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1	STATE OF OHIO :
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3	COUNTY OF CUYAHOGA :
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5	IN THE COURT OF COMMON PLEAS
6	Allen anne anne
7	
8	DAYLE YAFANERO, Administratrix of the
9	Estate of ANTHONY YAFANERO, Deceased,
10	Plaintiff,
11	-vs- Case No. 180339
12	Judge O'Donnell
13	
14	STANLEY T. MECKLER, D.D.S., PHILIP J. LANDSMAN, M.D.,
15	SCOTT L. ALPERIN, D.D.S., RICHARD SIMMS, M.D.,
16	Defendants.
17	/
18	The deposition of JOHN H. BURROWS, M. D., a
19	witness in the above-entitled cause, taken before
20	Debra M. Chrostowski, CSR-2035, RPR, Certified
21	Shorthand Reporter and Notary Public in and for Macomb
22	County, Michigan, at 23501 Jefferson, St. Clair
23	Shores, Michigan, on the 21st day of March, 1991,
24	commencing at 4:00 o'clock P.M

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JOHN H. BURROWS, M.D., MARCH 21, 1991

1 St. Clair Shores, Michigan 2 March 21, 1991 З About 4:00 P.M. JOHN H. BURROWS, M.D., 4 5having first been duly sworn, was examined and testified on his oath as follows: 6 77 EXAMINATION BY MR. KAMPINSKI: 8 Ő. Okay. Would you state your full name, 9 please? 10 John Howard Burrows. Α. Doctor, I am going to ask you a number of 11 Q . questions. If you don't understand me, tell me and 12 13 I'll be happy to raze any question that you don't 14 understand. When you respond to my questions, please do so verbally. She is going to be taking down 15 16 everything we say. She can't take down a nod of your 17 head. Okay? 18 Okav. Α. 19 You have been deposed before I take it, Q . 20 Doctor? 21 Α. I have. 22 How is it that you were retained in this Ο. 23 case? Mr. Marmaros contacted me by phone and 24 How? Α.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 sent me a letter. 2 Ο. Had you ever done any work for his firm 3 before? Δ. No. A. 5Do you know how it is that he got your name? Q. Α. I do not. 6 7 Ο. I have just been handed your CV and quite frankly, I haven't had a chance to totally absorb it. 8 What kind of physician are you, sir? 9 10 M.D.. Internal medicine and oncology Α. physician. 11 Q. Okay. And you're boarded in internal 12 13 medicine? I am not boarded. I am a Fellow of the 14 Α. American College of Physicians. It's slightly 15 different but anyways it's the same idea. 16 Well, all right. Maybe I don't understand, 17 Ο. 18 then. Have you ever taken the boards in internal 19 medicine? 2.0A. No. I am a Fellow of the American College of Physicians, which is the same body but it's a 21 22 different track. Fellowship is actually beyond the 23 boards. I didn't go through the board channel. 24 All right. How did you become a Fellow? Q.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING Elected to Fellowship. 1 Α. By other members of the board? 2 Q. 3 Α. By the American College of Physicians. Yes, 4 sir.  $\mathbf{5}$ Is it the American College of Physicians Q. that would normally administer the tests --6 7 Α. Yes. -- for board certification? 8 Q. 9 Α. Yes. 10 Okay. Were you elected at a time before Q . there were boards? 11 12 No. I didn't go through the boards. And Α. 13 later on I applied for Fellowship and was granted 14 Fellowship. 15 Q. Okay. How about as an oncologist? Are you a board certified oncologist? 16 Because I don't have my internal medicine 17 Α. 18 boards I can't have oncology boards. 19 Okay. Is there a Fellowship for Ο. 20 oncologists? 21 No. Α. 22 Okay. All right. So, you are an Ο. 23 oncologist? 24 I am an oncologist. Trained as an A ..

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING oncologist. Yes, sir. 1 2 Q. All right. And your training consisted of what, in terms of the specialty of oncology, Doctor? 3 Training at Ford Hospital, Henry Ford 4 Α.  $\overline{5}$ Hospital. And when was that? Ο. 6 7 Α. When? I'm sorry. '61 to '63 was your residency? 8 Q. Α. 9 Yes. Yes. 10 Okay. And you have practiced as an Q. oncologist since when, Doctor? 11 Since approximately 1964, '65. 12 Α. 13 Q . Have you written any papers on doubling 14 time? 15 Α. I have not. What is it that you reviewed for purposes of 16 Q. rendering your report, sir? 17 18 Well, I reviewed a lot of things, here. Α. 19 They are not in order. 20Q . Well, did you receive them all at the same 21 time? 22 No. A few things have come in, a few Α. depositions. Engelberg's deposition and Bonnell's 23 24 have come in. Everything else came initially.

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1 Why don't you tell me what you had, Q . 2 initially, prior to actually preparing your report? 3 Okay. Α. You're referring now to a letter by Mr. 4 Ο. 5 Marmaros, I assume? Yes. And it's listed in there. 6 Α, 7 Ο. Okav. And the date of that letter is what? The date of the letter is December 17th, 8 Α. 1990. 9 10 All right. Is that your file in front of Q., 11 you, Doctor? Α. Yes. 12 Why don't you let me take a look at it. 13 Q . Has anything been removed from 14 this file? 15 16 Α. No. 17 All right. Since receiving the initial Q. materials set forth in the December 17th letter, you 18 19have indicated you received Dr. Engelberg's deposition. I'm sorry. You said Dr. Bonnell's as 20 21 we112 22 Α. Yes. And anything else? 23 Q. 24 I don't know exactly what came. I have to Α.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 figure it out. There are depositions and ---2 MR. MARMAROS: Do you want me to 3 help? MR. KAMPINSKI: Yeah. 4 Sure. MR. MARMAROS: I think there are 5 records from Dr. Murphy that were sent to you. I 6 7 think there are records that we received late from the 8 Social Security Administration and the Veterans 9 Administration, I think, which went out to the 10 doctor. I believe the depositions were sent to the doctor. And if there are any other additional medical 11 12 reports -- you have the letter, which are identified 13 in the letter. And I think that's pretty much it. 14 (BY MR. KAMPINSKI): All right. Are there Ο. 15 more letters there, Doctor, or another file there? MR. MURPHY: Can I see that file? 16 MR. KAMPINSKI: Yeah. Hold on one 17 18 second. MR. MARMAROS: Show it to him. 19 20 Α. This is what he's talking about, here. 21 Okay. (BY MR. KAMPINSKI): Okay. What you have 22 Ο. handed me is another file folder and it's got the 23 letter, February 11th, '91, from Marmaros indicating 24

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 additional materials: correct? 2 Α. I think so, yes. These things are all out 3 of order and disorganized, so. 4 Q . All right. 5 MR. MARMAROS: Those are the records that you talked about. 6 (BY MR. KAMPINSKI): Why don't you just let 7 Q. 8 me look through the rest of the stuff. 9 MR. BONEZZI: Pat, why don't you let me look at that. 10 (BY MR. KAMPINSKI): Did you make notations 11 Q. in any of these records, Doctor? 12 13 Α. No. 14 Okay. If, at any time you need to refer to Q., any of this, feel free to do so. Okay? 15 16 Α. Thank you. I probably will. 17 All right. Doctor, would you agree that the Q . 18 theory of doubling time is just that and that is, a theory? 19 20 Oh definitely not. Α. 21 Would you agree that as to any individual, Q . doubling times can be different? 22 23 Α. Yes. 24 Would you agree that -- well, you refer in Q.

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your report to standard growth, growth rates --

- A. Yes.
- Q. -- correct?

A. Yes.

Q. What were you referring to?

There are patterns of growth rates from 6 Α. various tumors that we observe and that are fairly 7 consistent and they are well supported and documented 8 in a variety of sources and we see them, ourselves, 9 clinically. And this simply is the behavior that 10 hundreds of us have observed of tumor growth that we 11 have to account for how a tumor grows on. That's what 12 13 I'm talking about in cell kinetics and doubling time, 14 trying to understand the growth of tissue, we have evolved these patterns and understandings. 15

Q. I guess what I would like to know is what references you're referring to when you claim that there are standard evaluations of growth kinetics, doubling times, and the biology of these tumors?

A. I have about a hundred such references and
articles that I have accumulated. And you can find
these things in at least eight or ten standard
textbooks with references back to cell kinetics and
doubling times. It's virtually in any oncology book

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 that you want to look at. What is the doubling time for a squamous 2 Q . 3 cell carcinoma on the tongue? 4 Α. It's in a range of doubling time. 5 What is it? Ő. And the range of squamous cell carcinoma is 6 Α. 7 usually in the range of 50 to 100 days. 8 Q. I'm sorry. 50 to a hundred? 9 Α. 50 to a hundred days of doubling from the time that we can observe them. 10 And what book would I look at to find that 11 Q. figure, sir? 12 You can find that in several textbooks. And 13 Α. 14 you can find it in a whole bunch of reference articles. 15 Tell me which ones, please? 16 Q . I can't tell you which ones. I'd have to go 17 Α. dig it out. I have been studying cell kinetics for 18 years, probably ten years. And this kind of 19 20 information is not a secret. It's ---2.1Ο. Well, if it's not a secret, tell me where it 22 1\$? 23 Α. I can't. I would have to go get it out for 24 you.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING Q. 1 Fine. 2 Well, do you want to go to the library Α. tonight or what? 3 Q . Well, Doctor, you understand ---4 5 Α. I am not being wise. You wrote a report and you referred to 6 Ο. 7 specific information. I'm asking you where I can find that information, sir? 8 9 Α. I can get it for you. I can't get it this 10 moment. Weren't you asked to have it available here, 11 Ő. 12 today? No. 13 A . Were you told that I wanted any and all 14 Ο. 15 documents or articles and texts that you relied on for purposes of the report? 16 17 Α. I didn't rely on a single text. I'm telling you that you can go to a great body of literature and 18 19 there is information there on doubling time. 20 Q. But yet you can't refer me to any? I could refer you to them. I'd have to go 21 Α. look them up and dig them out. 22 23 Well, you understand we are starting a trial Q . 24 We are here on Thursday. Doctor, when did Monday.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 you plan to do this? 2 MR. MARMAROS: Chuck, no offense, З but when I asked Dr. Brenner, he said he wasn't going 4 to do my research for me. And he told me and you told 5 me to go to the library. I can site it for you in the 6 transcript. 7 MR. KAMPINSKI: I'm asking for 8 what this man relied on. MR. MARMAROS: He told you that he 9 10 didn't rely on anything. MR. KAMPINSKI: He said it is 11 supported by the literature. 12 13 Where, in the literature? I am 14 entitled to know that. 15 I'm trying to answer you. I have been Δ. studying this for over ten years. And I do not have a 16 single source that I'm relying on. I'm relying on my 17 18 accumulated knowledge of this subject that has gone on 19 for a long time. And I have several hundred -- well, 20 I have at least a hundred articles that I have 21 reviewed on cell kinetics. It's not just for this case or just for squamous cell tumor kinetics. I 22 23 consider myself a student of it and I didn't rely on a 24 single article. I can't give you a single article for

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1	this case because there is no such single article.
2	It's a body of knowledge of doubling times.
3	Q. (BY MR. KAMPINSKI): Are you suggesting that
4	some of these articles will say that the doubling time
5	of a squamous cell carcinoma of the tongue is 50 to
6	80; and some will say 60; some will say 70; some will
7	say a hundred, and some will say it's an not accurate
8	measurement?
9	A. Yes, some do.
10	Q. I see. And yet you suggest that it's not a
11	theory; correct?
12	A. You're saying that it's a theory?
13	Q. That's exactly what I'm saying.
14	A. I'm saying it's an observation. You imply,
15	when you say it's a theory, that somebody has invented
16	it and imagined that this is how things happen. This
17	is an observation, a measurement of tumor cells by a
18	variety of means. So, it's not just a theory. It's
19	an observation of a biologic event.
20	Q. How many times have you testified for the
21	defendants?
22	A. How many?
23	Q. Yeah.
24	MR. MARMAROS: If you know.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING Objection. If you know. 1 I can only estimate probably a hundred, 120 2 Α. 3 times. (BY MR. KAMPINSKI): These are for 4 Ο. 5 physicians who are sued for failure to diagnose cancer? 6 7 Α. For whatever. I'm an oncologist. Anything to do with oncology. 8 Well, I specifically asked you how many 9 Ο. 10 Well, is there a difference between times. 11 pre-clinical and clinical doubling times? 12 А. Yes. What is the difference? 13 Ο. Simply pre-clinical is a period of time when 14 Α. 15 we have not had the opportunity to observe and it's a point in time when these cells can't be seen in the 16 17 body. 18 And clinical being? Ο. 19 Α. Clinical is any point from which you can see and measure a tumor. The earliest that we can start 2021 seeing these tumors is probably about a millimeter in 22 size, as we start to see metastases in whatever site. 23 And from then on we can observe the doubling time that 24 takes place.

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1	Q. Typically I thought a centimeter was
2	A. A millimeter.
з	Q. A millimeter as opposed to a centimeter?
4	A. I'm talking about a millimeter.
5	Q. I understand the difference. My question
6	is: Typically in the texts, these hundreds of texts
7	that you're referring to suggest that a centimeter is
8	when a lesion becomes clinically apparent?
9	A. That's when it most often becomes clinically
10	apparent in x-ray or many situations. I'm saying that
11	I see them showing up as metastases in the scan and in
12	various organs as small as a millimeter.
13	Q. All right. Now, is there a difference,
14	Doctor, between doubling time in metastatic disease
15	and primary?
16	A. We don't think so.
17	Q. Who is "we"?
18	A. We. I'm talking about oncologists that I
19	know.
20	Q. Which ones are those, sir?
21	A. I'm talking about the people that I have
22	worked with over the years.
23	Q. Name names. See, I can't cross examine
24	we's. I mean, you're the only one that's here. If in

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 fact you're relying on somebody else --2 Α. I am not relying on anybody. I am relying 3 on my own knowledge of this. All right. So, you ---4 Q. 5 I discussed doubling time with my colleagues Α. in scientific meetings on frequent occasions. 6 All right. So, you don't believe there is a 7 Q . 8 difference in terms of doubling time between metastatic tumors and primary? 9 10 Α. I do not. 11 Is this based on your experience? Ο. Α. 12 Yes. 13 Q. You have never measured, obviously, a pre-clinical lesion? Those are not measurable? 14 15 Α. That's correct. 16 Do you believe there is any difference Ο. between doubling times of pre-clinical tumors and 17 18 clinical tumors? I do. 19 Α., 20Q. You believe there is a difference? Α. 21 I believe there is, yes. Okay. And what do you believe from all the 22 Ο. 23 information, of what the difference is? 24 The only information we have on this, again, А.

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1	and this does get to be a theory, is that in vitro,
2	when you study tumor growth in cell culture, you take
З	lesions and grow them in culture. You see a doubling
4	time that is different. And we try to translate that
5	over to the change in doubling time that we then
6	observe, clinically. So, there is a progression, I
7	think. So, there is a curve of doubling time that
8	starts out rapidly and levels off probably around the
9	10th doubling or so. And by the time these lesions
10	get to somewhere in the range of 20 doublings, we
11	certainly see them, then, at a plateau.
12	Q. Ten doublings would be how large of a tumor?
13	A. Ten doublings is too small to see. It's
14	much too small to see.
15	Q. And 20?
16	A. 20 is when you start to see them. A
17	millimeter.
18	Q. And 30 would be a centimeter?
19	A. Yes.
20	Q. That's a billion cells?
21	A. Approximately.
5.5	Q. What method okay. So, you're saying that
23	you're concluding that there is a difference
24	because of research techniques in vitro as opposed to

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING anything that you might observe in a human because, by 1 2 definition, it's not observable? 3 That's right. Α. 4 0. And is this curve the Gompertizan curve? 5 Α. Yes. 6 MR. MARMAROS: Do you still need 7 the articles? 8 Q . (BY MR. KAMPINSKI): What method do you use 9 for purposes of measuring doubling times, sir? 10 What purpose? Α. What method? 11 No. Q. What method? 12 Δ. 13 Q. Yes, sir. 14 А. It's simply a mathmatical calculation of the 15 volume of the tumor. 16 All right. Would that be, then, the Q . 17 occurrence method? 18 I don't know. Α. 19 You don't know what that is? Q . 20 The what? Α. 21 Ο. Occurrence. Occurrence? I don't know what you mean by 22 Δ., 23 that. 24 Occurrence: O C C U R E N C E? Q.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING I'm not familiar with that. 1 Α. 2 How about DNA flow cytometry? Ο. Cytometry is not a measurement. 3 Α. It's a method, though? 4 Q . It's a method. 5 Α. 6 Q. That's what I asked you. 7 MR. MARMAROS: Can he finish his 8 response? 9 Q. Go ahead. What I told you before is very true, Doctor. If you do not understand a question, 10 11 tell me. But what I asked you a moment ago was what method you used to determine doubling time? 12 The method I'm using in my discussion of 13 Α. 14 doubling time is your measurement of the tumors that we can see counting the cells. 1516 Q . All right. 17 And measuring tumor volume. Measuring the Α. volume of a growth. 18 Okay. So, in other words --19 Q., 20It's a mathematical measurement. Α. 21 Q . And you have to have, obviously, two 22 measurements, don't you? 23 Α. Right. 24 Otherwise, you can't make any conclusions; Q .

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A. That's right.

3 So, you would measure at Point A, for Q. 4 example, one centimeter and you would measure that 5 same tumor at Point B, and let's say it's two Therefore, it's double you can then 6 centimeters. 7 determine for how long it took it to double. Would 8 that be what you're talking about? 9 Α. That's correct. 10 Q. That would not be DNA flow cytometry, then. 11 It's simple ---12 Simple measurements. Α. What is DNA flow cytometry? 13 Q., 14 It's a calculation or measurement of the Α. 15 cells in cell growth, of the observation of the DNA pattern that is seen in surveying a slide of cells. 16 17 Ő. Do you do that? No, I do not do that. 18 Þ., 19 Do they do it at the hospital you're at? Q. 20 A . Yes. Who does it? 21 Q . 22 Dr. Heraldo (phonetic). А. 23 Who is he? Q. 24 Α. He is a pathologist.

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Why would he do it and you not do it since 1 Ő. 2 you're a student of doubling time? I don't have the ---З Α. 4 MR. MARMAROS: Objection. 5 -- training in doing flow cytometry. Α. I don't do any pathology. 6 7 (BY MR. KAMPINSKI): Do you understand it? Q . 8 Α. I do. 9 Ο. What is tritiated thymidine? Tritiated thymidine is labeling where there 10 Α, is radioactive hydrogen. It's used to label the cells 11 and you then measure the radioactive cells and count 12 13 the number of cells going through replication. 14 Q. And what is its purpose? The purpose is to establish the growth of 15 Δ. cells. 16 17 Do you do that? Ő. I did when I was a student. 18 Α. That was, what? 20 years ago? 19 Q. 20 20 years ago, yes, sir. It's an old A. 21technique. 22 Why don't you use it now? Q . 23 A. I'm not in research any more. 24 Do you believe in the staging of tumors, Q.

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1 sir? 2 Yes. Α. 3 Q. What form of staging do you subscribe to? For the most part TML. There are so many 4 Α. 5that you can use the one you want. Do you use that for purposes of treatment? 6 0. 7 Α. Yes. 8 Q. You don't use doubling for purposes of treatment? 0 10 My doubling is an interest of mine to Α. No. satisfy patients and physicians and attorneys as to 11 understanding tumors and I do not use it to establish 12 13 a treatment plan. I use it to explain things. Well, of course, Doctor, because if you used 14 Q. 15 it for purposes of a treatment plan, based upon your 16 theory of doubling, as I understand it, you wouldn't 17 treat a lot of people because they would already be 18 metastasized and there wouldn't be any hope for them? MR. MARMAROS: Objection to your 19 20theory of doubling time. I thought you had gone 21 through that. As a matter of fact, the reason that so few 22 Α. 23 cancers are cured, today, is because of this problem. 24 You're exactly right. Yes.

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Ő. (BY MR. KAMPINSKI): So, when people come to 1 2 you with a certain size tumor you don't treat them? MR. MARMAROS: Objection. 3 I try to treat what I can treat. In No. 4 Α. 5 breast cancer the reason we used adjunctive cluster therapy is because we understand this problem. 6 7 We know that, in fact, that the tumors that eventually evolve in any breast cancer have been there for a long 8 time and it's metastatic to the bones, even though we 9 10 only have few nodes, we have developed adjunctive therapies to attack this whole issue. 11 Well, if it's to the bone already, Doctor, 12 Q. 13 that person is dead; isn't that --The patient is going to live for a long 14 Α. time. And if we can slow that down or stop those 15 16 cells in the bones, that's the whole purpose of breast 17 adjunctive chemotherapy, which is, in fact, based on 18 this knowledge of cell kinetics. 19 In terms of staging, is size a factor in Ο. 20 staging? 21 Α. Yes. 22 Is perineurial invasion a factor? Q . 23 Α. Yes. 24 And are those factors for purposes of Q.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 prognosis? 2 Δ. Yes. 3 Are those factors for purposes of Ο. determining whether or not there has been metastasis? 4 5It's a guess at that point. Α. 6 Ő. Do you consider any authors or works to be 7 authoritative as it relates to tongue cancer? 8 MR. MARMAROS: Objection as to authoritative. 9 10 Α. No. 11 (BY MR. KAMPINSKI): Do you consider Ο. 12 yourself authoritative as it relates to tongue cancer? 13 Α. No. 14 Is your practice of oncology, is it Ο, specialized as to certain types of cancer? For 15 16 example, I notice that you use xeromammography. I 17 quess my question is: Is that what you do is breast 18 cancer? 19 Approximately 50 percent is breast cancer. Δ., 20 Q . How about the other 50 percent? General. 21 β., 22 General oncology or general medicine? Q. 23 Α. General oncology. 24 And do you see many tongue cancer patients? Q .

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 Α. I see probably four or five a year. 2 Okay. Cure any of them? Q . 3 Do I cure any? Α. 4 Ø. Yeah. 5 Α. I think I have had two that I know of that I have been involved in their treatment that were 6 7 cured. 8 Q. Okay. And ---Α. 9 Not very many. 10 How big were the tumors when they came to Q. you? 11 12 Α. I don't recall. Well, had they undergone hemiglossectomies 13 Q . 14 already? 15 Most of the patients I have seen, obviously A. as an oncologist, have already undergone some 16 17 treatment. The ones I'm referring to, yes, in fact had had radiation therapy and surgery and I was 18 19 involved in their chemotherapy concurrently. Okay. And how long ago were those people ---20 Q . Last four or five years. 21 Α. Would you consider Maddox an authoritative 22 Q . 23 source on tongue cancer? 24 MR. MARMAROS: Objection as to

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1 authoritative. He has already answered it. 2 Α. Yes. I would think he would be, yes. 3 MR. MARMAROS: Well, I'm going to -- Doctor, did you hear the question about 4 5 authoritative? Because previously he asked you if you 6 considered any texts to be authoritative. 7 MR. KAMPINSKI: If you have an 8 objection, make your objection. Don't make a speech. 9 He heard me. I think we are doing fine. 10 MR. MARMAROS: I don't think he 11 did. 12 You asked me if he was an authority and I Α. 13 said: Yes, he is an authority. There are a lot of 14 authorities of people or people thought to be 15 authorities. 16 Q. (BY MR. KAMPINSKI): You have read his works? 17 18 I have read some. I'd have to go back and Δ. look. I have read so much and so many authors I do 19 20 not, again, rely on any particular one. 21 Q. I take it, based on what you told me 22 earlier, that you do not believe that tumors have a 23 constant growth; correct? 24 I think they do not have a constant growth. Α.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING I think it changes during the course of the cells of 1 the life history of that tumor. 2 Okay. And that would be true, then, both as З Q. to primary and metastatic tumors? đ. I would imagine, yes. 5 Α. Well, I mean, do you know? Q. 6 77 Α. Do I know? 8 Q. Yeah. No, I don't know exactly, but --9 Α. Sure. Because this is quess work. 10 Q. 11 MR. MARMAROS: Objection. What is guess work? 12 (BY MR. KAMPINSKI): As to whether or not 13 Ο. it's constant growth for either/or both? 14 We have to go on the observations we can 15 Α. 16 make on either primary or metastatic lesions. 17 Ο. Yeah. And on one patient they seem to be in --18 Α. 19 whatever tumor we are talking about, they seem to form a pattern. Biology is not an exact science and so we 20 will see variations from month to month and year to 21 22 year in anything in biology. So, there will be 23 changes. And each person would be different? 24 Q.

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1 Α. Each person is different. 2 Q. Each tumor would be different? З Yes, but there are patterns. Fairly Α. reliable patterns. 4 5 That doesn't help as to individuals? Ο. 6 Α. It's a help to individuals. We have a 7 pattern that a tumor of a certain type will adhere to. In other words, a squamous cell in the head and ĝ 9 neck is not going to behave like a lymphoma or a breast cancer. It's going to be different. 10 11 Q . You believe that the tumor that was on Mr. Yafanero's tongue that was observed by Dr. Landsman is 12 13 the same that was there in December of 1986 when Dr. Alperin saw it; is that correct? 14 I believe it is. 15 Α. 16 So, this theory that somehow it was removed Q. 17 and a new one grew there, you don't subscribe to that 18 theory? I don't. 19 Α. 20 Q . So, therefore, you believe that it was not all removed? 21 I believe that. 22 Α. 23 Okay. Do you believe that it was clinically Q . 24 observable throughout the period of time from December

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING of 1986 through August of 1987? 1 2 Α. I wasn't there to see it but I presume it 3 was. Have you read any of the depositions of the 4 Q. family members, Mrs. Yafanero, her daughter, her 5 mother, or, have you been told what they have said --6 7 Α. No. -- as it relates to that? 8 Ο. No. I have not been told nor have I seen 9 Α. 10 them. 11 Okay. Were you told what a psychologist Ο. said about what Mr. Yafanero said, today? 12 13 Α. No. Okay. Were you told about the testimony of 14 Ο. 15 Dr. Bhaskar two days ago? 16 No. Α. Obviously you haven't had a chance to see 17 Ο. 18 his deposition because it wasn't written up, yet? 19 Δ. No. You were not advised of his findings? 20 Q., 2.1No. Δ. He believes that the slides that he observed 22 Q . 23 that were recuts of the pathology done on December 24 12th, 1986, reflect carcinoma in situ. Were you told

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 that? 2 MR. BONEZZI: Objection. 3 MR. MURPHY: Objection. That's 4 not correct. 5 MR. MARMAROS: Objection. You may 6 answer. 7 MR. KAMPINSKI: Well, I mean, how am I incorrect? 8 9 MR. MURPHY: He only looked at one 10 slide. 11 MR. KAMPINSKI: Oh. You're saying I said slides instead of slide? 12 13 MR. MARMAROS: Why don't we get a 14 new question, then? 15 MR. KAMPINSKI: Sure. 16 MR. MURPHY: I don't know if it 17 was a recut or a cut. It was a slide is all I can 18 tell you. MR. KAMPINSKI: A slide of the 19 20 pathology as it relates to the December 12th, 1986, 21 biopsy of Dr. Alperin. Can we agree with that? MR. MURPHY: Yeah. 22 23 Ô. (BY MR. KAMPINSKI): Okay. Fine. And that 24 he believes that that slide reflects the existence of

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 carcinoma in situ. You're not aware of that? 2 No. Α. 3 But that doesn't surprise you? Ο. MR. MARMAROS: What do you mean by 4 5 surprise him? 6 0. (BY MR. KAMPINSKI): In light of your belief 7 that there was, in fact, cancer present? I'd have to see more of what he's saying. 8 Α. No. I understand you haven't seen it. I'm 9 Q. 10 asking you, though: Is that consistent with what you're testifying to? 11 12 Α. He may have had carcinoma in situ. I am also saying he has this tumor that's been tracking 13 along. He may still -- there are many of these 14 15 patients that have multiple sites. I don't know what 16 Dr. -- what is his name? 17 MR. MARMAROS: Bhaskar. Bhaskar is looking at or talking about. I'd 18 Α. 19 have to see it. 20 Q. (BY MR. KAMPINSKI): We are missing communications. I don't mean that to be the case and 21 I don't mean to confuse the issue or confuse you at 22 23 all, Doctor. 24 Two days ago Dr. Bhaskar -- and I

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know it's not in his report that I got. I got his 1 2 report for the first time. And he testified that he 3 had an opportunity to look at a slide that was part of the specimen that was removed from the lesion on Mr. 4 5 Yafanero's tongue on December 12th, 1986? 6 Α. Okay. 7 Ο. All right. And that is contrary to the pathologist's report that that slide reflects 8 g carcinoma in situ as opposed to pseudoepitheliomatous 10 hyperplasia and reactive atypia, okay? That finding 11 is consistent, is it not, with your belief as to what 12 was present in Mr. Yafanero's tongue? MR. BONEZZI: Objection. 13 MR. MARMAROS: Objection. 14 15 Which ---16 (BY MR. KAMPINSKI): Of carcinoma in situ? Q. 17 I don't know that I really understand what Α. 18 you're asking me. I would have to know a lot more 19 about what he's looking at on his slides in calling 20 carcinoma or instead of leukoplakia. I understand that you haven't looked at it. 21 Ο. 22 I'm asking you to assume that he is accurate in his 23 observations and what he believes they are. 24 It's not quite consistent with what I am Δ.

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4	talking about because I think, in fact, this tumor
2	that I'm talking about may even predate that. We are
3	talking about a process that's been going on in this
4	man's head and neck area for some time. Now, they
5	biopsied an area in 1986, yes, and it had changes in
6	it. Whatever they are going to be, benign or
7	malignant or atypical, time will tell. They can argue
8	that and take a vote. But there was something going
9	on there. Now, what I am seeing, however, later on is
10	a cancer that has been growing for a period of time.
11	Q. And you're trying to extrapolate from the
12	cancer you see later on as to how long it had been
13	growing?
14	A. Yes.
15	Q. Okay. Now, carcinoma in situ is different
16	than a frank cancer, can we agree with that?
17	A. No. A frank cancer is simply a cancer that
18	has not yet gotten far enough to do other things.
19	Q. Okay. I misspoke. And those other things
20	being metastasized?
21	A. Yes.
22	Q. So, that the observation of carcinoma in
23	situ, if that were the only thing that were present in
24	December of 1986, would then be inconsistent with your

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 theory? 2 I think it would be inconsistent, yes. Α. З And it would be consistent, then, with the Ő. lack of metastasis at that time; correct? 4 5 Α. Yes. 6 And it would then also be consistent with 0. 7 the ability to cure an individual if it were all removed? 8 Q. Α. Yes. 10 All right. Now, in terms of doubling time, Q. how did you arrive -- or, did you arrive at a specific 11 12 numerical day for the doubling time for Mr. Yafanero's tumor? 13 14 А. No, I did not. I have no way of doing 15 that. 16 Well, I mean you --Ο. 17 I have not a measurement of the exact same Α. 18 tumor over two measurements. Well, you do, don't you? 19 Q . 20 No, I do not. Δ. Well, you -- referring in your report, 21 0. 22 Doctor -- I mean, I must confess I was -- excuse me. 23 Let me finish my question. 24 I must confess I was a bit

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING confused by it because you do refer to measurements in 1 And you might want to grab your report. 2 there. I remember the report. З Α. Page 2, paragraph one, do you 4 Ο. Okav. 5 remember that? I don't remember paragraphs. 6 Α. 7 Ο. That's why I suggested that you look at your 8 report. MR. MARMAROS: It may make things 9 10 go quicker. (BY MR. KAMPINSKI): Page 2, paragraph one. 11 Q. This is not my report. Yes, it is. 12 Α. 13 Paragraph one. Okay. Sure. You state that the neck disease 14 Ο. discovered in August of '88 measured at least five 15 16 centimeters by Dr. Katz' report. And also at that 17 time there were x-ray measurements of one centimeter lesions in the lung. The patient had measurements in 18 19 10-88 of six centimeter tumors within the lung? 20 Okay. Α. 21 Where did you get that from? Q. 22 From the various -- now, that's a mistake. Α. The one -- the six centimeters was not in the lung. 23 That was in the neck. That's a mistake in my 24

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 dictation. 2 Q. Sure. You try to be careful, don't you, in З analyzing these ---Α. I do. 4 5 Q . -- records and in giving opinions? 6 Α. I do, but that is a tumor in the neck not in 7 the lung. Right. 8 Q . 9 Α. Okay. 10 Q. Well, if you have got a five centimeter tumor in August of '88, assuming that's right -- and, 11 12 by the way, where did you get that information? 13 It was in the records. А. It was in the records? 14 Ο. 15 Α. Chart. Do you know where? 16 Q . 17 Α. I can find it. Why don't you do that? 18 Q. 19 Well, it will take awhile. Where are all Α. the records? Where is the other pile of records? I 20 had some folded over and some things --21 They are all -- they are all right there. 22 Ο. 23 No, they are not all here, sir. Α. 24 Are these your folders? Ο.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 MR. MARMAROS: You might want to 2 look for Dr. Katz' file. 3 There is another file. Α. MR. KAMPINSKI: Did you have his A. 5 other file? MR. BONEZZI: No. It's right 6 7 there. 8 Α. That has the folder we were arguing about. Okay. I would have to go through all of this and find 9 10 out where it is. 11 (BY MR. KAMPINSKI): Well, let's assume ---Q. look, I don't want to do this to you, Doctor. 12 Well, I can help you by telling you what I'm 13 Α. 14 talking about. 15 Ô. Good. 16 Yeah. There is a six by six sontometer mass Α. 17 in the neck. 18 Ο. What is the date of that? October 14th? 19 October 19th. October 14th. Okay. Α., 2.0Q . All right. And when was the five -- what was the other one? Five sontometers? Five by three? 21 22 I don't know that those are the same tumors, Α. 23 sir. 24 Oh. Well ---Q.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 Α, You're assuming they are the same tumors. I 2 am not. 3 Q . You are not. So, these measurements really are of no assistance to us in trying to figure out 4 5doubling times? 6 Α, No, they are not. 7 Q. Let's assume they were, just for the sake of 8 argument. And if you had a five sontometer mass ---9 I'm sorry. When was it? August? 10 Α. August. 11 Ο. And a six sontometer mass in October, what 12 would be the doubling times? 13 MR. MARMAROS: Objection. 14 Well, that is not a doubling. That's 60 Α. 15 days I quess we are talking about. I would have to go read the dates. And that is an increase in volume of 16 17 probably, oh, 50 percent in volume. (BY MR. KAMPINSKI): From five to six is an 18 0. 19 increase in volume of 50 percent? Yes. Approximately. It is not a doubling. 20 Å . 21 Right. Q . 22 And so, just on that simple calculation, the Α. doubling time, then, would be approximately 120 days. 23 24 Q . Okay. How about the previous measurements

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING of August 18th, 1988? 1 Of three and a half sontometers? 2 Α. No, sir. Of two sontometers. 3 Q. Okay. Again, are we talking about the same 4 Α. 5 lesion? Q . Yes, sir. 6 7 Α. Okay. 8 Q., So, now we have got a two month period, August 18th to October 15th, where it went from two 9 sontometers --- I'm sorry. August 18th --- wait a 10 11 second. MR. BONEZZI: Was that '87? 12 MR. KAMPINSKI: No. August 13th 13 it was measured as five sontometers and August 18th it 14 was measured as two sontometers. 15 16 MR. MARMAROS: Where are you at? 17 Α. You have got me. (BY MR. KAMPINSKI): Is there a measurement 18 Ο. 19 of the neck of two sontometers on August 18th, sir, of a neck node? 2021 Α. August ---22 Q., 18th. There may be. As I recall, there was. 23 Α. 24 Q . And would it be more accurate if there was a

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1 measurement by way of CT or x-ray rather than by way 2 of palpation? 3 Certainly. I don't have specific Α. 4 measurements of the same tumor over two points in 5 time. At least I haven't been given them or haven't had the opportunity to see them. 6 7 Q. So, as to Mr. Yafanero, then, there is 8 absolutely no way you can tell the doubling time of 9 the tumor? 10 I cannot tell you what his doubling time Α. 11 is. I can tell you what doubling time of head and 12neck carcinoma usually is. 13 All right. Let me ask you the following Q. hypothetical, Doctor: If, in fact, we had a lesion on 14 15 the tongue of approximately the size of the end of a 16 pinkie. Okay? 17 Δ. One sontometer. Yeah. Let's say one sontometer. I think 18 Q. that's probably a fair approximation. And let's say 19 20 that observations over the next one year period of time remained the same. What would that tell you 21 about the theory of doubling time? 22 23 MR. MURPHY: Objection. 24 MR. MARMAROS: Same objection.

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1	A. If it's a tumor and it hasn't changed in a
2	year, then it's probably not a cancer, or somebody is
З	measuring it wrong. If it's a cancer and growing,
4	it's going to change in size over a year.
5	Q. (BY MR. KAMPINSKI): Are you assuming the
6	accuracy of the measurements of Dr. Landsman of the
7	tumor in August of 1987?
8	A. Am I assuming it?
9	Q. Yes.
10	A. What about it?
11	MR. MARMAROS: For what purposes?
12	Q. (BY MR. KAMPINSKI): For the accuracy of it,
13	for purposes of doubling time?
14	A. I'm not assuming the accuracy of his
15	measurements at all.
16	Q. Why not?
17	A. I have no reason to know whether he measured
18	it accurately or not.
19	Q. He put down, I believe, and correct me if
20	I'm wrong: Three by four?
21	MR. MARMAROS: Two by three.
22	Q. (BY MR. KAMPINSKI): Two by three. I knew
23	you would correct me.
24	A. Yes.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING Dr. Katz measured the tumor in March of '88, 1 Ő. 2 didn't he? 3 Yes. Α. A Ο. What was his measurement? 5 Α. The measurement was three and a half sontometers in March of '88. 6 7 Well, if it was two by three by Dr. 0. 8 Landsman's measurements in August and it was three sontometers in March of '88, what would that tell you 9 about the doubling time? 10MR. BONEZZI: Objection. 11 Well, it's gone through about one doubling 12 Α. 13 over a period of about five months. 14 Q. (BY MR. KAMPINSKI): You mean from two by three to three is one doubling? 15 16 So, less than that. Α. 17 MR. MARMAROS: It wasn't -- what 18 do you mean to three? 19 Three and a half sontometers. If you went Α. 20 from two sontometers to three and a half or --21Ο. (BY MR. KAMPINSKI): Yeah. These are very rough measurements, 22 Δ. 23 obviously. 24 Sure. Q.

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4	A. I don't rely on the accuracy of them. It's
2	approximately a doubling. The diameter isn't
3	doubling, the volume is doubling. Okay? This is
4	about what you're describing is about a doubling.
5	Okay. You're describing a doubling that took place
6	over five months.
7	Q. Seven months.
8	A. Seven months. You said October.
9	Q. I said August to March.
10	A. You said August. Okay. Then, seven
11	months. Then, you have a relatively slow growing
12	tumor which is very typical of these tumors. That
13	very fact tells you that this tumor is not doubling in
14	a few days or a few hours. It's behaving as head and
15	neck cancers are supposed to behave.
16	Q. Very slow growing?
17	A. Very slow growing. The tumors in his neck
18	and lung did not appear overnight nor did they appear
19	in the preceding six or seven months.
50	Q. Well, what day did they metastasize to his
21	neck?
22	A. What day?
23	Q. Yes, sir.
24	MR. MARMAROS: What day was it

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING discovered? 1 2 MR. KAMPINSKI: He heard me. 3 Nobody knows what day. What year? Several Α. vears earlier. 4 (BY MR. KAMPINSKI): What day did it 5 Ő. metastasize to his neck? 6 7 Α. Who knows the day? 8 Q. Well, the fact of the matter is -g I'm talking, sir, that it is months and p. . 10 years not days. 11 The fact of the matter is there is nothing Q. clinically observable in his lung, either by way of 12 x-ray or any other fashion, until August of 1988 --13 '88. 14 Α. -- isn't that true? 15 Ο. 16 That's right. Α. 17 And there was nothing that was felt to be a Q . metastatic lesion to his neck until August of '88, 18 19although, in retrospect it may have been there in March of '88? 20 21 A. It certainly would have been. 22 Your opinions are one thing. I'm talking Q . about observable facts. 23 24 My opinion is it certainly would have had to Α.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 have been there. I understand. I'm talking observable facts 2 **0**. 3 not your theory. Observable and facts are not necessarily the 4 Α. 5 same thing. Now, somebody may have observed it then 6 but that doesn't say what really it was doing then. 7 Sure. Nor can you tell us because you Ο. weren't there. You didn't see him. 8 9 That's right. Α. 10 Ο. You weren't able to observe or did anybody 11 else observe it at that time and that makes it theoretical; correct? 12 Theoretical? I don't know. I don't like 13 Α. the word theoretical. 14 I know, but that's what it is. 15 Q . It's not theoretical in my opinion. 16 Α. When you measure a tumor by volume are all 17 0. 18 of the cells that you're measuring doubling? 19 No. Α. Because some of them are dying? 20 Q. Yes. And being replaced. 21 Α. 22 And some of them are not in a growth phase? Ο. 23 That's right. Α. 24 Some of them are being shed? Q.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 Α. That's right. 2 Ο. Some of them don't have the ability to 3 metastasize? Truly. We are talking two things. A Α. 5Q. I didn't ask you a question, yet, sir. MR. MARMAROS: You don't want him 6 7 to explain it to you? (BY MR. KAMPINSKI): I understand. I mean, 8 Q. 9 you're agreeing so far with what I have said? 10 Α. I'm agreeing with what you're saying, yes. 11 Q. Okay. And if you measure, Doctor, at points 12 and time when somebody is receiving treatment, doesn't 13 that effect your theory? Yes. It slows it down. 14 Α. 15 All right. So, if you measure when somebody Ο. 16 is getting radiation or chemo, that potentially 17 effects this entire theoretical observation; right? 18 Α. Yes. And if you're measuring a primary tumor, for 19 Q., 20 example, at a number of points in time, that still does not tell you when cells metastasize from that 21 primary tumor, does it? 22 23 Α. No. 24 So, even if a primary tumor is Okay. Ο.

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1	doubling, that doesn't necessarily equate to a certain
2	point and time where there is metastasis; correct?
з	A. No. You can only extrapolate.
4	Q. Right. So, what you're doing, you're not
5	going from the size of the primary tumor but rather
6	from the existence of metastatic tumors and
7	extrapolating back?
8	A. Exactly.
9	Q. Saying they are a certain size, therefore,
10	they must have been there at an earlier time?
11	A. I am extrapolating back from metastatic
12	disease, yes.
13	Q. You would agree, would you not, many people,
14	even who subscribe to the doubling time theory, who
15	believe that metastatic disease grows much quicker
16	than the primary disease?
17	A. Yes. I know that. There are many
18	controversies in this area.
19	Q. Right. That's why it's a theory.
20	MR. MARMAROS: Objection.
21	Q. (BY MR. KAMPINSKI): Right?
55	A. If you wish.
23	Q. And in terms of measuring, when you measure
24	any given tumor at two points in time, for the

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 doubling time to have any validity at all, you have 2 got to catch it in its potential growth phase, don't 3 you? Д MR. MARMAROS: Objection. 5No. Α. (BY MR. KAMPINSKI): Well, I mean, if you ---6 Q . 7 You're talking cells. I'm talking tumors. Α. 8 You're talking volume? Q. 9 I'm talking a tumor and you're talking Α. individual cells. 10 11 0. No. I think if we are talking about its potential growth phase, you're talking about tumor as 12 13 opposed to --14 Α. Okay. We are both talking about the same thing. 15 Ο. 16 Don't you have to catch it while it's growing to get a 17 valid measurement? 18 MR. MARMAROS: Objection. Well, you have to catch change, yes. 19 Α. 20 (BY MR. KAMPINSKI): Right. So that if it's Ο. 21 not growing and you're measuring it, then, that doesn't -- that will askew your measurement as to 22 23 doubling time? 24 Yes. Α.

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Which is why you can't use average numbers 1 Q. 2 for any given tumor? 3 Α. You have to use average numbers, however. Well, no, you don't have to use average Q. 4 numbers at all, do you, because you may be right and 5you may be wrong? 6 MR. MARMAROS: Is that a 7 question? 8 (BY MR. KAMPINSKI): Yeah. Isn't that 9 Q. 10 right? MR. MARMAROS: Don't answer that. 11 You're asking him about whether he may be right or he 12 may be wrong? 13 MR. KAMPINSKI: Yeah. 14 15 MR. MARMAROS: You want him to tell you that he is wrong? 16 MR. KAMPINSKI: Well, that would 17 shorten things up. 18 MR. MARMAROS: Come on . That's 19 20 your question? 21 (BY MR. KAMPINSKI): Did you understand my Q. 22 question, sir? 23 No. Α. 24 By using average doubling time, that doesn't Q.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 tell you anything necessarily about an individual 2 tumor, does it? 3 It doesn't precisely tell you about an Α. individual tumor, no. 1 5 Do you assume that a tumor grows from day Ο. one? In other words, when one cell is shed into 6 7 either the blood stream or the lymph system, that it 8 commences growing from that first day? We don't know. 9 Α. Do you assume that a tumor grows from one 10 Ο. cell or a colony of cells? 11 We don't know. 12Α. 13 Q . Well, if --Most people doing research in this area feel 14 Α. 15 it's a colony, a cluster of several cells. That breaks off from the primary somehow and Q . 16 17 spreads to some other portion of the body? Small enough to get through a blood vessel 18 Α. but not too big to occlude it and such, yes. 19 20 Q . Okay. So, that's --21 Probably a half a dozen cells. Α. Well, it could be millions of them, couldn't 22 Ο. 23 it? 24 Α. No.

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MR. KAMPINSKI EXAMINING

1	Q. Couldn't it?
2	A. No.
з	Q. That would be too big?
4	A. Too big.
5	Q. Okay. And there are natural defense
6	systems, are there not, that would prevent even
7	metastatic cells from necessarily growing?
8	A. There are probably millions that die off in
9	the process.
10	Q. Sure. So, even if these clusters are being
11	thrown off and get through the various layers that
12	they have to get through, that doesn't necessarily
13	result in the spread of the cancer to other parts of
14	the body?
15	A. Well, spread to other parts of the body.
16	They do not necessarily grow.
17	Q. I'm sorry. You're right. So, even though
18	they might spread, they might there might not be
19	metastatic disease?
20	A. True.
21	Q. Would you agree that you can have doubling
22	times of tumors as little as 11 days?
23	A. In vitro, certainly. In vivo, we don't
24	know.

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1 Ø. Okay. So, under research mediums, that's true. You just don't know in a human being? 2 3 Α. That's right. 4 But if you're extrapolating from research, Ο. 5that would lead you to conclude that that can be true? There is a point in time when we know it's 6 Α. 7 as short as ten or 11 days or depending on which tumor 8 you're looking at, and at some point and time it is 9 now established as a much different doubling time. 10 So, between Point A and Point B the process is slowed 11 down. Slowed down drastically. It's gone from a few days to weeks and months. Now, we have at this point 12 13 and time, now, the opportunity to observe a fairly 14 steady state of growth. From the earliest observations, again, of a millimeter and beyond. And 15 16 we follow these tumors up to very bulky tumors and we 17 see at that point a fairly constant growth rate. 18 Ο. So, you're talking, once again, about 19 clinical tumors? 20Δ. Yes. So, we extrapolate back from that to the pre-clinical. 21All right. But there is no scientific basis 22 Ο. 23 of doing so? In other words, it has not been proven 24 scientifically?

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It cannot be proven one way or the other. 1 Α. 2 So, for example, in formulating this theory, Q . it is theoretically possible, for example, for you to 3 4 have a growth phase of a non-clinical tumor with 5doubling times of five days? Α. Presumably. 6 Sure. And then that could change once it "7 Ő. 8 becomes clinical and you, as a physician, just don't 9 know? That's right. 10 Α. Would you agree, Doctor, that leukoplasia is 11 Ο. an indication for biopsy and appropriate local 12 13 therapy? 14 Α. Yes. Leukoplakia. Yes. I'm sorry. What did I say? 15 Q . Leukoplasia. 16 Α. Okay. Leukoplakia. And what is 17 Q. leukoplakia? 18 It is a change that is taking place in the 1.9Α. epithelium that's a placque-like appearance of the 20 21epithelium of the lip or the oral cavity. Do you have any opinions as to the standard 22 Q. of care of any of the physicians involved in this 23 24 case?

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1	A. No. I did not address that issue.
2	Q. But you would agree, would you not, that a
3	physician faced with a clinically apparent growth has
4	an obligation to biopsy and follow that patient and
5	not release him and tell him there is nothing to worry
6	about
7	MR. MARMAROS: Objection.
8	Q. (BY MR. KAMPINSKI): wouldn't you?
9	A. I would simply agree that he has an
10	obligation to see the patient is cared for. He may
11	not do it himself.
12	Q. You're suggesting that either a referral or
13	if it's within his specialty, then, he would have to
14	do it?
15	A. Yes.
16	Q. And when you say cared for, you're talking
17	about either biopsying it, removing it, treating it
18	somehow, but not just allowing that patient to leave
19	his care?
20	A. Yes.
21	Q. Okay. And the failure to care for it in
22	that fashion would be a failure to adhere to the
23	appropriate standard of care required of that
24	physician, would it not?
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1	A. Depending on the circumstances, I agree,
2	yes. There are extenuating circumstances where the
3	patient is non-compliant, whatever. Who knows?
4	Q. Sure. Who knows?
5	A. For the most part.
6	Q. And your patients rely on you as a
7	physician, don't they?
8	A. I hope so.
9	MR. MARMAROS: Objection.
10	Q. (BY MR. KAMPINSKI): Right. When you tell
11	them there is nothing to worry about, you would hope
12	that they listen to you, wouldn't you?
13	A. Most of the time, yes.
14	Q. There would be nothing wrong with them doing
15	that, would there, because that's why they come to you
16	as a skilled practioner?
17	A. Yes.
18	Q. Is it your opinion that cancer that is
19	clinically observable as a lesion on the tongue is not
50	curable?
21	A. No, I wouldn't say that.
22	Q. All right. So and I apologize. I don't
23	really mean to be repetitive but let me just finish
24	this thought process.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 You don't decide to treat or not 2 to treat somebody based upon this theory of doubling З time? Absolutely not. 4 Α. 5 Q. And you treat them based upon staging; 6 correct? 7 Α. Yes. But you must understand staging, that 8 staging also isn't an exact science. We stage what we 9 can see. 10 Q. Right. 11 Δ. And then we wait and find out what the stage really is. Many of the patients that I have treated 12 13 with head and neck cancer never get lung metastasis. And so in those situations I'd say that their staging 14 15 possibly was accurate and it was a true reflection. 16 The ones who end up with liver or lung or bone 17 metastases two or three years later, their staging was 18 only an approximation staging and it wasn't accurate. 19 Staging has inherent limitations. 20 Q. And from what you told me so does doubling 21 time; correct? 22 How do you mean? Α. Well, I mean by virtue of the fact that 23 Ο. those who you have treated, obviously they have been 24 MOUNT CLEMENS, MICHIGAN Gerald Hanson & Associates

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clinically apparent, sufficient to have referral to an 1 oncologist; correct? 2 3 Α. You have lost me. Well, I mean, they don't come to you unless 4 Ο. it has already been clinically observed, these head 56 and neck cancer patients, right? They come to you for 7 chemo or radiation? I frequently see them in the initial team 8 Α. approach with the radiation therapy and the surgeon as 9 10 the oncologist. So, it's already been clinically 11 Ο. Sure. apparent; correct? 12 It's been diagnosed for the most part, yes. 13 Α. Maybe we are saying the same thing. 14 Q. 15 I see these patients frequently at the Α. initial diagnosis. 16 17 All right. If we used your doubling time Q. theory. Doctor, those people would have had metastases 18 already; correct? 19 20 A. I didn't say that. You're saying that. Ĭ am not saying that. 21 22 Q. Well, isn't that true --23 No. Α. 24 -- based on your theory? Q.

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1	A. No. Doubling time does not tell me whether
2	the patient has metastases or not. I am saying a
з	patient who shows up with this metastases at some
4	point and time the size and distribution of those
5	metastases then tells you something about this
6	patient's doubling time. It's common sense if I
7	remove a cancer and I think it's all gone and two
8	years later lung metastases are there or six months
9	later, then, it wasn't gone when I removed it. I left
10	some behind. There was a tumor in the cell, either
11	I mean, there was a tumor in the lung at the time I
12	was treating the primary.
13	Q. If the node in the neck was five sontometers
14	in August as you set forth in your report
15	A. Yes.
16	Q how big was it in March when Dr. Katz saw
17	Mr. Yafanero?
18	A. I don't know. Didn't measure it.
19	Q. Well, how big was it according to him?
20	A. The tumor that was measured in March of '88
21	I believe is when you're talking about?
22	Q. Yes, sir.
23	A. Was three and a half sontometers.
24	Q. No, sir. I'm talking about the neck

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING metastases, which is what you're extrapolating back to 1 say that the tumor was there for many years. 2 It wasn't measured. З Α. Well, did you go through these records 4 Ο.  $\mathbf{5}$ fairly carefully? Yes, I went through them very carefully. 6 Α. 7 Ο. Was there a measurement of one sontometer in the neck in March? 8 There was a measurement. I don't know if we 9 Α., are talking about the same lesion. 10 Well, how many lesions did he have in the 11 Q. neck between March and August? 12 Well, I think there were at least three in 13 Α. there that are being referred to at different times. 14 In August there were three or was there one? 15 0. 16 Α. No. No. In August there was one. 17 Right. And how many were there in March? Q . MR. MARMAROS: Let's look at Katz' 18 19 records, again, I guess. There is a measurement of one in March. How 20 Α. many were there in March? I don't know. 21 22 (BY MR. KAMPINSKI): Well, how big was the Q . one in March? 23 Three and a half sontometer lesion. 24 Α. That is

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 the one that I referred to earlier. Is that the one 2 you're talking about? З In March. No, sir. In the neck. In the 0. That's the fourth time I said it. A neck. 5I'd have to go ---Α. MR. MARMAROS: Do you have the 6 7 record handy to save time, the one you're referring to? 8 9 I would have to find out what you're Α. 10 referring to. 11 MR. MARMAROS: I think it's 12 possibly in Katz' or in radiation therapy. 13 MR. KAMPINSKI: He is the one that 14 reviewed the records. MR. MARMAROS: You're the one 15 16 that's got to make the plane. 17 MR. KAMPINSKI: I'm in no hurry. 18 I'll catch a plane tomorrow. 19 MR. MARMAROS: Okay. Fine. Let's 20 go to radiation therapy. You're saying the records reflect 2.1that there was a node in the neck in March? 22 23 MR. KAMPINSKI: I don't know. 24 MR. MARMAROS: Well, I don't

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remember seeing that.

(BY MR. KAMPINSKI): Is it your testimony 2 Ο. 3 that there was no node in the neck in March of 1988, 4 Doctor, from your careful review of the records? I 5 mean, it's not set forth in your report. 6 A. I do not recall a node being measured in the 7 neck in March of '88. Okay. When was the first time that there 8 Q. was any measurement of nodes in the neck, since that's 9 10 what you're using? 11 Α. In August, I believe, of '88. Okay. So that we don't have any measurement 12 Q. before that that we can compare it to for purposes of 13 determining doubling times? 14 That's what I said half an hour ago. 15 Α. I just like to be thorough, sir. 16 Q . 17 Α. Yeah. In your report of December 27th, 1990, do 18 Ο. 19 you have that in front of you, sir? It's around here somewhere. 20 Α. 21 Yeah. Q. 22 Α. Yes, sir. In the last paragraph on the first page, do 23 Ο. 24 you see that?

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING 1 Α. Yes. 2 Q., You say that the patient had neck metastatic 3 disease in April of '88. Is that also a mistake? 4 MR. MARMAROS: Objection. 5 What I'm referring to there is that because Α. he later had metastatic disease in the neck that he 6 7 had metastatic disease at that time. 8 (BY MR. KAMPINSKI): So, this was by your Q. 9 process of applying your theory logically? 10 Α. My process of reasoning. 11 Q. Okay. Did you send Mr. Marmaros various publications as it related to doubling time? 12 13 Yes. Α. What did you send him? 14 Ο. I don't -- I'd have to go find out what I 15 Α. 16 sent him. Where would you have to go to find that out? 17 Q., 18 Α. From him. Well, why don't you find out? 19 Q . MR. MARMAROS: Pardon me? 2.0What did I send you whenever I sent it to 21 Α. 22 you? 23 MR. MARMAROS: We have been through this. I asked for some information on 24

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI EXAMINING doubling times for some education purposes. I mean, I 1 don't have the articles with me. 2 (BY MR. KAMPINSKI): I want to know what you 3 Ο. 4 sent him. 5Ask him. Α. I'm asking you. You're the deponent. 6 Q. 7 I don't have them here before me. Α. Ο. Those are in the library, too? 8 Yes. I took articles out of my stack of 3 Α. articles and made copies of them. 10 MR. KAMPINSKI: That's all I have. 11 Anybody else? 12 MR. BONEZZI: Um-hmm. 13 Pat, do you have questions? 14 MR. KAMPINSKI: Do you have any? 15 MR. MURPHY: I do. I'm waiting. 16 When you're ready. 17 18 Okay. Α. EXAMINATION BY MR. MURPHY: 19 20 Q. Okay. Dr. Burrows, if a patient has a 21 lesion on his tongue, the lesion is biopsied, reported back as pseudoepitheliomatous hyperplasia with some 22 reactive atypia. And assume there are inflammatory 23 24 changes at the margin of the biopsy site. The patient

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is then followed over a period of approximately five 1 months by the clinician who did the biopsy, who 2 3 clinically makes a judgment, comes to a determination 4 at the time that the site of the biopsy has healed. 5 There have been no recurrences, no breakdown. Tells 6 the patient just that. That we had this diagnosis of 7 a benign lesion. I followed you. Now, I see no 8 recurrence, no breakdown. Indicates: There is 9 nothing more that I can do for you at this point and 10 time. But tells the patient: If anything redurs, if 11 you have any additional problems with this tongue of 12 any nature, pick up the phone and call me or come back 13 and see me. As medicine is practiced in this 14 15 country, do you believe an adult patient would have an 16 obligation to get back with that physician if there is 17 any change in the status of his tongue. MR. KAMPINSKI: Objection. 18

A. I would certainly think so.

Q. (BY MR, MURPHY): You made a comment or an answer in response to one of Mr. Kampinski's questions that it is your opinion that the malignant tumor found in March of '88 was present in some form back in 1986 at the time of the initial biopsy and probably

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. MURPHY EXAMINING predated that by several years, I believe was your 1 2 opinion? 3 Α. Yes. 4 MR. KAMPINSKI: I'm sorry. Could 5 you read that back? (Whereupon the requested 6 portion of the record was 7 read by the reporter.) 8 (BY MR. MURPHY): We know from the pathology 9 Ο. records that in March of '88 it was diagnosed as a 10 poorly differentiated squamous cell carcinoma I 11 12 believe? Α. Yes. 13 My question to you, is: Do you have an 14 Ο. 15 opinion as to what form that tumor was in or what histological classification that tumor was in, in 16 17 December of 1986? Well, I am presuming that this was still a 18 Α. squamous cell carcinoma in '86. The tumor that was 19 20 found and diagnosed in '88, I think, is the same tumor that is tracked back. 21 22 Let me ask a dumb guestion, perhaps: When Ο. 23 one speaks of carcinoma in situ ---24 Α. Yes.

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1 Ο. --- in a tongue, let's talk about that 2 generally. You said before, that's still frank З malignancy but it's the location where it is and its 4 potential that gives it the classification for in 5situ, I believe? Α. Yes. 6 7 Can carcinoma in situ be squamous cell Ő. carcinoma or by definition are they at odds with one 8 9 another? 10 No. It is a squamous cell carcinoma. Α. 11 Ø. Okay. 12 I mean, in this situation in the mouth at A . 13 this location the squamous cell is -- well, it could be -- I'm sorry. Let me -- it could also be 14 15 adenocarcinoma in this location. Rarely you'll have a 16 glandular component in situ. But for the most part, 17 yes, it's going to be a squamous cell carcinoma that 18 is in the process of evolving. Q. Can you give me your definition, if you 19 20 will, of a squamous cell or -- strike that. 21 Of a carcinoma in situ on the 22 tongue? What does that mean, to call it a carcinoma 23 in situ? 24 It is simply a carcinoma that has yet to Α.

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1	invade the basement membrane and is still in the
5	epithelium where it originated.
3	Q. You also responded to Mr. Kampinski that you
4	presume the tumor was clinically observable between
5	December of 1986 and August of 1987. Is the basis for
6	that presumption of yours your doubling time concept
7	that we have been talking about, here, today?
8	A. Yes.
9	MR. MARMAROS: Objection to
10	concept, as well, but go ahead.
11	Q. (BY MR. MURPHY): Let me re-ask the
12	question.
13	You have stated that you presume
14	the tumor was clinically present between December of
15	'86 strike that.
16	You have stated that you presumed
17	the tumor was clinically observable between December
18	of 1986 and August of 1987. Your opinion for it being
19	clinically observable during that time frame is based
20	upon your opinions of doubling time for head and neck
21	cancer?
55	A. Yes.
53	Q. It is not based upon, obviously, any
24	clinical observations that you made, to state the

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. MURPHY EXAMINING 1 obvious ---2 Α. No. 3 -- is that correct? Ø. 4 Α. NO.  $\overline{5}$ Q. It is not based upon any of the records or 6 the deposition testimony that you have reviewed? 7 Α. No. 8 Ο. What do you understand what the term field cancerization means? 9 10 MR. BONEZZI: FIELD. It's a new term to me. 11 Α. (BY MR. MURPHY): Do I understand that even 12 Q. 13 within the concept of doubling time -- I can't think of a better term. 14 15 Α. Okay. 16 Within the concept of doubling time, that at Q. 17 any given point and time within your parameters, the growth rate will not be constant? Sometimes it will 18 be growing faster and sometimes it will be growing 19 20 slower? It has been seen to do so and presumed to do 2.1Δ., 22 so. 23 When you testified about staging before, did Q. 24 you say that you use a staging principle to plan

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. MURPHY EXAMINING treatment for patients, in part, that's one --1 Δ. Yes. 2 3 Ο. Is it used, as well, to prognosticate for patients? 4 5 Α. Yes. Do you use tumor grading at all for either 6 0. treatment plans or for prognostic purposes? 7 Α. Yes, for both. 8 Are you familiar with a descriptive term for 9 Q. 10 histologic grading of anaplasty? Yes. 11 Α. What does that mean to you? 12 Ο. It's a situation where the cells are what 13 Α. you would refer to as bizarre or in a misshapen form 14 and they have less resemblance to normal tissue. It's 15 a poorly differentiated type of cancer and it mixes 16 17 with the surrounding stroma. It's a term used by pathologists, a descriptive term, of a pattern of 18 growth and a type of cell. 19 An anaplastic tumor would carry with it a 20 Q. graver prognosis than a well-differentiated tumor? 21 22 Α. Usually. 23 From your report, going back --- I'm going to Q. have to repeat some of this, unfortunately. But, from 24

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your report of a five sontometer lesion found in the 1 2 neck in August of '88, you expressed the opinion that 3 it would take at least anywhere from two to five years to develop; is that correct? A 5 Α. Yes. 6 Q . If we go back two to five years from that 7 point and time, then, in your opinion, that tumor in 8 the neck, that node would have been present at least since August of '83 until August of '86, in that 9 10 range? 11 Α. In that range. It's fair to say, is it not, that you do not 12 Q. 13 know what Mr. Yafanero's tongue looked like on May 2, 1987, when he last saw Dr. Alperin? 14 15 I do not know what it looked like. Δ. MR. MURPHY: That's all I have. 16 EXAMINATION BY MR. BONEZZI: 17 18 Dr. Burrows, my name is Bonezzi. I happen Ő. 1.9to represent Dr. Simms. You have indicated to Mr. Murphy that you are not familiar with the term field 20 21 cancerization? 22 No. Α. 23 That is correct? Ο. 24 Α. I am not familiar with the term.

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1	Q. Even though you might not be familiar with
5	the term, have you ever seen it in any reported
з	literature as same relates to oral carcinomas and
4	specifically carcinomas of the tongue?
5	A. I don't recall seeing it, no.
6	Q. Okay. Are you familiar with the progression
7	or growth rates pertaining to an in situ lesion and
8	how long it takes to progress to a frank carcinoma or
9	that which is invading the basement membrane?
10	A. Nobody knows that actually.
11	Q. Pardon?
12	A. That is an unknown quantity. We don't know
13	how long. We don't know how long these processes take
14	to go from in situ to invasive.
15	Q. Is the strike that.
16	Have you read any articles, not
17	for this case but in general, pertaining to growth
18	rates of in situ lesions of the breast versus the
19	tongue?
20	A. Yes.
21	Q. And whether or not the growth rates are
55	similar or dissimilar?
23	A. I wouldn't equate it to breast. We see this
24	in the cervix a great deal where it is quite similar,

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1	where it begins as squamous cell and where, in fact,
2	they have tracked these. And this process of in situ
З	is also found in the bladder, incidentally, and will
4	be followed for as long as five or ten years with in
ы	situ lesions before they become invasive. I treat a
6	lot of bladder cancers for in situ bladder cancer and
7	I will treat them off and on for five years. Same
8	thing with carcinoma of the cervix. Again, they say
9	specifically for the tongue, the similarity is the
10	same squamous tissue but different locations. I think
11	it's a general question.
12	Q. It is.
13	A. And therefore the general answer is that it
14	can be a delayed, prolonged, protracted process, but
15	you cannot specifically say how long it's going to
16	take in any one patient.
17	MR. KAMPINSKI: What was that
18	question? From in situ to invasive?
19	A. Yes.
20	MR. BONEZZI: Correct.
21	MR. KAMPINSKI: I apologize for
22	interrupting.
23	Q. (BY MR. BONEZZI): Would you also take into
24	
1	consideration the host response of an individual in

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the determination of growth rates? 1 2 Α, We would take it into consideration. Again, 3 we can't quantitate it. Okay. Do you conform to the metastatic 4 Ő. 5theory that metastasis occurs as a result of 6 hemogenous transmission or do you accept lymphatic 7 transmission or do you accept both? 8 Α. It's absolutely both. Now, what is the significance of a finding 9 Q. 10 of leukoplakia of the tongue? Most people, most pathologists, most 11 Α. clinicians consider it a pre-cancer lesion. It's an 12 13 area that is going to evolve into a cancer. lt's 14 injury of the tissue and response to injury and chronic injury. It is seen, for instance, in pipe and 15 16 cigar smokers, mostly; people with poor oral hygiene; 17 alcoholics, for the most part. It's usually a sign of chronic irritation that is evolving into a cancerous 1.819 lesion. 20 Doctor, what is your definition of an acute Q . 21 process involving leukoplakia? 22 An acute process? Α. Um-hmm. In other words, what are the 23 Ο, 24 parameters of time, by definition, of an acute

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leukoplakia? And you can use chronic leukoplakia as a 1 2 baseline, if you will? 3 Well, I think if I understand your guestion, Α. 4 what might be a more acute cause of leukoplakia. 5 0. Not cause. I'm not concerned with cause, 6 yet. I'm only concerned with what the definition, 7 from a time parameter, is, relative to an acute 8 leukoplakia. In other words, how long does it exist to qualify for acute? 9 10 Α. I can't give you a time on that. I'm sorry. 11 Okay. How about chronic? Q. 12 Again, I cannot give you a time. Chronic, Α. as I have said earlier, these lesions can be seen for 13 14 years. 15 Are you familiar with whether or not an Ο. individual is at higher risk for malignancy where that 16 17 individual has an acute leukoplakia? To my knowledge, yes. They are at higher 18 Α. risk. It is -- again, it is a more rapidly evolving 19 20 process. more inflammation involved in acute 21 leukoplakia. Now, it is your belief, is it not, that 22 Q. 23 there were not two separate distinct lesions involved 24 or involving Mr. Yafanero's tongue?

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1	Q. (BY MR. BONEZZI): They were contiguous?
2	A. I don't know if they were necessarily
ю	contiguous. They were described in the same location.
4	Q. Okay. Are you familiar with the modality of
5	treatment for an in situ carcinoma of the tongue that
6	is less than one centimeter in its greatest dimension?
7	A. I think that's very much dependent upon the
8	surgeon's experience. For most people it's going to
9	be a wide excision, leaving a certain margin. That
10	margin has to be determined, in part, by the location
11	and what you have to deal with. But I think most oral
12	surgeons are going to leave a sontometer margin around
13	an area. But, again, I think that has to be dealt
14	with by the oral surgeon at that time. They prefer to
15	leave a distinct margin but they can't always because
16	of location.
17	Q. When you speak of margin, are you referring
18	to what is called a clear or clean margin?
19	A. Yes.
20	Q. Would you agree with me that when one speaks
21	of and I am speaking of one being a physician,
22	speaks of clear or clean margin that they are
23	referring specifically to the fact that the margin is
24	clear or clean of a malignancy and not necessarily to

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atypical cells or inflammatory cells? 1 2 MR. KAMPINSKI: Objection. (BY MR. BONEZZI): You may answer, Doctor. З Q. The pathologist, I think, has to state what 4 Α. 5 he is describing. If he is describing it clear of cancer or clear of whatever. A clear margin is clear 6 of what? I don't know what he is describing. I have 7 8 to know in his preceding description what he is talking about. If he is talking about malignant cells 9 and then says the margin is clear, I'm assuming that 10 margin is clear of malignant cells. If he is speaking 11 of atypia, I presume he is speaking of it being clear 12 of atypia. If he doesn't so state, then, I have to 13 14 make an assumption on what he is implying. You read and reviewed Dr. Meckler's records, 15 Ο. did you not? 16 I did read them, yes. 17 Α. And Dr. Landsman and Dr. Alperin and Dr. 18 0. 19 Simms? 20 Α. Yes. 21Q . Prior to Dr. Landsman's finding, did you review anything in Dr. Alperin's or Dr. Meckler's 22 23 records as to leukoplakia? 24 I'm not sure who they were. Α.

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1	Q. The dentists who saw Mr. Yafanero prior to
2	referring him to Dr. Alperin in December of 1986?
3	A. I would have to go back and refresh my
4	memory on who was describing leukoplakia.
5	Q. Do you recall, as you sit here, reviewing
6	Dr. Alperin's records specifically such that you are
7	able to recall whether or not leukoplakia was
8	mentioned?
9	A. I cannot specifically say so. I'd have to
10	go back and review it to tell you that.
11	Q. Are you aware of whether or not there is
12	more than one record that describes leukoplakia? And
13	what I mean by more than one record, I'm speaking of a
14	record generated by a physician?
15	A. I cannot answer that right now.
16	Q. Have you had the opportunity to review the
17	slides that were generated relative to the biopsy
18	taken on December 12th, 1986?
19	A. No.
20	MR. BONEZZI: Okay. That's all.
21	Thank you, sir.
22	MR. KAMPINSKI: Just a couple
23	follow-ups, Doctor, and I'll get out of your hair.
24	REEXAMINATION BY MR. KAMPINSKI:

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1	Q. There is no evidence, is there, from
2	anything you have reviewed or anything that you have
3	seen in this case of anything other than one
4	continuous lesion that was observed in December of
5	'86, seen again by Dr. Landsman in August of '86 and
6	then ultimately seen in March of I'm sorry. '87.
7	August of '87. And then ultimately seen in March of
8	'88 by Dr. Katz. Would that be a fair statement?
9	A. I think so. That's a fair statement.
10	Q. Okay. So, there is no evidence of any
11	second lesion on the tongue, is there?
12	A. No.
13	Q. Do you, yourself, do biopsies, Doctor?
14	A. Rarely.
15	Q. Okay. I take it, and you mentioned before,
16	that you did pathology as a student or resident?
17	A. No. No. In my Fellowships I did animal
18	research in pathology.
19	Q. I see. Do you have occasion to submit
20	samples to pathologists?
21	A. Frequently.
22	Q. And do you instruct them, when you do that,
23	what it is you want them to look for? For example,
24	would a typical instruction be: Rule out dysplasia,

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carcinoma in situ, et cetera?

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A. Normally I wouldn't. They would tell me off. I tell them what I am seeing and what I have done and let them tell me what is there. I don't tell them what I want them to see.

Q. Well, no. I didn't mean to suggest that you tell them what you want them to see. But what I was suggesting, was: If the clinician suggests that he wants something ruled out, is it then the obligation of the pathologist to rule out those entities that the clinician has requested him to rule out? I'm not suggesting that's all he should do, you know. If he finds something else,

14 obviously, he would, you know, presumably tell about 15 it. But if he is given that job, isn't that his 16 function and purpose to follow the clinician's 17 requests?

A. Well, it's his function to follow the
clinician's request but it's very generic. A
pathologist has a specific job. He has to look at
tissue and, in my opinion, describe what he sees on
it.

Q. If he comes back, let's say the request is to rule out dysplasia and carcinoma in situ, et cetera

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1	and et cetera obviously could be a number of
2	things. If he comes back and says that he has ruled
3	that out but then describes other findings, can you,
4	as a clinician, rely on him in terms of his having
5	viewed the entire sample that you sent him?
6	A. I have to rely on him.
7	Q. And, in fact, you do?
8	A. He's it.
9	Q. Right. And you assume that if there is
10	something on that slide, that sample that you sent
11	him, he's going to see it?
12	A. I hope he does.
13	MR. KAMPINSKI: Okay. That's all.
14	MR. BONEZZI: Just a couple more.
15	REEXAMINATION BY MR. BONEZZI:
16	Q. Doctor, in squamous cell carcinoma of the
17	tongue, can you tell me whether or not the growth of
18	the lesion in question on the tongue grows laterally
19	or does it grow both laterally and in depth?
20	A. It can grow either way. There is no
21	absolute on that. It may grow in whatever planes. In
22	whatever location it is, it's going to follow certain
23	pathways as it begins to invade. And so there is no
24	answer to that question. It can go whatever way it

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1 wants. It can go hemogenously, lymphatically, along 2 planes. There are variations. It's not one prescribed pattern of growth for all squamous cell 3 cancers of the tongue. 4 5 So, in other words, depending upon the plane Ο. that the growth occurs on will basically dictate 6 whether or not the growth progression or movement will mi T be lateral or by way of depth or both? 8 9 In part, yes. Α. 10 Okay. Now, let me ask you the same question Q. 11 and refer it specifically to CIS. Is the growth rate 12 the same? A CIS must start by invading. To become 13 Α. more than a CIS it must invade through the basement 14 15 membrane at some point. 16 Okay. Now, when we are dealing with the Ο. 17 tongue and we are dealing with CIS, first of all, there is an invasion of the epithelium of the tongue; 18 19 is that correct? 20 Α. Yes. 21 Ο. Prior to the time that there is an invasion 22 of the basement membrane, is the growth pattern of CIS of the epithelium, lateral, or, does it go down? 23 24 It is presumably initially lateral because Α.

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1	we see CIS over an area. We see it frequently over a
2	placque-like distribution. And so we have it
3	removed. CIS is from areas where, in fact, there is a
4	sontometer area involved with this with no invasion
5	and it's still CIS. So, in that situation, at least
6	what you have is one that has either had multicentric
7	growth or it spreads laterally before it has invaded.
8	Q. Are you aware of whether or not the growth
9	was multicentric in this case?
10	A. I am not.
11	MR. BONEZZI: I have nothing
12	further.
13	MR. KAMPINSKI: Do you have
14	anything?
15	MR. MURPHY: I have a couple,
16	yeah.
17	MR. KAMPINSKI: I don't have any
18	more questions. I just wanted to deal with his
19	records.
20	REEXAMINATION BY MR. MURPHY:
21	Q. In response to one of Mr. Bonezzi's
22	questions, vis-a-vis the location of the lesion in
23	December of '86 and the location of the leukoplakiac
24	finding that Dr. Landsman made in August of '87, you

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Ţ	said they were described in the same location. But as
2	you were talking to him about that question, I got the
3	impression, and if I'm wrong correct me, that you're
4	saying they were described in the same location but
5	you can't say they were precisely at the same spot?
6	In other words, the left lateral side of the tongue is
7	enough area where there could have been two different
8	locations for those two lesions?
9	A. Yes.
10	MR. MARMAROS: Objection. Go
11	ahead.
12	Q. (BY MR. MURPHY): I didn't hear the full
13	answer before, but you said something about margins
14	and something about an oral surgeon. You're not
15	giving any opinions in this case about the amount of
16	margins an oral surgeon should take when biopsying the
17	type of lesion that Mr. Yafanero had?
18	A. No, I am not going to address the surgeon.
19	MR. MURPHY: I didn't think you
20	were. I didn't hear the whole answer.
21	Go ahead.
22	REEXAMINATION BY MR. KAMPINSKI:
23	Q. I would request that I be provided
24	immediately, in light of the trial date of Monday and
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we are here on Thursday, of any and all references, 1 Doctor, that you believe somehow supports the growth 2 rate that you have set forth in terms of the doubling 3 time of tongue cancer. A You have indicated there are 5numerous articles. You say you have to go find them. 6 7 Apparently, you have looked at them at some point because they were referenced in your report. I would 8 like them and I would like them as quickly as you can 9 10 get them ---Okay. 11 Α. 12 Q . -- to me. 13 I will. Α. MR. KAMPINSKI: Additionally, I 14 15 would like a copy, Mr. Marmaros, of all of the correspondence contained in the doctor's file and, you 16 know. I'll leave that up to you. I mean, you can give 17 18 it to the court reporter and she can copy it and attach it to the transcript and give the original back 19 20 to the doctor, or, you can take it. MR. MARMAROS: I think it would be 21a lot easier for me to walk it across the street to 22 23 vou. 24 MR. KAMPINSKI: Then you can walk

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it across the street and then give it back to the doctor.

A. Can I give it to you in the form of a bibliography?

(BY MR. KAMPINSKI): Let me tell you what I 5Ο. don't want, Doctor. I don't want you to give me a 6 7 bibliography of a hundred references, okay, that maybe 8 one of which deals with this specific issue, because, 9 as you can well appreciate, between now and Monday I can't research a hundred different publications. 10 What 11 I am asking for is what articles specifically you are suggesting support your hypothesis in terms of a 12 growth rate between 50 to hundred day doubling time 13 14 for tongue cancer. Okav. 15 A. 16 MR. MARMAROS: You're asking for 17 representative articles? I mean, you don't want a 18 bunch of articles? 19 MR. KAMPINSKI: If there are a hundred that deal with that issue, I'll take the 20 21 hundred that deal with that. Sure. MR. MARMAROS: Well, like you have 22 23 until Monday he only has until Monday, too. 24 MR. KAMPINSKI: No. No. You're

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wrong. Because he has had not only his entire career, 1 2 which he has alluded to, but he has had all the time necessary prior to preparing his report, presumably, 3 to look at things which he did mention and is A 5referenced in his report. I'm only asking for the things 6 7 that you relied upon for purposes of preparing your report, as you have described in your report. And I 8 don't think that's an unfair request. And if I can 9 10 have them tomorrow, that's when I'd like them. MR. MARMAROS: Since we are on the 11 12 record, Chuck, will your expert give me the same 13 courtesy? MR. KAMPINSKI: You asked my 14 15 expert about that. I think he gave you the article. MR. MARMAROS: No. Your expert 16 said he didn't have to do my research for me and that 17 18 I should go to the library, myself. 19 MR. KAMPINSKI: Who was that? 20MR. MARMAROS: Dr. Brenner. MR. KAMPINSKI: There was nothing 21 22 that he was relying on. 23 MR. MARMAROS: He told me that it 24 was in any journal. I said: Can you tell me which

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI REEXAMINING 1 Journal? 2 MR. KAMPINSKI: Tell me where 3 there is something in his report where it says that he 4 relied on articles? This doctor refers to it in his 5report. I am asking for it and I have asked for it. MR. MARMAROS: I don't see any 6 77 term in his report that says that. 8 MR. KAMPINSKI: This is not a 9 I asked for this both in the request for game. production --10 So did I. 11 MR. MARMAROS: MR. KAMPINSKI: You asked for 12 13 Engelberg's report and you got it. MR. MARMAROS: I didn't get it 14 from Engelberg. 15 16 We don't want to take this time ---MR. KAMPINSKI: You said you 17 18 wanted to state this while we were on the record. MR. MARMAROS: I asked in the 1.920 request for production, Dr. Engelberg's ---2.1MR. KAMPINSKI: Didn't he give you 22 one article when you were out there taking the deposition? Didn't he --23 MR. MARMAROS: No offense, the 24

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR, KAMPINSKI REEXAMINING request was due a month before we went out there. We 1 2 went through his file and found the article. I found that and he --3 MR. KAMPINSKI: When did you A 5respond to my request? MR. MARMAROS: I didn't see 6 anything in Dr. Burrows' report that says that he 7 8 relied on ---MR. KAMPINSKI: When did you 9 10 respond to my request? 11 MR. MARMAROS: I wrote you a letter, or, I talked to you on the phone. 12 MR. KAMPINSKI: You didn't respond 13 14 to ...... MR. MARMAROS: I talked to you on 15 16 the phone. 17 I don't see, in his report, where 18 he says that he relied on articles in preparation of his report. Maybe I'm stupid, but ---19 MR. MURPHY: Let me ask one 20 21 question while they are reviewing that. REEXAMINATION BY MR. MURPHY: 22 23 In respect to the lesion that was present Q. and clinically observed in December of 1986, if the 24

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1 pathology slides that were prepared from the tissue 2 submitted revealed that the entire lesion or ulcer 3 that was present at that time was removed and had 4 clean margins around it, would you agree that the 5 lesion observed by Dr. Landsman in August of '87 was a 6 different lesion? 7 Α. Yes. 8 MR. MURPHY: Okay. I'm finished. REEXAMINATION BY MR. KAMPINSKI: 9 10 But based on your theory, obviously, it Q. 11 wasn't all removed, it couldn't have been all removed because it still wouldn't have been there: correct? 1213 Α. If there were two different lesions, then 14 we're talking about one that was removed and one that wasn't. 15 Assuming that that would be the -- say the 16 Ο. 17 one that wasn't, that would have been observable based 18 upon your theory; correct? 19 Α. Yes. And just so the record is clear, in your 20 Ο. 21 report, Doctor, you say: Using standard evaluations of growth kinetics, doubling times and the biology of 22 23 these tumors, those standard evaluations are contained 24 in these articles, are they not?

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Yes. And I'll tell you that I did not 1 Α. research a single article for this preparation. I did 2 not go and look up anything for the purpose of this 3 4 case. MR. MARMAROS: That's what I have 5 been telling you. 6 7 I can go back and research the literature Α. 8 and I can use the articles that I have accumulated, but I have not a single book or article that I used 9 specifically for this case. I don't do it for any 10 case. I use my knowledge of it. 11 Q. (BY MR. KAMPINSKI): But the standard 12 13 evaluations that you refer to in your report are standard evaluations from various texts? 14 15 Å. I'll send you what I used, to know about this, which is about hundreds ---16 They don't specifically refer, then, to head 17 Ο. 18 and neck --Some do and some actually refute this. And 19 Α. 20 it's a compilation and distillation of this 21 information. 22 Ο. All right. You send me what you've got and 23 I'll work hard, later. 24 I'll send you a bibliography. Α.

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JOHN H. BURROWS, M.D., MARCH 21, 1991 MR. KAMPINSKI REEXAMINING MR. MARMAROS: Send it to me, 1 2 please. 3 (Deposition concluded) CERTIFICATE OF NOTARY 4 5 6 7 STATE OF MICHIGAN ) 8 ) SS COUNTY OF MACOMB 9 ) 10 11 I, Debra M. Chrostowski, Certified Shorthand Reporter, RPR and Notary Public in 12 and for the County of Macomb, State of Michigan, do 13 14 hereby certify that the deposition of JOHN H. BURROWS, 15 M. D., was taken before me on the 21st day of March, 1991, at the time and place hereinbefore set forth; 16 that the witness was by me first duly sworn to testify 17 to the truth, the whole truth, and nothing but the 18 19 truth, that thereupon the foregoing questions asked 20 and the foregoing answers were made by the witness 21 which were duly recorded by me stenographically and 22 later reduced to computer transcription under my 23 personal supervision; and I do further certify that 24 this is a true, full and correct transcript of my

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JOHN H. BURROWS, M.D., MARCH 21, 1991

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I do further certify that the signature to and the reading of the deposition by the witness was not requested by counsel for the respective parties hereto; also, that I am not related to, nor of counsel to either party nor interested in the event of this cause.

Debra M. Chrostowski CSR 2035, RPR, Notary Public, Macomb County, Michigan

My Commission expires:

May 3, 1992

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