano, for 22 the care of the removal of dental needles by 23 an oral surgeon. Is there anything else, Tim, 24 that we missed?

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	24	23	22	21	20	19	18	17	16	1 5	14	13	12	1 1	10	Q	8	7	δ	ហ	4	ω	2	فسو	
RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION	Q. Have you talked to any colleagues	A. That's correct.	had a needle break off?	experience in dealing with a patient who has	Q. I take it you have no personal	A. No.	Q. Did you look at any case studies?	and such.	removing needles. I didn't go to the library	isn't much that talks about the techniques of	these pediatric dental textbooks, but there	A. I think I looked in a couple of	Q. What literature did you review?	MR. JORDAN:	beyond that.	THE WITNESS: I don't know much	piece of information that's nice to know.	MR.JORDAN: That's an additional	anything for you?	MS. HENRY: Does that clarify	removal of dental needles by an oral surgeon.	Indersano, or the standard of care for the	things. Malignent hypothermia, Dr.	MR. BITTEL: Those are the three	

who have had instances where needles have 1 broken off in one of their patients? 2 3 Α. I don't know of anybody that it ever has, it's never come up. 4 5 Q. What dental needles are used at the 6 Ohio State Dental School? 7 Α. I think that everybody -- I can tell you what we buy and I think they are used 8 throughout the schoo, 1 and those are monoject 9 10 needles. It's your understanding that 11 Ο. monojects are made by the company I represent, 12 Sherwood Medical? 13 14 Α. That's correct, right. Now do you buy all different sizes 15 Q. 16 of the monoject, the 23 through the 30? Do I? 17 Α. 18 Q. Yes. 19 Α. We buy -- no, no. We buy 27- and 20 30-gauge. 21 Both long and short? Q. We have 27-gauge short and we have 22 Α. 23 30-gauge ultrashort. Then I went to get a 24 25-gauge long needle and we didn't have any. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

you said we, you are referring ic section budget that I control is istry. ou know what the is the other ntal school the adult section? 's more than half, but yes. 's the other portion? 's the only people that deal re the only people that deal ou know what the rest of the purchases or uses?
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HENRY: Objection.
n't know. I know that I found
es when I went to one place, but
often do you use either a 27
edle in a week?
l f ?
self.
ral dozen times, I guess.
ou observe students or other
ng dental needles?

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RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION	arni	problem with it.	A. I have never had any personal	breakage, but have you had any other problems?	monoject needles? We've been talking about 	Q. Ever had any problems with the	A. Yes.	- State?	needles ever since you have been at Ohio	Q. And have you been using the monoject	clinics, sure.	A. Hundreds of times a week in our	Q. Could you give a ballpark estimate?	that sort of thing.	injections we give a week in our clinics and	would have to do is figure out how many	that gets used almost all the time. What we	injections. Twenty-seven-gauge is the one	primarily. Thirty-guage we use for limited	A. Twenty-seven is what we use	30-gauge dental needles being used?	would you say you've observed the 27- or	Q. How many times in an average week	A. Yes.	

labels? 1 Do you know what's on the package that the monoject needles come in? 2 I do now. I went and looked at 3 it. Α. 4 as a result of reading these depositions, but I didn't before I went and looked. 5 6 Q. I take it you learn, in dental school you learn how to use a dental needle; 7 is that fair to say? 8 9 Α. Sure. Did anything on the warning label 10 Ο. surprise you or teach you anything you didn't 11 know? 12 MS. HENRY: Objection. Go ahead. 13 14 Α. It said to not inject the needle to 15 the hub. 16 I asked sort of a compound question, Q. did it surprise you or did it tell you 17 anything --18 19 Α. I wasn't surprised. Was that something you had never 20 Q. heard before? 2 1 No, it was nothing that I had never 22 Α. heard before. 23 24 Q. I take it you had heard in law RUNFOLA & ASSOCIATES (614) 445 - 8477COMPUTERIZED TRANSCRIPTION

school --1 2 Dental school. MR. BITTEL: 3 Q , -- dental school that you are not to 4 inject the needle to the hub? 5 You know, I can tell you that I Α. suppose that I heard that some time, but I 6 certainly cannot tell you that it's a 7 principle that was engrained into me 8 9 clinically or in the didactic fashion. 10 Are you aware of any studies that Ο. 11 demonstrate that 25-gauge needles can be used 12as painlessly as 27- and 30-gauge needles? 13 There are a couple of studies that Α. 14 I'm aware of that state that even, I think it 15 includes, included 23- gauge needles as well, 16 that patients could not perceive the 17 difference. Do you have any reason to disbelieve 18 Q. those studies? 19 20 Α. Oh, sure. 21 What is the basis for your --Q. 22 Clinical judgment, clinical Α. 23 experience. Do you think the patient should have 24 Q. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

A. needle were ab Q. the con
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1 dictates and my personal preference is to use 27. 2 3 Q , I understand for other reasons that 4 you articulated during Mr. Bittel's questioning about the control of the needle. 5 6 Α. No, no, that's a different issue, that's the length of the needle. 7 8 Q , What other issues dictate your preference to the 27 as opposed to the 25? 9 10 Α. Frankly I've always used the 27. Ι Ι 11 quess I have no real reason to go to a 25. can't tell you that I give so many kids 12 injections with 25 and so many kids injections 13 14 with 27 and I can tell the difference. I just 15 have always used 27-gauge needles. I see no 16 reason to change it. So sort of past practice and the 17 Ο. fact that you feel that there's better ease of 18 19 control of the 27-gauge --No, the gauge has nothing to do with 20 Α. 21 it. Control was the length. That's a 22 separate issue. 23 Ο. Aside from the length issue, is it 24 just your past experience with the 27-gauge RUNFOLA & ASSOCIATES (614) 445-8477

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that dictates its use rather than the 25? 1 2 Α. Right. Q. Would you recommend the use of a 3 30-gauge needle for a mandibular block in a 4 5 child the size of Karla Spehar? 6 Of the appropriate length? Α. Yes. Q. 7 I wouldn't recommend it. I wouldn't 8 Α. say it's wrong. I think that some people use 9 10 30-gauge needles. I have no reason to argue 11 that. 12 The issue with gauge of the needle 13 relates a lot to ability to aspirate. And 14 there have been enough studies to show, and my 15 clinical experience is you can aspirate with 16 any of those. As I told Mr. Bittel, in my 17 opinion now, the choice of your needle has a 18 lot to do, has most to do with personal 19 preference. 20 I don't think as hard as you look, I 21 don't think you are going to find any science 22 that is going to dictate that one is more 2.3 appropriate than another. Nor do I think you 24 are going to find a universal opinion. Ι RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

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RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION	Q. Have any of them complained that the	know they are used.	sensation. I can't tell you who they are. I	there's, that the children have less	them. And their clinical impression is that	who they are, but I know that people use	30-gauge needles routinely. I can't tell you	A. I hear people talk about using	Q. Do you know any colleagues who do?	A. No.	for a mandibular block?	Q. Have you ever used a 30-gauge needle	frequently for infiltrations right there.	either for ligamentary injection or most	to bend it. When I use a 30-gauge short, it's	A. You don't have as much opportunity	short the needle	Q. I take it when the fulcrems are very	don't think about the bendability.	use it in a technique where it would bend. I	and the fulcrum isn't that long and I don't	30-gauge ultrashort. It's that much shorter	30-gauge long or short needle, I use a	A. No, I don't. Again, I don't use a

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30-gauge needle breaks during those mandibular 1 2 block injections? 3 I have already said that I've never Α. heard of anybody who has had anything to do 4 5 with any type of breakage. 6 Q. Would you agree that the primary difference between the gauges is the degree of 7 aspiration that you can obtain with the 8 different gauges? 9 The primary difference is the size. 10 Α. And what is the effect of that size 11 Q. difference in the gauges that you have 12 observed? 13 I think the lumen is smaller. 14 Α. тhе smaller the needle, I think that the lumen is 15 smaller. In terms of ability to aspirate, 16 that was one of the original concerns about 17 18 not using smaller gauged needles because there was concern that you couldn't aspirate. 19 And, but through clinical experience and then 20 through a number of other studies that have 21 22 been published it has been shown that you can aspirate through. I don't know that that's a 23 I would probably think it is not. 24 difference. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 Q. What does the phrase "hubbing the needle mean to you"? 2 I don't know, 1 would guess that it 3 Α. means pushing it to the hub. 4 5 **Q**. I just want to make sure we are 6 operating on the same page. Why don't you just tell me, taking 7 Α. it all the way so the hub hits the mucosa. 8 9 We call it the gum line. Is that Ο. 10 the same thing? No. 11 Α. What's the difference? 12 Q. Basically the gums are around the 13 Α. 14 teeth and the area where you are giving these injections aren't into the gums, it's into the 15 16 mucosa, soft tissue. I think people 17 understand when you say gums, I think that's 18 pretty good. 19 Would you agree that needle breakage ο. 20 is usually -- strike that. 21 You won't be able to give an opinion as to the usual cause of breakage of the 22 needle since you haven't experienced any; 23 is that fair? 24 RUNFOLA & ASSOCIATES (614) 445-8477

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You are right about that. 1 Α. 2 Ο. Have you ever treated any patients 3 who have malignent hypothermia? No, I have never treated anybody. 4 Α. Now wait a minute, in New Orleans we were 5 referred a pair of kids who had, whose dentist 6 7 thought they had malignent hypothermia and we 8 treated them pretty routinely. I cannot guarantee -- I have never treated anybody that 9 I know for sure had a definite diagnosis of 10 malignent hypothermia. You hear about it, but 11 12 I have never personally treated anybody that 13 there was laboratory evidence that they had, 14 confirmed, let's say. 15 Ο. And here there is no biopsy to confirm that there is malignent hypothermia. 16 17 Α. Right. 18 Q. But I take it you had an occasion in 19 New Orleans where you performed some dental 20 procedure that he or she may have had 2 1 malignent hypothermia? 22 Α. Yes. 23 Did you take any extra precautions Q. 24 with that patient, that you recall, did you do RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 Ο. What is this other technique? Ιs 2 that a different type of technique? 3 You block the same nerve, but you go Α. to a different spot, you go to a different 4 position. 5 6 Q. Why would you perform one technique 7 as opposed to the other? That's a good question. I think 8 Α. that if you had -- there are some patients 9 10 that are, particularly adults, that are particularly difficult to get mandibular 11 blocks on. And then you go to other 1213 techniques. But it's Just rarely done. The 14 technique that he did was the one that you use 15 over 99.9 percent of the time I would say. 16 Q. If you are trying to have a successful mandibular block and it's not 17 successful the first couple times using the 18 technique Dr. Orchen used, would you try this 19 20 other technique? 2 1 I don't know the technique. Α. I've 22 done it once or twice. I don't know the 23 technique well enough to do it. What I would 24 probably do is deposit the solution in a RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 different position, but I would use basically the same approach. 2 3 I've never had a child, I've never had difficulty with local anesthesia, 4 5 profundity of local anesthesia in a child. 6 There are a lot of anatomic and physiologic 7 reasons for that. Problems that I have had have been more with adults or older teenagers, 8 and things, it has to do with the density of 9 10 the bone and permeates the tissues and gets to 11 the nerve block, Children's bone is quite 12 porous really and usually you are able to get 13 the anesthesia. It's not infrequent that you give a second injection, but usually that will 14 15 do it. With children under five, you 16 Q . started to answer the question I'm about to 17 ask, and that is how many times, I mean does 18 it just take one injection to, normally to 19 20 successfully perform the mandibular block on a child under five? 2 1 22 Α. I would say in a good majority of 23 cases you get it with one injection. But I'm 24 sure that in our clinics every day we need to RUNFOLA & ASSOCIATES (614) 445-8477

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readminister a block. I think it would be, 1 2 it's a little bit different for a pediatric dentist versus a learning student. But even 3 for a pediatric dentist, probably a busy 4 5 pediatric dentist, every week that person is using more than one block. That's not unusual 6 7 at all. 8 Q. What about three, is that unusual, 9 would you say? When you say three, what factors 10 Α. then is the amount of anesthesia, the amount 11 of local anesthetic the child is going to be 12 13 administered and that's what the dentist would be concerned about. 14 I don't really know how much 15 Q. anesthesia you need, but if you assume the 16 amount of anesthesia that would be required 17 for a child. 18 19 Α. If you gave three Carpules on a, it's a milligram per kilogram issue, you are 20 talking about the toxicity of local 21 22 anesthetic. That's my concern. You, it's not like saline, you can't just keep shooting 23 24 until, let's start with the kid's ears and RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

move in and we'll get this kid's whole head. 1 2 MS. HENRY: I think there's a problem here. If you are talking about a 3 mandibular block, he considers using one 4 Carpule, regardless -- are you talking about 5 times you insert the needle as opposed to do б one mandibular block and you go back with a 7 8 second Carpule? THE WITNESS: I'm thinking you are 9 10 talking about using a whole Carpule every time 1 1 you go in. MR. JORDAN: 12 13 Ο. What about just the number of 14 injections. 15 MS. HENRY: On one Carpule? 16 Q. Right. 17 Α. You may give several with one 18 Carpule, sure. 19 Q . What would be the reasons that would 20 affect the number of times you would inject the needle? 21 22 Α, Well, probably the profundity of anesthesia. And typically when you give a 23 24 mandibular block, you don't get total (614) 445-8477 RUNFOLA & ASSOCIATES COMPUTERIZED TRANSCRIPTION

1 anesthesia of like the soft tissues in the outside surface. You have to give, come 2 3 outside and give a long buckle block, that many times will accompany and be a normal part 4 5 of a mandibular block. If you are using a rubber damn with 6 7 a clamp that's going to impinge upon the gum 8 tissue or if you are going to do crowns and possibly impinge upon that tissue, then you 9 10 would give that. So let's say you give a 11 mandibular block and then you give a long 12 buckle, then you set it down and have this 13 needle recapped, you may well then, if you 14 find your anesthetic procedure isn't profound 15 enough, you may redo that again. 16 What about the number of injections Ο. 17 on the inside mucosa, are there occasions when 18 you put it in and it doesn't feel like it's in the right location and you pull it out and put 19 20 it in again? 2 1 Α. On occasion, yes. 22 And what factors dictate to you when Q, you put a needle in why you would want to pull 23 it out without injecting and putting it back 24 RUNFOLA & ASSOCIATES (614) 445-8477

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in again, looking for another location? 1 2 Well, probably the anatomy of the Α. 3 area. There's a large muscle that's right there and you don't want to inject into the 4 5 muscle. You want to inject into a space 6 adjacent to the muscle. Depending on the anatomy and angulation of the ramus of the 7 mandible, the size of the ramus of the 8 mandible, those, there are anatomical 9 10 considersations. 11 And then there are times when a 12 child will have infection back there and it's difficult to visualize it. And then times 13 14 when a child isn't behaving where it's a 15 moving target and you just didn't get it in the right spot. So the idea is to put the 16 17 needle where it's supposed to be. Eliminate the moving target for this 18 Q., question. Would you say that resistance in 19 20 the mucosa is the reason that you would pull out the needle and inject it back again 2 1 22 looking for a better area, a softer tissue to inject the or deposit the anesthesia? 23 24 Α. That might be one. That if you went RUNFOLA & ASSOCIATES (614) 445 - 8477 COMPUTERIZED TRANSCRIPTION

in and felt that you were in the muscle, then 1 you might take it back out and reposition it. And how can you tell if you've hit Q. the muscle? Sometimes you can't. Sometimes you Α. can't. Usually if the child is cooperative, it's just not that difficult to see. The landmarks are pretty clear. And particularly if you are experienced. The technique is to put your fingers on the mandible and look for, these are technical things we do. We pull the tissues taut to get a good look. If you pull the tissues taut, you can see this little triangular space, called the mandibular triangle, there's several names, and we know our anatomy that way. And you get a feeling for the sort of resistance that is routine when you give an injection. It's clinical experience I would say. I would think the dental students would far more frequently inject to muscles, the less experience, the less they are going to know what it's going to feel like.

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Do you notice different registance 24 Ω. RUNFOLA & ASSOCIATES (614) 445 - 8477 COMPUTERIZED TRANSCRIPTION

1 levels in different children when performing those? 2 3 Α. Even when I'm doing it correctly, sure. 4 Q. And some tissues are tougher than 5 others? 6 I would say some tissues, sure, if 7 Α. you hit a ligament or if you hit bone, it's 8 9 going to feel differently. Your technique normally is to try to just retract a little 10 bit and slide by it. 11 12 Q. Ever taught that you shouldn't bend 13 a needle before inserting it? Yes, I've heard that. 14 Α. Have you ever bent a needle before 15 Q. you inserted it? 16 17 I probably have. I can't tell you Α. 18 exactly when. Probably -- certainly rarely, I can't remember the last time I've done it. I 19 can't tell you I've never bent a needle. I 20 2 1 would be lying if I did. 22 Would you agree that most dentists Q , 23 that you are aware of have probably bent a 24 needle prior to its insertion? RUNFOLA & ASSOCIATES (614) 445-8477

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	A. I don't know.
~~~~	Q. Would you agree that a dentist
 ო	should not attempt to change the direction of
4	a needle during a mandibular block while the
 س	needle is embedded in tissue?
	A. No. I don't agree with that. I
r-	think that generally speaking, when you give
	the injection you go in and you put it in one
<u>Б</u>	spot. But I can also tell you that in the
 1 0	daily practice of giving mandibular injections
 	to children, there are times when we retract a
~~~	little bit and position it somewhere else.
 m	Particularly in kids that the anatomy is not
4	real distinct.
 س	It's an approach. We have plenty of
	anesthetic solution in the Carpule. If we put
~	a little bit in this position and retract and
	put a little bit somewhere else, then we stand
 6	a better chance of having profound anesthesia
50	the first time. So to say that it's
5	contraindicated and it's beyond the standard
5 2	of practice to deviate and needle when it is
5 73	in, I would have a hard time agreeing with
24	that.

P

1 Q. Would you agree that's what is taught in dental school? 2 3 Α. I have no idea. Do you remember what was taught in 4 | Q. 5 dental school? I really don't remember what was 6 Α. taught in dental school. 7 8 Did you look at any x-rays in this Q. 9 case? I don't think so. I don't think I 10 Α. 11 ever saw any x-rays. 12 Q. Do you twist the syringe at any 13 point during a mandibular block? Twist the syringe. How do you mean 14 Α. 15 twist, in what dimension? 16 I guess the normal meaning, side to Q. 17 side is twist to me. Twist would mean rotation. 18 Α. Right. 19 Ο. 20 Let me think. I might a little Α. bit. Probably would be hard not to. When you 2 1 22 | say twist it, are you talking about a needle 23 that's like this and it's rotating just like 24 this? RUNFOLA & ASSOCIATES (614) 445-8477

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Q. I'm taking my pen and just going 1 like this with it, side to side. 2 Yeah, there's probably a little Α. 3 rotational when you give an injection, yeah, 4 а little bit, not much, but I'm sure there is 5 6 some. Q, Do you have any idea about how much 7 8 pounds of pressure or ounces of pressure you apply in a syringe around a needle during a 9 mandibular block? 10 The hands pushing it in? 11 Α. 12 Q. Yes. There's no other force that's 13 putting the syringe in, right? 14 I was looking at the pressure that Α. 15 you exert by plunging it. The solution can 16 come out in different volume, depending on how 17 much pressure. No, I don't know. I quess I 18 can tell you that one of the hallmarks in 19 pediatric dentistry is giving painless 20 injections. And one of the basic tendencies we teach is don't hurt the kid. 2 1 22 So I can tell you from direct 23 experience that you are going to find a 24 difference in the technique of a pediatric RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

dentist from maybe someone who only treats 1 2 adults or an oral surgeon or something like that. You can see a definite difference in 3 the technique. 4 Q. 5 Are there any handbooks or textbooks 6 that talk to you about how much pressure to apply to the syringe or needle during a 7 mandibular block or any injection? 8 No, it's more the art and the 9 Α. science there. I think that you will find in 10 textbooks, and I'm sure I have them, one of 11 12 our principals, we give much slower, when I 13 say we, pediatric dentists give much slower injections or are slower to insert the 14 15 needle. You will find that it will take a 16 pediatric dentist significantly longer to 17 deposit a given amount of solution of 18 anesthetic than someone who is maybe only 19 treating adults. And we are very gentle with So I would think that it would 20 the tissues. 2 1 be easy to conclude that the pediatric dentist is more gentle in the technique, less 22 23 pressure. 24 We had talked earlier or you had Q. RUNFOLA & ASSOCIATES (614) 445-8477

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answered some questions about the ANSI ADA, 1 specifically No. 54. Had you ever heard that 2 term "ANSI ADA"? 3 I've heard, sure, I know that 4 Α. they've got standards. 5 6 Q. What is the ANSI ADA? I don't know what ANSI stands for, I 7 Α. don't know what it's an acronym for. The ADA 8 is frequently involved in, through counsels of 9 consultants in evaluating products and 10 materials and things like this, published 11 standards that I suppose dictate or regulate 12 13 maybe materials that are used. I don't know a 14 lot about it. It's nothing that we, it's nothing that we refer to with any frequency. 15 When you say we, you mean dentists 16 ο. 17 generally? Probably. 18 Α. Well, what standards do you as a 19 ο. 20 dentist follow? Toward what now? 21 Α. Well, say the selection of a needle. 22 Ο. Well, I guess in selection of the 23 Α. 24 needle, it's an easy, it's the one that we RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 have always gotten. A better example might be of something new that's coming out, a 2 3 mouthwash, Plax, P-l-a-x, there's a good example of material that was marketed directly 4 to the public without any scientific 5 information. And normally in those 6 sorts of things you look to, you look to 7 literature, to data to support something that 8 is new. In terms of needles, to be perfectly 9 10 honest, I mean it never occurred to me before 11 all this came up. Again, I'm just using what 12 I was taught and have used and taught all 13 these years. 14 Q. Would you agree that mandibular blocks are deep penetrations? 15 16 They are probably the routinely, the Α. most deepest penetration that we routinely 17 18 do. Particularly in dentistry for children. Most of the other injections we give are just 19 20 kind of infiltration injections, there are exceptions, but routinely those are the 2 1 22 deepest ones. 23 Q. How deep do you normally need to go to have a successful mandibular block? 24 Ιn RUNFOLA & ASSOCIATES (614) 445-8477

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other words, to deposit the anesthesia, how much in millimeters must you go inside the mucosa? A. Well, you know, it's an interesting question. It varies. Probably 15 millimeters, maybe 10 to 15 millimeters, something along those lines of what is usual. But frequently, you know, as I said earlier, frequently depending on the anatomy of the situation, you go deeper. It's just not unusual to do that. Q. What are supraperiosteal injections? A. Well, it's, periosteum is tissue that's attached to the bone, so if you are giving a subperiosteal injection, that means you are going down and really engaging bone. Supraperiosteal deep, basically you are depositing solution before you engage the tissue it is attached to. Nould that be a mandibular block? A. Would that be a mandibular block? A. Would that be a mandibular block? A. Would you have done anything C. Would you have done anything	<del></del>	2	e	4	ß	9	7	œ	ი	0	-	3	ო	4	ഗ	9	5	œ	6	0	-	2	ო	4
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different than Dr. Orchen after the needle 1 broke off? 2 3 Α. You know, I read through his 4 deposition and obviously I wasn't there, I didn't see the behavior of the child, it's 5 very difficult, hindsight is 20/20, but I 6 think I probably would have done exactly the 7 same thing that Dr. Orchen did. 8 Q , Including not telling the mother? 9 You see that I can't know because as 10 Α. I told Mr. Bittel, I wasn't there to see what 11 the child's behavior was like, but I could 12 13 envision a scenario where that would occur. 14 If the child was perfectly calm, and Q. 15 perhaps even unaware that the needle had broken, given that hypothetical situation, 16 17 what would you do? MS. HENRY: Objection. 18 Given the same scenario prior to 19 Q. 20 that point. It's really hypothetical because 2 1 Α. 22 I've really never had a needle break off. I understand this whole thing is 23 Ο. 24 hypothetical for you. RUNFOLA & ASSOCIATES (614) 445-8477

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4 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	lat factor into it too. If I felt that it is I can't tell you for sure. I may have
	s I can't tell you for sure. I may hav
	one out and talked to the parent, I may not
	ive, depending on the kid at the time.
	If a decayed tooth is properly
	reated in a child and a steel crown is placed
8 0 0	n it such as in this case, how long will that
9 to	oth remain healthy?
0 9	Boy, is that a loaded question.
	MS. HENRY: Objection. Go ahead.
2 A.	Yeah, I mean that's a it depends
чо  Э	1 how much decay was there, what the vitality
4	the tissue in the root canal is, what your
ຊ ຊີ ເ	efinition of health is, all those things. I
е де е	ean I can't give you a simple answer to that
nb   1	lestion.
0 8	Say the tooth in this case fell out
6 to	HOLLOW OL hap to be removed, it w
ថ្ម e 0	אם אמנואני s opinion that the tooth sould שפ
21 -	аномер tomorrow, would that surprase you?
22 A.	How old is the kid?
5 3 0	I'm talking about thès particular
4 C C D	ısr Karla Spehar

p

1 Α. It was a primary tooth that under 2 normal circumstances would exfoliate probably around the age of anywhere from 10 to 11 years 3 old, maybe. In the absence of any pathology, 4 5 you know, and I don't know really have much information about that, I believe that he did 6 7 a pulpotomy technique, which means he took tissue out of the chamber but not out of the 8 roots. And the technique that he used is 9 successful in most cases, but certainly it 10 does fail. And I've certainly had it fail 11 12 with me. There's no guarantee. And it could well be a function of the, if it had failed, 13 you know, if you do a technique like that and 14 15 it fails, it's usually indicative of a 16 advanced disease process. 17 But very honestly it is just 18 sometimes impossible to detect clinically and 19 that's why they fail. 20 The child was three at the time and she is almost seven now? 2 1 22 MR. BITTEL: Yes, sir. 23 Q. After you are done using a needle, one of these monoject needles, what do you do 24 RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

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get it as far gone as you can. We don't use 1 2 it again normally. Q, I'm not talking about breaking it in 3 1 front of the child. 4 1 5 1 We have no reason to do anything Α. 6 with a needle when we are finished with it other than to dispose of it, according to 7 8 whatever the protocol is. Q, 9 That's what I was asking about, are you aware of any protocol in which the needle 10 11 is broken from the hub or shaft? 12 There are needle cutters that people Α. 13 used to use, and I really don't even think they are appropriate anymore. I think that is 14 15 kind of out of the window now. Q, How many degrees do you bend the 16 17 needle when you are performing a mandibular 18 block in a child? 19 Α. I don't bend it. 20 Q . Well, during the insertion, does the 21 needle bend at all or move off center, off line from the shaft? 22 23 I'm sure you get a little flex. Α. Ιt 24 doesn't go in directly, but RUNFOLA & ASSOCIATES (614) 445-8477

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1 Q. That's what I'm trying to get at, 2 how much, if you had to put a little degree to 3 that flex. Gosh, 10 degrees maybe, maybe 15. 4 Α. You are talking about a child that is totally 5 cooperative, not somebody who moves in the 6 7 middle? 8 Q. Right. Α. Not an awful lot. 9 10 What does asymptomatic mean? Ο. Well, without symptoms, means that 11 Α. normally you would say there are no 12 13 complaints. Typically the child isn't complaining, people differentiate between 14 symptoms and signs. And symptoms might be 15 more subjective. It's what the child would 16 17 report, if there are no symptoms, the child says it doesn't hurt, it doesn't feel funny, 18 it doesn't feel different. 19 20 Ο. Is it your understanding that the decayed tooth in this case was asymptomatic? 21 2 2 I think that's true. I would have Α. to go back and report that. I don't remember 23 that the child came in in pain. 24 RUNFOLA & ASSOCIATES (614) 445-8477

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~~~~	no right or wrong in that.
 ო	Q. Some pressure needs to be placed on
4	top of the crown?
 ص	A. To seat it.
9	Q. To seat it.
7	A. Yes.
 ω	Q. And sometimes that is simply
<u></u> -	compression by the patient themselves when
 0	they bite. On other occasions that's pressure
	applied by the dentist through some instrument
	or just their hand; is that correct?
 ო	A. Just their finger, you can pop them
4	on pretty easily.
 ഗ	Q. What's the normal procedure to
	achieve occlusion?
	A. The normal procedure is to prepare
 	the tooth, select a crown size and to seat it
 б	with your thumb basically, a pediatric dentist
 0	you know, one who has done a lot of them,
	that's basically what you do.
	Q. Do you use a drill at all during the
 ო	restoration of a tooth such as the one Dr.
4	Orchen was doing?

1 Sure, sure you do. Α. 2 Q . Do you children that you have used a 3 drill with normally have some tension when 4 they hear that drill, Just physical tension in their muscles? 5 6 MS. HENRY: Objection. No, I wouldn't say normally. 7 Α. 8 Ο. Do you ever notice that 9 children's -- do you notice any difference in a child's gum tissues or facial muscles when 10 you begin drilling? 11 12 No. Α. 13 MS. HENRY: Don't volunteer 14 anything. 15 Q. Would you agree that a deep incision 16 is outside the area of expertise for a 17 dentist? 18 MS. HENRY: Do you want to define deep incision for him. 19 20 Q. If he needs to. You would use the 21 term "deep incision." 22 No, of course, 1 would not agree Α. 23 with that, no. So a deep incision can be performed 24 Q. RUNFOLA & ASSOCIATES (614) 445-8477

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	by a dentist?
~~~~	A. Sure.
- <u></u> -	Q. How deep of an incision can a
4	dentist perform?
 س	A. That's an impossible question for me
9	to answer. My gracious. I mean, you know, we
~	don't measure it that way. We don't have
	curriculum standards that say you go to 15 and
 б	stop, you can't go to 16. It depends, common
0	sense here dictates. It depends on your
	training. And some general dentists have
~	gotten an extensive amount of training in oral
 ო	surgery and do a tremendous amount of oral
4	surgery, including, it's not so much, this
 ص	depth of incision thing has very little to do
۔ ۔۔۔ ۔ ص	with degrees or how complicated a surgical
	procedure is. But some general dentists with
· ω	no advanced training have laid flaps and
 б	removed bone and extracted impacted teeth and
0	repositioned teeth and all those sorts of
	things.
	So surgery is a component of a
 ო	general dentist's education. We mandate that
4	our dental students do surgeries. It's an

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	accreditation standard that they do surgeries. Q. Does a dentist normally perform surgery during his normal practice? A. Sure. Q. What type of surgeries? A. Well, extraction of teeth, eth, extraction of impacted teeth, depending on who the person is and their interests. Q. I guess we should limit it to pediatric dentists because that's what we are talking about. A. Okay. Pediatric dentists would extract impacted teeth. Remove odontomas, a supernumerary tooth, extra tooth that's in the midline. And its baby teeth are there but the permanent teeth can't errupt because it's in the permanent teeth can't errupt because it's in the way. So the particular procedure is lay back a flap of soft tissue and remove some bone and then remove this thing.
	outinely do all the intraoral lacerations
2 4	that come into Children's Hospital, tongues, <u>RUNFOLA &amp; ASSOCIATES (614) 445-8477</u> COMPUTERIZED TRANSCRIPTION

fragments of tooth that are in lips and things 1 like that, residents routinely do. Removal of 2 benign lesions, things like that. 3 Q. 4 Are there any muscles in the mucosa in the area that the mandibular block was 5 performed in this case? 6 Sure, yeah. 7 Α. 8 Q. Are you familiar with the muscle structure in that area? 9 10 Α. Yes. And would any oral, excuse me, any 11 Ο. pediatric dentists be familiar with the 12 muscles that are in that area? 13 14 Α. Yes. Would you feel comfortable 15 Q. 16 performing any surgery that would affect those 17 muscles that are inside the mucosa area? 18 Α. A limited amount, sure. 19 Ο. What does an oral surgeon do that you wouldn't do then? 20 2 1 Many things. I mean --Α. 22 Q. In terms of surgeries in the mouth. 23 Far more complex, complicated Α. Ι 24 surgeries, that's their area of expertise. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

think just to say that, just the complexity of 1 the case they were given is far more than a 2 3 pediatric dentist would. 4 Q. Do you agree children's behavior is 5 more erratic than adults in your field? 6 It depends on the age of the child Α. 7 and their development, you know. 8 Q. How about a three-and-a-half-yearold child? 9 Good question. That's kind of the 10 Α. 11 threshold. That's what we teach the students, the 36- to 42-month-old, 48-month-old is 12 really at its threshold at a time from where 13 14 they transition to a precooperative to 15 potentially cooperative and it can vary 16 tremendously from the same child and with the same child from visit to visit. 17 18 Q. What is formo-cresol pulpotomy? It's basically removing tissue, the 19 Α. nerve and the blood vessels from the crown of 20 21 the tooth, that portion of the tooth that you 22 can see. And then --23 How do you do that? Q. You open the tooth with a bur, 24 Α. RUNFOLA & ASSOCIATES (614) 445-8477

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m

1 Q, On the tooth that you are restoring? 2 Do you really want to know? Α. 3 Q, I do. 4 Α. I can show you a picture. It may or 5 may not be the tooth that you are restoring. I don't mean to be short with you. I would be 6 happy to show you this. 7 8 Q, Do you know in this case? I'm more 9 particularly interested in this case, if you 10 know. 11 Yeah, I could guess what tooth he's Α. got it on because it's, the clamp has to go on 12 the tooth that's behind or distal to the tooth 13 that you are restoring, or the same tooth. 14 So 15 I assume that the clamp was on the same tooth 16 that he was restoring. That was the lower 17 right second molar, if I'm correct. 18 Q, Does the clamp, regardless of the tooth it's on, the teeth or tooth behind, does 19 20 it go all the way down to the mucosa? 21 Α. There it's gum. Q. Does it touch the gum? 22 23 It all depends, sometimes they Α. 24 don't, depends on the morphology of the tooth. RUNFOLA & ASSOCIATES (614) 445-8477

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1 Q. And is that normal for the dentist to put the clamp and rubber clamp on or is 2 that the dental assistant's job? 3 4 Could be either way. Α. 5 MS, HENRY: Off the record. (Discussion off the record.) 6 BY MR. JORDAN: 7 Was the tooth that was treated here а 0. the last tooth in her mouth? 9 10 Probably, yes. Α. And that's why it is your opinion 11 Q. that that was the tooth that he clamped? 12 That's right. 13 Α. And just sort of a last question 14 Q. 15 here, do you have a ruler or anything here that would indicate how much two millimeters 16 17 is? Sure. This is a little gauge here. 18 Α. These are centimeters and these are 19 20 millimeters, ten millimeters in a centimeter. 2 1 So two millimeters comes to just like between the C and the M from here. 22 It's about the, 23 from this line to about the other side of 24 the C.

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1 Q. Would you be able to bring that with 2 you Thursday? I'm not going anywhere Thursday, 3 Α. 4 guys. We are coming here. 5 Ο. 6 MR, JORDAN: That's all. 7 1 8 FURTHER CROSS-EXAMINATION BY MR. BITTEL: 9 10 Q. Doctor, I think you indicated that in your injection technique for a mandibular 11 block, the needle might bend about 10 or 15 12 13 degrees and I want to -- is that what you said to Mr. Jordan? 14 I'm quessing. I've never thought 15 Α. about it, I've never paid much attention to 16 it. Certainly you don't bend it a lot when 17 you do it. You are talking about the needle 18 19 itself bending, you are not talking about the 20 angulation I'm entering the tissue, you are talking about once you go in the needle bends. 2 1 2.2 Q., I'm talking about the bend of the 23 needle relative to the syringe. 24 Yes. Α.

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Ð С Φ 0 **F** μ -1 ൻ д н 4 44 Φ -----S g ΕH Φ μ Φ Ψ 4 д σ ർ 0 **~**• d đ × R σ • ⊳ υ д Ъ Ø Ļ 4 0 Ц 0 0 Ø 0 Ð Я υ Я σ д 0 4 υ 3 1 -1 ർ ~ -1  $\succ$ σ ч Я Φ þ 0 -1 Ц Я Ŋ σ 0 μ -----1 . Я Ц 44 Þ υ 0 Ч μ 14 × Ø ъ 44 R ർ đ Φ  $\succ$ Ø μ, Φ σ Ø Ч Я Д σ J 100 -1 R ---đ ល д ⊳ -1 д Я d 11 Ч ч ወ Ø -H Q Ч μ Ħ -1 Ř Я -Ħ μ ы д ч -----44 μ d ß Ø D. Ŋ Ο -1 0 പ്ര ർ σ Ъ Ø Ø Ð Ø Ц 0 ----0 S 14 Z ർ ٠ n Ð ወ X д ы 14 O ъ ~ υ Ψ Ð Я Ø 1 д Я Ъ Ø Ъ **C** 0  $\sim$ Q -1 υ F Ъ 0 д  $\mathbf{L}$ Φ Φ I H ~ н Ð Ч Ψ 0 0  $\sim$ 44 ወ ወ Ъ ď 3 Ø Ъ ർ ------1 ч μ д 4 ർ д  $\succ$ д ε X Þ -0. 44 Ψ Ð μ 0 σ P υ 14 P д d 4 Ц ർ Ø S Ð ъ Ц Ø д Ð ß P -1 R |<del>-</del> | -| μ **H** д ർ Я Φ R 4 10 2 Я g Ч ----------0 Ъ υ σ ------Ð 3 44 Ħ Ø ß ס שי F -Н ർ Φ **F** ർ ⊳ 14 ß -1 1-0 Ø 0 Ъ 0 ർ 0 Φ Ъ Ø Ч þ Φ μ ർ -------υ ß Ø 1 0 З μ Ч ល Я  $\succ$ p4 μ Ø υ д g 0 Ħ × Ъ σ 0 Ð 0 IN Z 0 ъ ~ ർ Ø Φ Φ **H** Д **□**⊡ ∧ d, ---- $\succ$ ወ υ Ч ወ μ Ø F д Ч ወ  $\mathbf{\mu}$ σ Ψ 0 ⊳ д σ 0 Ø д Ц Ø IFI CA н g Ø 0 Ø З Ļ ർ ------⊳ Q Ц Ψ Ð Ъ ർ Ч ы ---d Ъ υ Þ ---д ы ъ 0 H ത Я Ъ Я ർ Я Đ ש 0 0 д σ  $\succ$ Ψ ወ ወ Ъ μ Φ ወ IJ 10 0 ര ർ ወ E Ц þ g  $\geq$ ы ч 0 Ð Φ ы 0 10 日 σ  $\rho_4$ Ծ ⊳ 1 Ъ đ Ъ Þ 4 41 0 Ц Þ Ц Ω щ Φ Я Þ ≥ Þ Ы N N ----ർ Ψ n 0 0 Ч ч 0 Ο д ൧ IN H . 0 ----Ч ർ 0 Ħ Þ Я Я н н З Ψ ⋗ Д, Я Ч Ч. -1 R N A ч ----Ø 0 0 ч S υ ъ Ð Ъ ወ Ъ 0 | 臼 -1  $\succ$ ٠ ~ . ຒ ~ ល 0 ч ч μ Hн P Ø Ø -H ש Þ Ц Ц ⋧ Ч Ч d  $\succ$ ß I & EI ч д S ß ß 0 Φ 3 Ħ 0 3 σ -1 R ർ ർ ർ -1 -1 d -1 Ħ  $\mathbf{q}$ 0 0 ወ Ħ Ħ ц q A A Ø -H ~ ~ Ø ß ~ 3 Ļ ർ ~ đ д ъ Ъ ወ Д  $\succ$ μ  $\succ$ Φ ወ | H Z 0 Φ Ψ d р 10 0 Φ Φ g Ø g н Ъ Ð 4 đ ы J Φ > Q Ъ μ IF4 U ₽ S ₽ Ц д А 3 Ø Ω μ, ъ Ъ Я μ н -1 ~ ---------÷ д  $\geq$ Ļ Ø Ψ 12 ----ש ൻ ъ -Ø - 11 Þ Ħ Φ Я Ъ ц, Ø R ч Ø ъ P G ----1 ٠ μ Я R 4 д Ц 12 J ർ 0 ർ д Ъ Ъ σ Я . ወ ß Ъ Q P υ д ർ υ P Ч Ч g ወ Ø þ ወ Þ ы Ļ -----Ø σ Ð Φ -1 Q 1 **---**Φ Ц 0 Ч Ħ P ч ¥, Ħ Φ ർ ~ **H** -1 . Ч ർ 0 Ъ д д 5 3 ወ ¥ ч  $\succ$ Ъ ർ ---υ σ υ ወ E μ υ Ð Ø Я Ц Φ 0 R ⊳ 44 0 44 д ወ 4 0 0 Ø Ŋ д Ø Ч . 7 . -1 -1 1 -------α R O' μ 4 υ Q. 0 Ц ß А д μ 2 -1 μ r H σ μ Μ ർ ъ --2 S Q 5 œ δ 0 ഗ ω σ 0 e 4 e 4 -N 3 4 9 5 ----2  $\sim$ 2 2 N 2 -1 ---+ -----1 \*\*\*\* -

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a couple of different spots, so that's why I 1 say that there is, frequently we move it 2 around. So there may be some needle bendage 3 doing that, but it's not, I mean it's not a 4 5 lot. 6 Ο. This is, I understand that in making 7 one of the injections, one of these mandibular block injections, you and any dentist working 8 9 in a clinical atmosphere, but I want to determine, if my understanding about proper 10 mandibular block injection technique is 11 correct, and when you testified for Mr. Jordan 12 13 a few minutes ago, it was my understanding 14 that you indicated the needle might flex 10 or 15 15 degrees during the injection. Is that 16 true? That's what I said and I'm 17 Α. 18 quessing. I'm sure there is some needle 19 flexion. It's just not extensive. You asked 20 me a question that I have difficulty 2 1 answering. I have never measured it in 22 degrees, so it's hard for me to tell you that. 23 Q. I'm not trying to conduct a geometry lesson, but certainly there is a, you can 24 RUNFOLA & ASSOCIATES (614) 445-8477

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ascertain-the-difference between a 10- or 1 2 15-degree flex and a 45-degree bend? Α. Yeah, I can do that. 3 Q, 4 Okav. And I'm not trying to be funny in anyway, joking about this. 5 I understand. 6 Α. Ø, Your technique and proper mandibular 7 block technique does not call for the needle 8 to be bent or flexed in the magnitude of 45 9 degrees during the injection, does it? 10 I have to repeat it, I cannot answer 11 Α. I'm telling you the question in degrees. 12 there's some flexion, and that is a routine 13 part of giving a needle or giving an 14 And it would be so much injection, excuse me. 15 16 easier if I could sit here and do this and I I've never measured could get a handle on it. 17 There is definitely it in terms of this. 18 Probably 19 going to be some needle flexion. depends a lot on the size of the people. 20 And I There are a lot of clinical issues. 21 22 cannot quantify how many degrees it's going to I'm sure there's going to be some bend. 23 bend. Well, let me ask it this way: Dо 24 Ο. RUNFOLA\_&\_ASSOCIATES\_(614) 445-8477 PUNEOMPUTERIZED TRANSCRIPTION

you, in making an injection, mandibular block 1 2 injection, contact the bone? Yeah, frequently. 3 Α. 4 Q. Is that by design or inadvertence? Oh, some people have taught that the Α. 5 appropriate technique is to go to the bone and 6 then to back off and deposit the solution. 7 And I would never say that that's 8 9 inappropriate. My experience is that when you 10 do that, when you touch the bone, you are 11 touching periosteum and that can be a more 12 painful thing. So I will frequently stay 13 somewhat short of that. 14 But it's neither, I mean I can't 15 tell you that it's a standard of care not to 16 or that it is a standard of care to. There is 17 certainly nothing wrong with doing it. 18 Q. Well, do you know of any case that 19 it is acceptable -- strike that. 20 Is it an acceptable mandibular block 2 1 technique in a child of Karla's age to inject 22 the needle to hit the bone so that only about five millimeters of the needle is through the 23 24 mucosa and then to rotate the syringe and the RUNFOLA &  $\overline{ASSOCIATES}$  (614) 445-8477 COMPUTERIZED TRANSCRIPTION

1 needle to bring the syringe and the needle 2 parallel to the mandible? 3 Α. Yes. That's acceptable? 4 Ο. Α. 5 Yes. MR, BITTEL: I don't have any other 6 7 questions. 8 FURTHER CROSS-EXAMINATION 9 10 BY MR, JORDAN: 11 Doctor, I know it's difficult to Q. figure out degrees and you don't have a 12 13 compass here, I've just drawn a very crude syringe. Could you add a needle to that and 14 show how much the needle would move? 15 No, I really couldn't. I'm telling 16 Α. 17 you I can't do that. I can't give you an 18 idea. It's not something that I routinely 19 think about. And I would have to -- you have to understand my bias as an academician is 20 not to make offhand comments to things like 2 1 22 this, but rather to measure them and do them 23 in a repeated fashion. Then you would have 24 facts, but then it would only be conjecture on RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION

	my Čart.
	Q. who goo look at the put standards
 ო	where they talk about testang tha restage to
	breakage?
 س	0N 4
 9	Q. Did you see how much the ADA
	recommended testing needles, what degrees
 ∞	they
 5	A. No, didn't read any of that, no.
 0	Q. If needles were tested to see if
	they could withstand 20 cycles of bending at
	25 degrees and the needles passed that type of
 ო	test, would that strike you as an adequate
	test of
 ഗ	A. I don't have any way of commenting
 9	on that.
	MS. HENRY: Objection.
	A. I don't know any of that stuff.
 თ	MR. JORDAN: Nothing else.
 0	MS. HENRY; Mhank you
 -	MS. HENRY: You hawe a right to rea <b>d</b>
	this transcript, it's Detwern now and Thursday
 ო	they are going to get it wone or not done, but
	you have the right to ream it to make sure

that it is true and accurate before it could be used in court and to examine you. THE WITNESS: Yes, I would like that. Thereupon, the deposition was concluded at 11:10 o'clock p.m. RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION



1 CERTIFICATE 2 STATE OF OHIO 3 COUNTY OF FRANKLIN : SS. I, Kathryn E. Smith, a Registered 4 5 Professional Reporter and Notary Public in and for the State of Ohio duly commissioned and 6 7 qualified, do hereby certify that DENNIS McTIGUE, DDS was by me first duly sworn to 8 testify to the truth, the whole truth, and 9 10 nothing but the truth in the cause aforesaid; 11 that the testimony then given by him was by me 12 reduced to stenotypy in the presence of said 13 witness, afterwards transcribed by means of 14 computer; that the foregoing is a true and correct transcript of the testimony so given 15 16 by him as aforesaid; and that this deposition 17 was taken at the time and place in the foregoing caption specified, and was completed 18 without adjournment. 19 20 I do further certify that I am not a 21 relative, counsel or attorney of either party 22 herein, or otherwise interested in the outcome of this action. 23 24 RUNFOLA & ASSOCIATES (614) 445-8477

COMPUTERIZED TRANSCRIPTION

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office at K Columbus, Ohio, on this \_ day of KATHRYN E. SMITH, Notary Public -State of Ohio. My commission expires January 14, 1993. a RUNFOLA & ASSOCIATES (614) 445-8477 COMPUTERIZED TRANSCRIPTION