In The Matter Of:

April Awkward, et al. v. Jerome I. Snyder, M.D., et al.

Ronald Alan Sacher, B.Sc. Vol. 1, June 8, 2001 p. 1-84

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			Page 1			Page 4
• •	APRIL AWKWARD, et al., Plaintiffs					Page 4
[2] (3)	VS.) CIRCUIT COURT) FOR		[1]	PROCEEDINGS	
[4]) BALTIMORE CITY		[2]		
[5]	JEROME I. SNYDER, M.D., et al.,) CAS			[3]	Whereupon	
[6]	Defendants.) 24-C-00-004585		[4]	RONALD ALAN SACHER, M.D.	
[7] [8]	The Deposition of RONALD ALAN S	SACHER		1	a Witness, called for examination, having been	
	B.Sc. was taken on Friday, June 8, 2001				с С	
[10]	commencing at 3:19 p.m., at the offices of)I		i i	first duly sworn, was examined and testified as	
[11]	Epstein, Becker & Green, P.C., Suite 700			[7]	follows:	
[12] [13]	25th Street, N.W., Washington, D.C., bef Gomez, Registered Professional Reporte			(8)	MS. JONES: Sharon, just let me tell	
[14]	Public in and for the District of Columbia.	•		[9]	you we're going to limit him to causation,	
[15]				[10]	damages, and life expectancy.	
[16]		OTEDS INC		[11]	MS. CHRISTIE: Okay. Well that takes	
[17] [18]	RIGLER & O'NEILL COURT REPO 201 North Charles Street	NIENO, INU.		1	out a whole bunch of questions.	
[19]	Suite 800			{	*	
[20]	Baltimore, Maryland 21201			[13]	EXAMINATION	
[21]	(410) 659-0249			{14}	BY MS. CHRISTIE:	
			Page 2	[15]	Q: Dr. Sacher, I apologize for	
[1] [2]	APPEARANCES			[16]	mispronouncing your name when we first met. My	
	On behalf of the PLAINTIFFS:			[17]	name is Sharon Christie. I represent the	
[4]	SPENCE, KOHLER & CHRISTIE,	P.A.		[18]	plaintiffs in this case. I'll be asking most of	
(5) (6)	By: Sharon A. Christie, Esquire 401 Washington Avenue			1	the questions today.	
(6) (7)	Suite 701			[20]	If at any time you don't understand	
[8]	Towson, Maryland 21204					
[9]	(410) 823-8200			[21]	my question, please tell me. I will be happy to	
[10] [11]						Page 5
	On behalf of the DEFENDANT JEROME	I. SNYDER, M.D.:		£11	rephrase. Please make sure that all of your	
[13]	EPSTEIN, BECKER & GREEN, P	.C.		1	answers are verbal so that the court reporter may	
[14] (15]	By: Jean Jones, Esquire David E. Manoogian, Esquire			1		
[16]	Joanna Jesperson, Esquire				take them down. And if at any time you feel that	
[17]	Suite 700			[4]	you need a break, please tell me and I'll be happy	
[18]	1227 25th Street, N.W.			[5]	to do that.All right?	
[19] [20]	Washington, D.C. 20037 (202) 861-0900			[6]	A: Yes.	
[20] [21]	(202) 301-0300			[7]	Q: Great. Would you state your full	
· · · · ·			Page 3	ខោ	name and business address, please.	
(1)	APPEARANCES			[9]	A: My name is the same as I stated	
[2]				1	earlier, Ronald Alan Sacher, and business address	
[3] [4]	On behalf of the DEFENDANT SAINT AG GOODELL, DeVRIES, LEECH & I			1		
[5]	By: Lauren H.C. Lacey, Esquire			1	is University of Cincinnati Medical Center,	
[6]	One South Street			[12]	Hoxworth Blood Center, H-o-x-w-o-r-t-h, 3130	
(7) [8]	20th Floor Baltimore, Maryland 21202			[13]	Highland Avenue, Cincinnati, Ohio 45267.	
(9)	(410) 783-4000			[14]	(Sacher Deposition Exhibit 1 was	
[10]	(Via telephone from the above add	iress)		[15]	marked for identification and was attached to the	
[11] [12]				1	transcript.)	
[13]					Q: Dr. Sacher, let me show you what	
[14]				[17]	-	
[15] [16]				Į	we've marked as Exhibit 1 which is a copy of	
[17]				[19]	curriculum vitae which Ms. Jones has provided to	
[18]				[50]	me. I ask you to take a look at that and let me	
[19] [20]				[21]	if this is the most up-to-date version.	
[21]						

Page 6	Page
A: It is, yes.	[1] training or what we would call medical school in
2 Q : Okay, Let me — if you want to hold	(2) the United States as I understand it was in South
(3) on to that, I'll ask you a few questions, and if	3] Africa. Is that correct?
4) you need to refer to it, please do. Let me start	[4] A: My medical school was in South
(5) first with the first couple of lines. There are a	[5] Africa, that is correct.
6] lot of different letters following your name. And	[6] Q : And then did you complete a residency
77 I would ask you, if you would, to please go	7 along the lines of the training in the United
^[8] through each of those designations one by one and	[8] States varying from a few years up to I suppose
^{19]} tell me what it stands for and what training was	9 seven or eight years, depending on the specialty?
required in order to obtain that designation.	(10) A: Actually, I never did a residency in
A: Certainly. The B.Sc. is a Bachelor	[11] the United States. I completed some of my
2] of Science which is equivalent to the premed	^[12] residency in Canada, although I was already
a degree in United States. I did that in physiology	[13] certified when I reached Canada, and did Canadian
4) and biochemistry in South Africa.	[14] certification. I was then attracted to Georgetown
5] The M.B.B.Ch. is Bachelor of Medicine	[15] University Medical Center where I completed part
6] Bachelor of Surgery, which is the equivalent of an	[16] of a fellowship, and subsequently my credentials
7 M.D. Again, my education was in Johannesburg,	variable in the second and the secon
8] South Africa, and this is would be the medical	[18] faculty in 1978.
n degree that is given there.	[19] Q: Okay.And the fellowship that you
F.C.A.P. is the Fellow of the College	^[10] worked on at Georgetown, what was the focus of the
1 of American Pathologists. My training initially	[21] concentration?
Page 7	Page
1) in South Africa was in pathology, although my	[1] A: That was a fellowship in hematology
a) focus was hematology, and in that capacity I have	[2] practicing as an internist, and subsequently all
n been and am a member of the College of American	[3] my clinical activities at Georgetown were in the
9 Pathologists, and for at least seven years at	[4] department of medicine or internal medicine in the
s Georgetown was chairman of the department of	[5] division of hematology and subsequently in the
a laboratory medicine as the head of clinical	[6] division of hematology and subsequently in the
pathology. I also have pathology boards.	
n F.A.S.C.P. is Fellow of American	
J Society for Clinical Pathology, which is a similar	(8) area of hematopathology. Is that right?(9) A: Yes.
organization. It is an elected fellowship to the	
College of Clinical Pathology, as was the F.C.A.P.	
e to the College of American Pathology.	
D.T.M.&H. Is Diploma in Tropical	[12] and as a hematopathologist, that is the pathology
Medicine and Hygiene. It is the equivalent of	[13] discipline that studies the tissues and diseases [14] of the tissues and organs that are involved in the
s tropical medicine board exams.	~
And F.R.C.P.C. is Fellow of the Royal	[15] manufacturing of blood cells as well as diseases
College of Physicians of Canada L completed my	[16] that affect all the blood cell and blood fluid
a training in Canada in hematology and	[17] Organs.
hematopathology and this is equivalent to those	[18] Q : All right. Now, you've listed your
n boarde	[19] current appointment from November of 2000 to the
1 O: All right Norr your medical	[20] present as professor of internal medicine at the
,	[21] university — internal medicine and pathology at

 Page 12 [1] study the natural history of perinatal Hepatitis [2] C. When I was at Georgetown and even currently [3] I'm involved with transfusion transmitted viruses [4] and the outcomes of these sorts of problems.
 [5] Q: Okay. How long were you at [6] Georgetown? [7] A: I was at Georgetown actually from [8] 1977 in end of July, beginning of August as a [9] fellow and then 1978, first of July, as an [10] assistant — excuse me, assistant professor of [11] medicine and pathology. I then got promoted from [12] 1978 to I believe it was 1989, but that's in my [13] CV, to full professor. I was tenured in 1983 I [14] believe as an associate professor, and I became [15] department chair of laboratory medicine in 1993, [16] and left Georgetown in November of 2000. [17] Q: Okay. In your practice that you [18] referred to before that you hoped to restart in [19] Cincinnati in July, I believe you said, and you [20] hoped that it was similar to that in Georgetown,
[20] lioped that it was similar to that in Georgetown, [21] did that practice involve care of patients on an
11 Page 13
 [1] inpatient basis as well as an outpatient or no [2] outpatient, all inpatient? What kind of mix did [3] you have? [4] A: My practice from 1978 to 1993 roughly [5] involved in patient and outpatient. The inpatient [6] activities were essentially rotating on service, [7] and in the earlier years it was up to three to [8] five months a year actually being the inpatient [9] attending of record, seeing all the inpatients. [10] Also during that period we had an [11] outpatient clinic which I was also involved with. [12] So I developed quite a large outpatient base that [13] I was following, and in 1993 when I took over the [14] department of lab medicine, I mainly concentrated [15] on the outpatient practice, but as a teaching [16] attending I did inpatient teaching attending one [17] month a year. [18] Q: Okay. Was your work with the [19] patients — let me focus on the last five years [20] say, just to narrow down the time frame a little

	Dogo 14		
[1]	Page 14 work with the patients as the sole treating		Page 16
	physician, or were you working in conjunction with	[1] very large number of publications, chapters in	
	other physicians in the treatments of these	[2] books, etc. And please feel free to look through	
	patients?	[3] when I ask this question, but do any of those	
		[4] publications, whether they be for journals or for	
[5]	A: If the patient was a hematology	[5] any other purpose, either listed in your CV or	
[6]		[6] perhaps some that haven't made it to your CV, that	
[7]	broadly defined, then — and the patient was	[7] you have authored, do any of those deal with any	
[8]	admitted under our service, I was the primary	[8] of the issues that you believe are pertinent to	
	attending of record. However, clearly we also had	^[9] the opinions that you're giving in this case?	
	a consult service where we would be asked to	[10] A: Yes, in a general sense I think there	
	review patients who had a variety of blood	(11) are some that actually deal with the diagnosis of	
		[12] lymphoproliferative diseases, and I think that's	
[13]	their other diagnosis for what they were admitted.	[13] the focus obviously of the case in Mr.Awkward.	
[14]	Q: Okay. For those patients for whom	[14] Q: Okay, Could you point those out to	
(15)	you would be the primary — the attending	[15] me, please.	
[16]	physician, you mentioned broadly blood problems.	[16] A: Just before I do that, I will make a	
(1 7]	What types of diagnoses did that include?	[17] general comment about a virus that we've been	
[18]	A: Oh, the gamut of hematologic	18] Studying that causes lymphoproliferative diseases,	
[19]	problems. In fact, for the most part a lot of my	(19) and that is called the human T lymphotrophic	
[20]	practice were esoteric hematology complex cases,	[20] virus, and we have been following this — when I	
[21]	thrombosis and thrombotic predisposition, bleeding	[21] say we, colleagues of mine from around the	
	Page 15		
(11	Page 15 problems, the management of patients with		Page 17
	problems, the management of patients with	(1) country, we have an NIH grant that in fact follows	Page 17
[2]	problems, the management of patients with lymphomas and lymphoproliferative disorders and	[2] a cohort of people who are infected with this	Page 17
[2] (3]	problems, the management of patients with lymphomas and lymphoproliferative disorders and the management of patients with myeloproliferative	(2) a cohort of people who are infected with this(3) virus that can produce a lymphoproliferative	Page 17
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 (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) 	problems, the management of patients with lymphomas and lymphoproliferative disorders and the management of patients with myeloproliferative disorders and leukemias. Q : Okay. Was there any particular area in which you concentrated or specialized within the broad category of blood problems? A : I would say that although it encompassed every aspect of hematology, the majority of my patients had, in the latter part of my time at Georgetown, clotting and bleeding problems and problems in pregnancy. However, I had a very large patient population, as does any hematologist with lymphomas and lymphoproliferative disorders as well as some patients with myeloid leukemias. That tended to be more inpatient intensive, so towards the latter part of my time at Georgetown I had less in the	 [2] a cohort of people who are infected with this [3] virus that can produce a lymphoproliferative [4] disorder. But I'm not going to specifically refer [5] to those publications. [6] Q: All right. [7] A: Page 15, citation — fifth bullet [8] from the bottom starting off with Ratko, [9] R-a-t-k-o, that is an article that we published on [10] the use of immunoglobulin preparations that [11] includes individuals with chronic lymphocytic [12] leukemia and lymphoproliferative disorder who are [13] notoriously deficient in these natural antibodies. [14] And there are a couple of publications that I have [15] in this compound called IVIG, and I've given talks [16] as well on the subject of replacement therapy in [17] chronic lymphocytic leukemia and [18] lymphoproliferative disorders. 	Page 17
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 [2] [3] [4] [5] [6] [7] [8] [10] [11] [12] [13] [14] [16] [17] [18] 	problems, the management of patients with lymphomas and lymphoproliferative disorders and the management of patients with myeloproliferative disorders and leukemias. Q : Okay. Was there any particular area in which you concentrated or specialized within the broad category of blood problems? A : I would say that although it encompassed every aspect of hematology, the majority of my patients had, in the latter part of my time at Georgetown, clotting and bleeding problems and problems in pregnancy. However, I had a very large patient population, as does any hematologist with lymphomas and lymphoproliferative disorders as well as some patients with myeloid leukemias. That tended to be more inpatient intensive, so towards the latter part of my time at Georgetown I had less in the	 [2] a cohort of people who are infected with this [3] virus that can produce a lymphoproliferative [4] disorder. But I'm not going to specifically refer [5] to those publications. [6] Q: All right. [7] A: Page 15, citation — fifth bullet [8] from the bottom starting off with Ratko, [9] R-a-t-k-o, that is an article that we published on [10] the use of immunoglobulin preparations that [11] includes individuals with chronic lymphocytic [12] leukemia and lymphoproliferative disorder who are [13] notoriously deficient in these natural antibodies. [14] And there are a couple of publications that I have [15] in this compound called IVIG, and I've given talks [16] as well on the subject of replacement therapy in [17] chronic lymphocytic leukemia and [18] lymphoproliferative disorders. 	Page 17

	Page 18 Page 20
n an individual with a T-cell lymphoproliferative	(1) of the categories as well.
[2] disorder that we reported. And actually on that	(2) Q: Is that true for all of those that
[3] page second bullet from the bottom, that is where	[3] are listed, or were you referring to one in
[4] I allude to the IVIG role in bone marrow translate	[4] particular?
s malignancy in immune hematologic disorders	5 A: No. Citation four.
61 including lymphocytic leukemias and lymphocytic	[6] Q: Four, I'm sorry.
[7] lymphomas.	A: And I don't believe the attracts that
[B] Q: Okay.	[a] I've got are really any more additive than what
(a) A: The last citation under Articles on	^[9] I've gote through and I think in general that
10 page 20, before books, is a publication on a	[10] covers the broad field of lymphoproliferative
(11) disorder called macroglobulinemia. This is a	(11) diseases that I've published in.
(12) lymphoproliferative disorder of a type. It's	
(13) analogous to a lymphoma, and in these individuals	[12] Q: Okay, Thank you, Dr. Sacher, have [13] you ever been sued for medical malpractice?
(14) they make an abnormal antibody.	
(15) Q: Okay.	
(16) A: Then under Books, the book that I	[15] Q: When did you first become involved in [16] reviewing medical/legal cases as an expert?
17 authored, citation one under Books, Clinical	
[18] Interpretation of Laboratory Tests as well as its	
(19) previous edition, the tenth edition, I wrote a	(18) asked to review it as an expert was probably in
[20] fair amount on lymphoproliferative disorders in	[19] 1979. I was doing some research on platelets and [20] the immune abnormalities that platelets have. And
[21] that with regards to the diagnosis and its more	[20] the minute abiotrnances that platelets have. And [21] this was a case of an individual who had a heart
1 diagnosis than management.	Page 19 Page 21
	[1] attack after getting the swine flu vaccine. I was
n ar Andrea Vinner von	[2] approach by a plaintiff's attorney and rendered an
(3) A: Also citation two under Books I was(4) the co-author of this little manual called The	[3] opinion against the U.S. Government in terms of
(5) White Cell Manual which really evaluates diseases	at the vaccine and its probability of causing a
[6] of white blood cells which clearly includes	[5] clotting event. That was the first time.
	[6] Q : Okay. In the last five years can you
7] lymphoproliferative disorders.	[7] estimate for me on a yearly basis the number of
(8) Under Chapters, page 21, citation	[6] cases that you review?
(9) one, this is Immunohemolytic Anemias in	[9] A: It's increased in the last year or
[10] Hematologic Diseases that includes chronic	[10] two, and I would say up to about two a month.
(1) lymphocytic leukemia and lymphoma.	[11] Q: Okay. It's increased up to two a
Page 25, citation 10, this is an	[12] month now?
1131 individual who had an acute lymphoproliferative	[13] A: Yes. On an average. Some months
(14) disorder, acute lymphocytic leukemia or	[14] three; some months one.
[15] lymphoblastic leukemia that we published on	[15] Q: Sure.
16) because it had an unusual chromosomal marker, but	[16] A: But in the last five years, I would
117 it is included in that category.	[17] say probably in the order of 10 to 15 a year.
(18) Q: Okay.	[18] Q: Okay. And over the last five years
A: And then page 25 under Journal	[19] can you estimate the percent of cases you review
[20] Supplements, this is a supplement that I edited	[20] on behalf of plaintiffs versus defendants?
that includes lymphoproliferative disorders as one	(21) A: Probably in the order of 70 to 75
	•

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	Page 2	22		Page 24
[1]	percent defense.	[1]	A: I will.	
[2]	· ·	[2]	Q : Do you remember the name of the	
[3]		[3]	defense lawyer? That would have been who was	
[4]	· · · · · · · · · · · · · · · · · · ·	;	probably asking you most of the questions.	
[5]	mentioned, it sounded like your first case	[5]	· · · · · · · · · · · · ·	
[6]	involving swine flu, are there other cases that	[6]		
[7]	you reviewed on behalf of plaintiffs that you have		plaintiff or the defendant?	
[8]	given opinions favorable to the plaintiffs?	[8]	A: That I don't recall.	
[9]	A: Yes.	[9]	Q : That case that you were just	
[0]	Q : Are there cases that you have		referring to, do you recall what the nature of the	
3]	reviewed and given testimony in, either by way of		allegations were?	
2]	deposition or at trial, involving issues that are	[12]	A: Failure to diagnose a lymphoma. Or	
3]	similar to the issues in this case involving		should I say, to be more accurate, delay in the	
4}	lymphoproliferative disorders?		diagnosis of lymphoma.	
5]	A: Yes.	[15]	Q: All right.And do you recall how old	
6]	Q: How many, other than this case?		the plaintiff was at the time of the alleged delay	
7]	A: I can recall one definitely, and		in diagnosis?	
8j	there may have been others that I can't recall,	[18]	A: No, I don't. This was an individual	
9]	but I would certainly say one where I gave a	1	who had a growing mass that was never biopsied.	
oj	deposition.	[20]	Q: Okay. Can you estimate for me —	
1]	Q: Okay. Do you recall approximately		you've given me your estimate in terms of numbers	
	Page 2		you to given me your countact in terms of multipers	
11	how long ago that case was?			Page 29
2]	A: I would think about five or six years	i i	of cases that you've reviewed. Can you estimate	
	ago.		for me what percent of your professional time is	
4]	Q: Do you know where the case was	1	spent either reviewing cases or giving testimony	
	pending, what state?	Í	in deposition or at trial?	
3]	A: It was in Virginia.	(5)	A: Oh, it's less than 20 percent I would	
י, ק	Q: A Virginia case, okay. Do you	[6]	say.	
	remember the name of either the plaintiff or the	[7]	Q: Okay. On a monthly basis can you	
	defendant in that case?	1	estimate the number of depositions you give per	
-,))	A: No.		month? Again, focus on the last five years.	
1]	Q: Were you testifying on behalf of the	[10]	A: This year I believe I've given about	
2)	plaintiff or the defendant?		six or seven, but prior to that maybe at the most	
2) 3]	A: Plaintiff.		six a year.	
4]	Q: Plaintiff. And do you recall who the	[13]	Q: Okay. How about trial testimony, how	
	plaintiff's lawyer was?	[14]	often does that happen?	
6]	A: It won't come to me. I can't	[15]	A: I think that of the cases I've	
	remember.		reviewed, it's very likely that 20 to 30 percent	
	Q: Okay. If during the course of the	[17]	went to trial.	
Ŋ		[18]	Q: Okay. And you testified in those	
22	questions this afternoon, sometimes answers will	[19]	cases?	
	come to you If it comes to you plaga lot me	i		
D]	come to you. If it comes to you, please let me know.	[20]	A: Yes. Q: Okay. What are your fees for review	

	· · · · · · · · · · · · · · · · · · ·			
	Page 26			Page 28
[1] of records?		[1]	A: Oh, there was a very large list and I	
^[2] A: \$400 an 1	nour.	[2]	got records on a good number of them. Many of	
[3] Q: How abo	ut deposition?	[3]	them were settled.	
[4] A: \$500 an l	nour portal to portal with a	[4]	Q: Okay.	
[5] minimum of a	thousand.	[5]	A: I really couldn't even estimate.	
(6) Q: And trial?		[6]	More than ten.	
A: Same rate	e for trial.	[7]	Q: Okay When were you first contacted	
[8] Q: As depos	ition?	[8]	regarding the Awkward case?	
[9] A: Correct.		[9]	A: Probably just shortly before January	
[10] Q: Have you	ever reviewed a case where		the 5th of this year.	
[11] there was an u	nderlying allegation of a failure to	[[1]	Q: Okay. Do you remember who made the	
[12] diagnosis or tre	eat a septic arthritis?	[12]	contact with you?	
[13] A: No.		[13]	A: Ms. Jones.	
[14] Q: Have you	ever reviewed a case prior	[14]	Q: What were you told about the case?	
[15] to this one for	either Ms. Jones or anyone in her	[15]	A: I don't recall specifically other	
[16] law firm?			than there was an issue of septic arthritis and	
[17] A: Yes.			there was a diagnosis of a lymphoproliferative	
[18] Q: On how i	many occasions?	i	disorder made on autopsy.	
[19] A: I would s	ay probably two or three.	[19]	Q: At some point were you provided some	
[20] Q: And how	about the other attorneys		material records or any other material related to	
[21] involved in this	s case, there's a firm in Baltimore	1	the case?	
	Page 27	-		Page 29
(1) by the name of	f Goodell, DeVries, Leech, now, &	(1)	A: Yes.	
[2] Dann — it used	d to be Leech & Gray — have you	[2]	Q: And what was it that you were	
[3] ever reviewed	cases on behalf of anyone at that		provided?	
[4] firm to your kr	nowledge?	[4]	A: I was initially provided with	
(5) A: Yes, I hav	e,		material records, both relating to hospital	
(6) Q: Okay, And	t on how many occasions?	ł	admissions, Saint Agnes Hospital and subsequently	
A: Quite a n	umber of occasions, because		Union Memorial, and subsequently I was also	
(8) I was also retai	ned as an expert in		provided with records from Mr. Awkward's primary	
(9) transfusion-trai	nsmitted disease litigation and		care physician, Richard Hunt, M.D. Thereafter I	
[10] factor concent	ration for hemophiliacs, and they		was given some depositions. I also did receive	
(11) represented Ba	yer Corporation.		the complaint.	
[12] Q: Okay, Out	tside of that class of	[12]	Q: Okay. How about pathology slides,	
[13] cases, do you h	ave any idea of how many times you		have you seen any slides?	
[14] worked with th	ne Goodell firm?	[14]	A: Yes, I have.	
(15) A: Probably	about five or six.	[15]	Q: Okay.	
[16] Q: All right.	And within that	[16]	MS. CHRISTIE: Jean, did you provide	
[17] classification o	f cases involving the		the doctor with a full set of pathology slides.	
[18] hemophiliacs,	was it, and clotting factors?	[18]	MS. JONES: Yeah, at least what was	
[19] A: Yes.			represented as a full set.	
[20] Q: Do you h	ave any idea how many cases	[20]	MS. CHRISTIE: Right. That's the	
[21] that involved?			best we can do. Okay.	
		1611	ouse no can do, onay.	

Page 30		Dago 24
1) A: Excuse me.	[1] do-you-know questions first. Do you know Dr.	Page 32
[2] Q : Yes, sir.	(2) Snyder?	
[3] A: I also did receive some records from	[3] A: No.	
[4] Church Hospital, I neglected to mention.	4 Q: Do you know any of the experts? And	
[5] Q: All right. And you mentioned	[4] G let me just review the names and see if any of	
6 depositions. Can you tell me what depositions	6) these ring a bell. Dr. Sarver?	
7 have been provided to you?		
A: The deposition of David K. Sarver;		
deposition of Philip M. Buttaravoli, and also some		
of attachments to his deposition, including articles.	(9) A : No.	
1) Q: All right.	[10] Q : Dr. Buttaravoli?	
A: The deposition of Michael M. Kaufman,	[11] A : No.	
3) Jerome Ira Snyder, April C. Awkward, Desiree P.	[12] Q: Whose name I always mispronounce.	
4 Awkward, Jerome Awkward, LaTracia Awkward, And I	[13] A : No.	
s believe that covers what I was given, as well as,	[14] Q : Dr. Berg?	
of course, the slides that we noted.	[15] A : No.	
7) Q : Right, All right.	[16] Q : Dr. Remsen?	
a) A: And I did see the x-ray of the joint,	[17] A: No.	
9 of the knee.	[18] Q : Dr. Crane, Leo Crane?	
I should also mention there was a	(19) A : No.	
1] small amount or very limited records from the	[20] Q : Dr. Dr. Weisburger?	
	[21] A : No.	
Page 31 1) University of Maryland Hospital.		Page 33
2) Q : Okay.And the records that, the	[1] Q : Joel Morse, who is an economist I	
3) papers that you have in front of you, does this	12] believe?	
4 constitute your file on this matter, or are there	(3) A: No.	
	[4] Q : Do you know any of the plaintiffs in	
5) other things that you have related to this case?	[5] this case? That would be April Awkward, Desiree,	
A: No.This constitutes my file.	[6] LaTracia Awkward, or Jerome Awkward?	
7] Q: All right. And the only other thing	(7) A: No.	
b) that I see here is the curriculum vitae of Dr.	[8] Q: And did you know the decedent who was	
9) Snyder. Is that correct? A: Correct This area can also him.	9 also named Jerome Awkward?	
A: Correct. This was attached to his	[10] A: No, I did not.	
e deposition, and it somehow got out of place.	[11] Q: Doctor, let me ask you this: When	
Q: Okay. That's fine. After reviewing	(12) you were provided the records and the material to	
9) the material that you had been provided, Dr.	[13] review, were you asked to review this material to	
sacher, did you feel you had sufficient material	[14] develop an opinion with regard to any particular	
in order to form opinions in this case?	[15] area?	
A: Yes, I did.	[16] A: Yes.	
ק Q: Okay. You didn't feel like you	[17] Q: And what was that?	
needed to see anything else?	[18] A: I was asked to evaluate the degree of	
n A: No.	[19] lymphoproliferative disorder that he had, what	
Q: Okay, And I'm going to get to your	[20] type it was. I was also asked to assess the	
opinions in a minute, but let me go through the	() of parts which is the most to hope to the	

	Down 24			
(4)	Page 34 well as his potential likelihood of longevity.			Page 36
		[1	small cells.	
(2) [3]		(2	•	
.,	Q: All right. Let me take these one by	(3	•	
[4]		[4	that they are small and they have regular round	
[5]		(5	nuclei.	
[6]		[6]	Q: Okay. There have been descriptions,	
[7]		[7]	I'm sure you've seen it in the testimony in this	
[8]	A: Yes.	[8]	case, opinions given that this was in essence an	
[9]	Q: And what's your opinion in that	[9]	indolent disease, not — and I'm going to	
[10]	regard?	[10]	paraphrase, but one of the experts has testified	
[11]	A: My opinion is, and I concur with the	(11)	that in his opinion this was something that Mr.	
[12]		{12	Awkward and many persons die with, do not die	
(13)	a well-differentiated lymphocytic lymphoma, that	[13]	from. What's your opinion in that regard?	
[14]		[14]	A: That is true in a good number of	
[15]		[15]	patients with this type of lymphoma, and I might	
[16]		[16]	also mention at the start that this type of	
[17]		[17]	lymphoma can spill over into the bloodstream at	
[18]		[18	which time it's called a chronic lymphocytic	
[19]		[19]	leukemia but it's the same disease entity and same	
[20]		[20]	cells as the swelling in the lymph nodes which is	
[21]	streptococcal infection that he had, leading to	[21]	refers to as the lymphoma, "oma" meaning tumor.	
	Page 35			Page 37
[1]	the progression of the beta hemolytic step	[1]	Q: Okay, What about in Mr. Awkward's	u u
[2]	infection in his thigh.	[2]	case, do you believe that it was true that it was	
[3]	Q: How do you define well-differentiated		indolent in his particular case?	
[4]	lymphocytic lymphoma?	[4]	A: Well, the disease itself in the way	
[5]	A: There are many ways to classify	15	that it progresses for the most part implies a	
[6]	lymphomas, but perhaps I could just start off by	[6]	slow growth, and in that context is indolent. But	
[7]	simply defining what a lymphoma is.	[7]	there are several clinical stages that we refer	
[8]	Q: That's fine.	[8]	to, or degrees of disease, that have prognostic	
[9]	A: It is an unregulated growth and	[9]	implications.	
[10]	proliferation of cells of the immune system termed	[10]	Q: What are those?	
{11}	lymphocytes.	[11]	A: There actually are two different	
[12]	Q : And what does the term	[12]	classifications, but I will refer to the one term,	
<u>[</u> 13]	well-differentiated — well, what does the term	[13]	the Rai, R-a-i, classification. And by my	
(14]	"lymphocytic" add to that description of lymphoma?	[14]	estimation and review of the records as well as	
[15]	A: Lymphocytic refers to the cell	[15]	autopsy findings and Dr. Hunt's records, Mr.	
[16]	appearance or morphology and the	[16]	Awkward had at least a stage three.	
(17)	well-differentiated refers to the maturation of	[17]	Now, that staging is generally	
(18)	the cell.	[18]	referred to in the context of chronic lymphocytic	
[19]	Q: Okay. You also mentioned small cell.		leukemia, but I'm using those two terms	
[20]	What significance does that have?		synonymously because he had extensive involvement	nt
[21]	A: The mature lymphocytes are generally		of his bone marrow. And many patients, many that	

Page 40 Ivement their ect that g cords nic for a llowed by Dr. eviously
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p	Page 42
(1) what's called Howell-Jolly bodies.	- Page 44
[2] Q : And what are those?	[1] evidence of a splenic malfunction in Mr. Awkward?
 A: Those are remnants of the nuclear 	[2] A : No.
^[4] material in red blood cells that are normally	(3) Q : Let me just take a look at this. In
5 removed by the spleen, and finding them implies	[4] April of '96 I believe you've indicated in your
6) either having no spleen or a spleen that's not	(5) opinion he was also anemic at that time. Is that
7) functioning very well.	[6] COTTECT?
	$[7] \qquad \mathbf{A: Yes.}$
[8] Q: was that finding noted on any of the(9) subsequent blood studies?	[8] Q: Okay. And at that time he had a
-	g hemoglobin of 13.1 and a hematocrit of 39.2. Is
[10] A: I did not see any mention made of	[10] that right?
(11) that.	[11] A: Correct.
[12] Q: Okay.	[12] Q: Okay. Other than the anemia, are
(13) A: On the subsequent studies, but they	[13] there any other findings that in your opinion are
[14] do indicate moderate Howell-Jolly bodies, and that	[14] findings that would put Mr. Awkward in a stage
[15] Certainly is of significance.	[15] three classification as opposed to some other
[16] Q: Would you expect to see that as a	[16] level?
[17] continuing finding?	(17) A: No.That's the definition of it.
[18] A : Yes.	[18] Q: Okay.
[19] Q: If the spleen was malfunctioning in	[19] A: I did find that there was a point
[20] 90 – I believe you said '96?	[20] where his platelet count was low, but this was
[21] A: I would expect that, yes. But of	[21] preterminally and it could be explained by other
Pa	Dage 40
Pa [1] course we do know that his spleen was enlarged,	Page 43 Page 45
	Page 43 Page 45 [1] reasons. Platelets counts being low puts one into
1] course we do know that his spleen was enlarged,	Page 43 Page 45 [1] reasons. Platelets counts being low puts one into [2] a stage four.
[1] course we do know that his spleen was enlarged, [2] and enlargement of the spline actually in and of	Page 43 Page 45 [1] reasons. Platelets counts being low puts one into
 (1) course we do know that his spleen was enlarged, (2) and enlargement of the spline actually in and of (3) itself implies grade two. Subsequently with, of 	Page 43 Page 45 [1] reasons. Platelets counts being low puts one into [2] a stage four. [3] Q: Okay. That was my next question, [4] what would put someone into a stage four. Is
 (1) course we do know that his spleen was enlarged, (2) and enlargement of the spline actually in and of (3) itself implies grade two. Subsequently with, of (4) course, the anemia, this implies grade — well, 	Page 43 [1] reasons. Platelets counts being low puts one into [2] a stage four. [3] Q : Okay. That was my next question, [4] what would put someone into a stage four. Is [5] there anything other than a low platelet count?
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(1) alone, and stage zero is just simply an elevation	-	Page 48
21 of the white cell counts.	1	the Rai classification and in terms of
Q: Okay. The staging that you referred	[2] life expect	-
[4] to, what is that used for in terms of treatment of	[3] A: Yes	
15) patients?		what would that be?
A: Well, it's used primarily for	i	act, any general hematology
7] prognostication and clearly treatment, since this		that's current and up to date would refer
is an indolent disorder, for the most part it's		here are other ones termed the Binet
not a curable disorder, treatment is based on		tion, B-i-n-e-t, but I think a lot of
of clinical symptoms and rate of progression of		ericans use Rai, since he's a New Yorker.
either white blood cell counts or tissue	[y. Can you give me any examples?
2) enlargement.		any good hematology text, which I'm sure
a) Q: Okay. In terms of prognostication,		s a lot of meaning but to me, not being a
4) are you referring to life expectancy or other		gist, has no meaning at all. Are there
prognostications?		rticular that you could point me to?
 A: Life expectancy. 		l, certainly my book is good.
7] Q: Okay. What in your opinion is the		y.All right.
B) life expectancy of someone in a stage three as Mr.		e happy to refer you to that
9) Awkward was?		ever, there are many general texts of
 A: Between three and five years. 		gy. There are texts that — Williams
 q: And is that from the point of 		gy or Wintrobe that are useful resources.
	[21] They're n	ot authoritative but they're useful
	age 47	Page 49
1) diagnosis or from the point that they first go	[1] resources	
2] into a stage three?	[2] Q: Win	trobe?
a) A: That's actually an interesting	(3) A: W-i-i	n-t-r-o-b-e. There's Hoffman is
4) question to answer, because most of the time it is	(4) another o	ne. There are a good number of them.
5) on the basis of the diagnosis. But, of course, we		íght. Good.
6) don't know how long they've that that disease	[6] Now, you	mentioned in terms, I
n before. But I will, to a reasonable degree of	[7] believe in	terms of classification that you saw
n medical certainty, say that he had this disorder,		ent of the spleen, the liver and the bone
n this lymphoproliferative disorder dating back at	1	believe in Mr. Awkward's autopsy. Could
oj least to 1996.		out to me what it is you're referring to
Q: What are you relying on for your		say that involvement of the spleen, what
g determination that his life expectancy was three		involvement of the spleen and the liver
n to five years? And by that I mean in terms of any		- you mentioned a little bit about the
studies or medical literature. Is there anything	[14] bone mar	
of that nature that you rely on?		, actually I reviewed the slides
A: Yes. The medical literature speaks	[16] myself.	
		that's right. I had forgotten
η to the issue of the Rai stages, and Rai stage		
to the issue of the Rai stages, and Rai stage factor is the prognostic category based on		
	[18] about that	. Then tell me what it is you're
a factor is the prognostic category based on	[18] about that [19] relying on	

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A: Well, my answer is a combination of	[1] Q: Where did they come from?
2) the gross findings on the autopsy as performed by	 A: They come from — originally, of
3] the pathologist at the time who described enlarged	[3] course, they are produced in the bone marrow and
4] lymph nodes in the abdomen and also an enlarged	[4] then they get programmed in different sites in the
5) spleen.	[5] bone marrow or in the thymus gland, and then they
6] Q: All right.	(6) circulate in the bloodstream and then they go to
7] A: There was no description of any	^[6] chemite in the bioodstream and then they go to [7] the organs that are termed lymphatic organs. That
nicroscopic findings, although I'm sure that they	^[4] includes lymph nodes and the liver and the spleen.
9) were done since slide seem to have been taken.	· - · ·
However, on my review of the slides there was	[9] Q: Okay. Then how in Mr. Awkward's case
1) quite evident accumulations of these small	[10] did they end up in the kneecap?
2) lymphocytes with mature features in a number of	[11] A: I think this emphasizes the degree of
organs. And including, as I said, in the bone	[12] involvement that he had, and, as I've pointed out,
4) marrow, and the bone marrow site was the patella,	[13] he already had evidence of it extensively in the
5] which is very unusual. This is normally a very	[14] lymph nodes of his abdomen at a number of sites.
6) acellular or a hypocellular, meaning having very	[15] Also had involvement of his liver, had an
7) few cells, and yet there was a lymphoid aggregate	[16] enlargement of the spleen with extensive
a) in that bone marrow.	[17] involvement there. In fact, he even had some in
9 So I have no doubt that in fact	[18] his lung. And why it ended up in the kneecap I
of extensively there was involvement of the rest of	[19] think is proportional to the degree of involvement
1) the marrow, and I think I'm almost sure that the	[20] of the marrow. It's a very unusual site, and I
	[21] think it implies extensive disease.
Page	51 Page
an anemia was a consequence of that.	[1] Q : Is it — but these lymphoid
2] Q : Okay, I'm going to have to ask you,	[2] aggregates, they're not produced in the kneecap,
3] if you would, to explain in layman's terms what	(a) are they?
4) you mean when you talk about the patella and	A: No, but they in fact cede there from
5] lymphoid aggregates in the patella and what	(5) the bloodstream.
6] meaning that has.	[6] Q: Could their presence be explained in
7) A: The patella is the kneecap.	[7] any way by the type of infection that he had?
a] Q: Yes.	[3] A : No.
9 A: And normally in an adult the patella	[9] Q : Could it be explained in your opinion
of would be this kneecap. The marrow component of it	[10] in any way other than the lymphoproliferative
1) really is devoid of cells. Since the major blood	[11] disorder?
2) producing sites are in the vertebral column and	(12) A: No, not these types of cells.
3) the sternum and the ribs.	[13] Q: And you told me about the spleen, you
4] Q: Right.	[14] found evidence in the spleen?
A: Now, lymphoid aggregates implies that	[15] A : Yes.
of there are nodules, there are accumulations,	[16] Q: As well as the liver?
7) circular accumulations of collections of these	[17] A: Yes.
mature lymphoid cells or mature lymphocytes. So	[18] Q: And that was on the autopsy slides
n mature lymphoid cells or mature lymphocytes. So	 [18] Q: And that was on the autopsy slides [19] from the spleen and the liver I assume? [20] A: Yes, in conjunction with the gross

	Page 54 Page 56
11 Q: Yes. Okay. All right. Was there	(1) abnormal cells grow out of control.
2] evidence in your opinion of involvement of	[2] G . Okay,
3) other organs other than the spleen and the	e liver? A: And then they may either grow and
A: Well, I believe I indicated that I	[4] expand that area where they originated or they may
^[5] did see a tissue section from the lung, but	[5] spin out into the rest of the circulation and
[6] the most part those were the major organs	6. spread and cede to other areas.
I7 Q: Okay. And what specifically did you	[7] Q : And is there any treatment for this
[8] see in the lung?	^[8] disorder?
[9] A: A small aggregate of lymphoid cells.	[9] A: There is treatment. One can control
[10] In a site where they should normally not b	
(11) Q: What significance does that have in	(ii) cells, for example, in the blood and even in the
[12] terms of your opinion as to the progression	n of Mr. [12] marrow. One can control the rate of expansion of
(13) Awkward's disease?	[13] the lymph nodes themselves or even enlargement of
(14) A: That particular location, really very	[14] the spleen by either chemotherapy or irradiation
[15] little significance. Other than the fact that	[15] therapy. But — and indeed there are some
(16) again it's implying, but I think there's much	1 more [16] individuals who have actually been "cured" by bone
[17] compelling evidence, that it's quite widesp	pread [17] marrow transplantation. But my own personal
(13) and he had fairly extensive accumulation of	
ng abnormal lymphocytes.	[19] translate from his identical twin, it relapsed.
^[20] Q: Okay. Can you describe for me	[20] So the implication always is that these indolent
241 generally the progression of a well-differen	ntiated [21] diseases are not readily curable. They may be
() lymphocytic lymphoma of the type that Mi	Page 55 Page 57
 a) symptocycle symptomic of the type that in a) had from the beginning to end stage? 	(i) controllable to some degree, but utimately they
 A: Unfortunately it's not an arithmetic 	[2] get out of control.
 a) or natural progression as it goes from stage 	[3] Q : Okay. To what degree in your opinion
(5) to the next to the next to the next. It may	^[4] is a weil-differentiated lymphocytic lymphoma,
actually start out quite extensive and sudde	[5] stage three, as you said Mr. Awkward was in, to
 involve a number of different sites and pro- 	duce
 in other a manufact of different sites and pro- its effects. But, in general, as I implied by th 	[/] A: Again, in the aggregate — now
 A definition, this is unregulated growth of cel 	(a) Clearly GIELE are merviouals, and I personally
no) that are normally part of the immune system	s and
(i) as being part of the immune system they ci	register (10) thick with any treatment that you give to them,
in the circulatory system that involves the i	mmune
(i3) circulation. We refer to this as the lymphati	[12] treatment is given, an their blood counts
	[13] decline, and sometimes they don't respond very
(14) system.	[14] well to that. These cells are very complex and
200 Ro any branch node that's not the	[14] wento that these cens are very complex and
IS So any lymph node that's part of the	[15] they're very idiosyncratic. They are part of that
16] lymphatics can undergo enlargement and a	ny organ [15] they're very idiosyncratic. They are part of that [16] individual's immune makeup. So depending upon
146] lymphatics can undergo enlargement and a 147] system where the cells normally congregate	e can [15] they're very idiosyncratic. They are part of that [16] individual's immune makeup. So depending upon [17] which cells of this immune makeup are abnormal and
 16] lymphatics can undergo enlargement and a [17] system where the cells normally congregate [18] undergo involvement, liver and spleen bein 	InstructionIns
 [16] lymphatics can undergo enlargement and a [17] system where the cells normally congregate [18] undergo involvement, liver and spleen bein [19] of that. So, therefore, in summary, it starts of 	InstructionIns
 16] lymphatics can undergo enlargement and a [17] system where the cells normally congregate [18] undergo involvement, liver and spleen bein 	In yorgan[15] they're very idiosyncratic. They are part of thatIn yorgan[16] individual's immune makeup. So depending upone can[17] which cells of this immune makeup are abnormal anding part[18] accumulate, so you can get a variety of features.ff[19] Vasculitis could be one. Immune destruction of[20] any tissue could be another. Or immune

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[1] and proliferation of any site within that	(1) showing quite extensive diminution of normal	
[2] circulation.	^[2] natural lymphocytes. And also the adrenal gland	
(3) So it's very difficult to say, one,	(3) showing really quite extensive atrophy from the	
[4] how they can naturally progress. We do talk in	[4] steroids that were given to control the vasculitis	
[5] terms of aggregates and groups of people. And	[5] presumably. So it is difficult to dissect those	
[6] also, although using the Rai stage, and, again,	[6] two features out, because I believe that they are	
[7] this is part of the reason why there's so many	7 related.	
(8) different classifications and stages, is because	(B) Now, conceivably, if he was given	
(9) not only their appearance but their biological	9 treatment for the lymphoproliferative disorder,	
[10] behavior can be very varied. There is a type of	[10] had that been diagnosed, he may well have lived	
[11] lymphoma called a mantle cell lymphoma, which is	[11] three years. Again, my figure that I'm throwing	
[12] also part of the spectrum, that does very much	[12] out is based on best estimates of the staging	
[13] WORSE.	[13] system as well as his own idiosyncratic disease	
[14] Q: Okay, But how about in Mr. Awkward's	[13] System as wen as his own mosyneratic disease	
[15] case. Do you have an opinion as to whether his		
[16] disease at the stage in which you've testified	[15] Q : Okay. Based on your review of the [16] records did you see any clinical signs of the	
[17] that he was in at the time of his death, the		
[18] extent to which that was controllable?	[17] lymphoproliferative disorder outside of the blood	
[19] A: I think that the lymphoproliferative	[18] work that you've referred to, and the findings on	
^[20] disorder per se might have been controllable but	[19] autopsy. Prior to — I'm talking about prior to	
[21] its biological behavior was such that, as	[20] the time he went to Saint Agnes Hospital. Did you	
Page 59	[21] see any clinical signs other than the blood work	,
rage by [1] demonstrated by this galloping infection that he	(1) that we've talk about?	Page 61
[2] had, that at any time he could succumb to a		
^[3] devastating infection.	MS. JONES: Objection to the form.	
[4] Q : Okay.		
A: Whether or not that was treated.	(4) A: Clinical meaning from external	
[6] Q: Let's take away the infection for the	(5) examination?	
[7] purposes of my question. Okay. And let's assume	[6] Q: Yes.	
[8] for the purposes of this question that he did not	(7) A: No, I didn't see anything on external	
(9) develop the streptococcal, Strep A infection that	(8) examination, but clearly, as I pointed out,	
[10] he had. If he had been — if he had been	191 laboratory-wise as well as subsequent on autopsy,	
[11] diagnosed and treatment was begun, do you have an	[10] it was there.	
[12] opinion as to the degree to which his disease, his	[11] Q : Okay. What about the vasculitis, do	
(13) lymphoproliferative disease could have been	[12] you think the vasculitis was in any way connected	
(4) controlled?	(13) to the lymphoma?	
15 MS. JONES: Objection and a	[14] A: I do believe that it was, and I guess	
(16) hypothetical. Go ahead.	[15] in answering your previous question, could that	
[17] A: Without further data, I could not	[16] have been a clinical sign, I believe that more	
[18] speculate. Namely, the degree to which his natural	[17] probably than not it was. Because we had a	
-	[18] phenomenon that was presenting itself with	
nal antibody level was decreased, and I believe it		
[19] antibody level was decreased, and I believe it[20] was.Again, this is based on my review of the	[19] evidence in the laboratory of ongoing [20] inflammation, yet it seemed to be controlled by	

Page 62	
(1) diagnosis of vasculitis, the clinical features	Page 6
2) were suggested, as Dr. Hunt had indicated; and I	1) believe was all additive and allowed this process
^[3] do believe that without an explanation for the	[2] to gallop. And it clearly was. And, in fact,
[4] vasculitis that — and knowing that he had a	3) even the histology and the appearance of the
s lymphoproliferative disorder, that they were	[4] tissue, that there was no inflammatory response to
related. More probable than not.	[5] the toxin implies a, what we call a paralysis of
7 Q: You mentioned earlier, when I asked	[6] the immune system or paresis as well as the toxin
B you sometime ago about your opinions, that you had	7] itself causing tissue destruction.
	[8] Q : Do you have an opinion as to when the
9) opinions involving — regarding the involvement of	[9] infection began?
of the bone marrow and the several organ systems. I	(10) A: I know exactly when it began, but I
1) believe we've covered that. I just want to make	[11] believe that it probably was evident, was
a sure. We talked about the liver, the spleen, the	[12] certainly in his thigh on the 18th, but I don't
3] patella. Was there anything else you were	[13] know when it began.
4) referring to?	[14] Q: But you do believe it was present at
A: No, I think we covered that.	[15] the time he was seen at Saint Agnes?
G: Okay. You also said that you	[16] A: Probably.
7 believed that lymphoma played a role in the rapid	[17] Q : I take it you believe that the site
a progression of the toxic shock syndrome. Is that	[18] of infection was the thigh?
ej right?	(19) A: Yes.
$\mathbf{A}; \mathbf{Y} \mathbf{e} \mathbf{s},$	[20] Q: And what are you basing that opinion
Q: Okay, Explain to me what that	[21] ON?
Page 63	Page 6
n opinion is and what you're basing it on.	[1] A: On my review of the records, material
A: Well, toxic shock syndrome is really	[2] as well as my background, education, experience,
an aberrant immune response to the organism. And	[3] and knowledge of the immune system.
4] it involves a concept termed superantigen, antigen	[4] Q : Okay. Tell me, in terms of your
5) meaning a foreign material that comes into the	[5] knowledge of the immune system, what is it that
body that is normally handled and processed by the	[6] leads you to conclude that it was the thigh where
7) immune system.	[7] the infection started?
(9) Now, clearly the immune system and	
9 immune surveillance involves the cells of the	 [8] A: Well, clearly that is the template on [9] which I'm analyzing the medical records, and the
ရ immune system as well as mediators. His immune	[10] records show extensive involvement and tissue
a system we know not abnormal is was abnormal for	(1) destruction of the thigh and relatively little
a several reasons. One he had the	
with the provident and the second	[12] destruction or damage of the knee joint itself, or
a also clearly immunosuppressed from even that low	[13] even the cartilage of the knee joint. So I firmly
n does of steroids as determined by his advanal	[14] believe that this occurred in the thigh, and I
a gland However the uniqueness of this organism	[15] think that any fluid accumulation and involvement
7 because not everybody who get a streptopooral	[16] of the knee was secondary to the evolving toxin
⁸¹ infection develops toxic shock syndrome — the	[17] release from the thigh.
a uniqueness of this organism in producing the toxin	[18] Q : If the infection began in the thigh
w in an individual who is already exceptible and	[19] as you've testified and there was fluid collection
w compromised by a disturbed immune function I	[20] in the knee as a result of the, if I've understood
, compromote by a clotable a minute function f	[21] you correctly, as a result of the spreading

Page 66	Page 68
1) toxins, do you have an opinion as to whether an	(1) tissue to adjacent tissue. Of course, one can get
[2] examination of the fluid in the synovial joint	⁽²⁾ blood spread subsequently. On even as part of
[3] would have shown the presence of the streptococcal	[3] that.
[4] A infection?	(4) Q : How about in Mr. Awkward's case, do
(5) MS. JONES: I'm going to object only	[5] you have an opinion as to how the organism spread
6] on the basis of timing. Are you talking about —	(6) from the thigh?
[7] MS. CHRISTIE: At Saint Agnes.	7 A: I think it was by contiguity, from
[8] MS. JONES: I don't know what Dr.	(a) adjacent tissue to adjacent tissue.
^[9] Sacher was talking about was accumulation of flood	[9] Q : You've said that you don't believe a
[10] by the time he got to Union or —	[10] tap at Union Memorial would have been diagnostic.
[11] MS. CHRISTIE: I'm talking about at	[11] Is that correct?
[12] Saint Agnes.	(12) A: That is correct.
[13] A: My answer actually was considering	[13] Q: Do you have any opinion as to what
[14] the evolution toward the time from Saint Agnes to	[14] the cause of the knee pain was that he complained
[15] Union, when clearly a tap was done.	[15] of on admission to Saint Agnes?
[16] Q: Right.	[16] A: I believe that was referred pain.
[17] A : I believe and I have an opinion that	[17] Q : And what do you mean by that?
[18] if a tap was done at Saint Agnes it would not have	[18] A: Specifically, that there was
[19] been diagnostic.	(19) infection in the thigh and that with the
[20] Q: Why not?	[20] presumably evolution of the toxin, that although
[21] A: Because I think that this was a	[21] this — at what point did the toxin totally
Page 67	Page 69
11 predominantly toxin-related damage produced by a	[1] overwhelmed the system I don't know. It was in
[2] local infection in the thigh and, with the absence	^[1] over whenhed the system I don't know, it was in ^[2] that 36-hour period. But this produces a clinical
[3] of the inflammatory response, I don't know how	[3] reaction, and obviously the bodies senses that as
[4] easy it would be for anybody to interpret the	[4] a need for a response, and pain is part of that
[5] results at Union when it was already manifest,	[5] response.
[6] just looking at those results, compared to 36	[6] Q: In terms of the knee fluid, when Mr.
[7] hours previously at Saint Agnes where I really am	7 Awkward got to Union Memorial they did tap the
[8] convinced that it would have been nondiagnostic.	[a] knee, correct?
[9] Q : Can you explain to me how you believe	[9] A: Yes.
[10] the infection spread once it started in the thigh?	[10] Q: And that did yield some positive
(11) A: Well, I think it's evident that these	[11] results in terms of the presence of an infection.
(12) sorts of phenomena are related to toxin-induced	[12] Is that correct?
(13) tissue damage. Of course the organisms are there	[13] A : Yes.
(14) producing the toxin, but the toxin causes severe	[14] Q : Do you have an opinion as to at what
(15) damage to the tissue, and once that tissue barrier	[15] point between the time Mr.Awkward got to Saint
16 is compromised, then, of course, it spreads beyond	[16] Agnes and the time that he was admitted to Union
(17) that site of original injury.	(17) Memorial, at what point along that time line the
(18) Q: And how does it spread? Is it from	[18] knee — a knee tap would have been positive?
(19) adjacent tissue to adjacent tissue, or does it	(19) A: No. It would be total speculation.
1201 spread in some other fashion?	[20] I really have no opinion at what point it would be
[21] A: In those circumstances, from adjacent	[21] other than evolving.

Page 7	
	70 Page
1) Q : But it was not diagnostic in your	[1] A: I looked at what I thought were two
[2] opinion at Saint Agnes. Is that correct?	[2] tissue reports, reports of fluid. One was really
[3] A: That is correct.	(3) mostly unremarkable other than the occurrence of
[4] Q: Would not have been. Okay.	(4) occasional bacteria.
A: In fact, I would have expected much	[5] Q: Okay.
[6] more of an inflammatory response under normal	[6] A: In fact, if we go back to Union,
7) circumstances in sepsis of a knee joint than he	[7] perhaps I should look at the record to be quite
^[8] had. Again, I think it was really quite	(a) accurate.
attenuated by his disease processes, both the	[9] Q: Okay. That's fine.
of steroids as well as the lymphoproliferative	(10) A: I was referring specifically to the
1) disorder.	[11] report entitled Sterile Body Fluid collected on
2] Q : What do you mean by that? I'm not	(12) 1/20/99 at 1317 hours.
3) sure I understand that.	
4 A: Specifically, one tends to find	-
s higher levels of certain types of cells in an	[14] A: Indicating few gram positive cocci in
aspirate from the knee in a septic arthritis, and	(15) pairs, no polymorphonuclear leukocytes seen.
7] he didn't have nearly that degree. And also there	[16] Q: Okay. What is the significance of
a) were I think occasional organisms identified. I	μη the few gram positive cocci in pairs?
9 don't know how one would necessarily interpret	[18] A: Well, in this context one could argue
at that in the setting of the lower counts and the	[10] that this may well be organisms that have
1) fact that he really had little, if any, elevation	[20] colonized the outer portion of the skin. One can
	[21] still get organisms, even though one might
Page 7	1 Page
1) of his white cell count, overall blood count.	[1] sterilize the skin, that actually may grow.
q: Okay. At which point are you talking	[2] Certainly one would expect that if bacteria were
about?	[3] in the joint, there would be an inflammatory
	(4) response in response to those bacteria.
Q: At Union?	
G Q: At Union?	[4] response in response to those bacteria.
 Q: At Union? A: Yes. MS. JONES: Could I just take a short 	 [4] response in response to those bacteria. [5] Q: Can you say to a reasonable degree of
 Q: At Union? A: Yes. MS. JONES: Could I just take a short 	 (4) response in response to those bacteria. (5) Q: Can you say to a reasonable degree of (6) medical probability that the report of the few
 Q: At Union? A: Yes. MS. JONES: Could I just take a short break? 	 [4] response in response to those bacteria. [5] Q: Can you say to a reasonable degree of [6] medical probability that the report of the few [7] gram positive cocci in pairs is as a result of
 q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. 	 [4] response in response to those bacteria. [5] Q: Can you say to a reasonable degree of [6] medical probability that the report of the few [7] gram positive cocci in pairs is as a result of [8] contamination from the skin as opposed to what was
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 Q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of 	 (4) response in response to those bacteria. (5) Q: Can you say to a reasonable degree of (6) medical probability that the report of the few (7) gram positive cocci in pairs is as a result of (8) contamination from the skin as opposed to what was (9) actually in the knee aspirate itself? (10) A: No, I can't.Again, I'm not sure, (11) because there was another report of surgical wound
 Q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of cells that you mentioned, what types of cells are 	 (4) response in response to those bacteria. (5) Q: Can you say to a reasonable degree of (6) medical probability that the report of the few (7) gram positive cocci in pairs is as a result of (8) contamination from the skin as opposed to what was (9) actually in the knee aspirate itself? (10) A: No, I can't.Again, I'm not sure, (11) because there was another report of surgical wound (12) left knee with moderate polymorphonuclear
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 Q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of cells that you mentioned, what types of cells are you referring to? A: Cells that are called 	 [4] response in response to those bacteria. [5] Q: Can you say to a reasonable degree of [6] medical probability that the report of the few [7] gram positive cocci in pairs is as a result of [8] contamination from the skin as opposed to what was [9] actually in the knee aspirate itself? [10] A: No, I can't.Again, I'm not sure, [11] because there was another report of surgical wound [12] left knee with moderate polymorphonuclear [13] leukocytes and many gram positive cocci in chains, [14] where these are coming from. But, again, I think
 Q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Ob, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of cells that you mentioned, what types of cells are you referring to? A: Cells that are called polymorphonuclear leukocytes, neutrophils. 	 (4) response in response to those bacteria. (5) Q: Can you say to a reasonable degree of (6) medical probability that the report of the few (7) gram positive cocci in pairs is as a result of (8) contamination from the skin as opposed to what was (9) actually in the knee aspirate itself? (10) A: No, I can't. Again, I'm not sure, (11) because there was another report of surgical wound (12) left knee with moderate polymorphonuclear (13) leukocytes and many gram positive cocci in chains, (14) where these are coming from. But, again, I think (15) that with all of this and the relatively low white
 Q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of cells that you mentioned, what types of cells are you referring to? A: Cells that are called polymorphonuclear leukocytes, neutrophils. Q: Okay. And I want to make sure I 	 [4] response in response to those bacteria. [5] Q: Can you say to a reasonable degree of [6] medical probability that the report of the few [7] gram positive cocci in pairs is as a result of [8] contamination from the skin as opposed to what was [9] actually in the knee aspirate itself? [10] A: No, I can't.Again, I'm not sure, [11] because there was another report of surgical wound [12] left knee with moderate polymorphonuclear [13] leukocytes and many gram positive cocci in chains, [14] where these are coming from. But, again, I think [15] that with all of this and the relatively low white [16] cell count in the bloodstream, it would be
 q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of cells that you mentioned, what types of cells are you referring to? A: Cells that are called polymorphonuclear leukocytes, neutrophils. Q: Okay. And I want to make sure I understand what you said. You would have expected 	 (4) response in response to those bacteria. (5) Q: Can you say to a reasonable degree of (6) medical probability that the report of the few (7) gram positive cocci in pairs is as a result of (8) contamination from the skin as opposed to what was (9) actually in the knee aspirate itself? (10) A: No, I can't. Again, I'm not sure, (11) because there was another report of surgical wound (12) left knee with moderate polymorphonuclear (13) leukocytes and many gram positive cocci in chains, (14) where these are coming from. But, again, I think (15) that with all of this and the relatively low white (16) cell count in the bloodstream, it would be (17) difficult to totally interpret and make the
 q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of cells that you mentioned, what types of cells are you referring to? A: Cells that are called polymorphonuclear leukocytes, neutrophils. Q: Okay.And I want to make sure I 	 [4] response in response to those bacteria. [5] Q: Can you say to a reasonable degree of [6] medical probability that the report of the few [7] gram positive cocci in pairs is as a result of [8] contamination from the skin as opposed to what was [9] actually in the knee aspirate itself? [10] A: No, I can't. Again, I'm not sure, [11] because there was another report of surgical wound [12] left knee with moderate polymorphonuclear [13] leukocytes and many gram positive cocci in chains, [14] where these are coming from. But, again, I think [15] that with all of this and the relatively low white [16] cell count in the bloodstream, it would be [17] difficult to totally interpret and make the [18] diagnosis of a septic arthritis, primary in the
 q: At Union? A: Yes. MS. JONES: Could I just take a short break? MS. CHRISTIE: Oh, sure. Absolutely. (There is a recess from the record.) Q: The higher levels of certain types of cells that you mentioned, what types of cells are you referring to? A: Cells that are called polymorphonuclear leukocytes, neutrophils. Q: Okay. And I want to make sure I understand what you said. You would have expected to see higher levels of those cells at Union? 	 (4) response in response to those bacteria. (5) Q: Can you say to a reasonable degree of (6) medical probability that the report of the few (7) gram positive cocci in pairs is as a result of (8) contamination from the skin as opposed to what was (9) actually in the knee aspirate itself? (10) A: No, I can't. Again, I'm not sure, (11) because there was another report of surgical wound (12) left knee with moderate polymorphonuclear (13) leukocytes and many gram positive cocci in chains, (14) where these are coming from. But, again, I think (15) that with all of this and the relatively low white (16) cell count in the bloodstream, it would be (17) difficult to totally interpret and make the

	"}
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(1) spread from the thigh.	[1] And then you also said that you were asked to
[2] Q : Very early on when I asked you what	[2] evaluate or discuss the mechanism and cause of
3 you were asked to do with regard to this case and	(3) death. Is that right?
[4] what you had opinions that you're prepared to	[4] A: Well, only in the context that this
[5] render, you said you were asked to evaluate the	[5] was a galloping toxic shock syndrome from a
6 degree of the lymphoproliferative disorder and the	6 streptococcal organism and this produced a
7 type, which we discussed, correct?	[7] fulminant picture with death as the outcome.
[B] A: Correct.	[8] Q : Okay. You've answered my question.
[9] Q : Okay. You also were asked to	9 You don't think the cause of death was anything
[10] evaluate the outcome of the disease? And I wasn't	[10] other than the infection, do you?
(11) quite sure what you meant by that. Or I may have	[11] A: No.
(12) misunderstood what you said?	[12] Q : Have you been asked to evaluate any
[13] A: Well, perhaps I doesn't articulate it	[13] other aspects of this case?
[14] as well as I should, but the implication was the	[14] A: Not as far as I know. I think we've
[15] relationship between the disease, the	[15] covered pretty much everything. Obviously, I'll
[16] lymphoproliferative disease, the steroids that he	[16] respond to any questions that are asked of me.
[17] had been receiving, and the rapid deterioration	[17] Q : And I do understand that. We have
[18] following the infection with the organism and then	[18] talked about your opinions regarding life
[19] subsequent development of the toxic shock	[19] expectancy, and I believe we've covered your
[20] syndrome.	[20] opinions regarding the cause of Mr. Awkward's
[21] Q : All right. In my understanding,	[21] demise and the degree to which the underlying
Page 75	
(1) based on discussion we've just been having is that	Page 77
[2] your opinion is that the lymphoproliferative	11 lymphoma and steroid use contributed to that. I
[3] disorder, as well as the steroid use, added to the	[2] just want to make sure we've covered all the
[4] rapidity with which this infection spread. Is	[3] opinions that you hold in regard to those topics.
[5] that right?	(4) A: I believe so.
[6] A: Yes. Although, again, I think I also	[5] Q: Okay. If you give me a second, I
[7] implied in a previous answer that the superantigen	[6] think we're all going to be off the hook here.
(a) toxic shock syndrome phenomenon could occur in	[7] Doctor, you mentioned early in the
(a) anybody with a degree of rapidity, but I believe	(a) deposition that one of the things that you also
[10] that since this is all immune related that it	19] reviewed was the x-ray of the knee.
[11] probably compounded the situation.	[10] A: Yes.
[12] Q: Okay.	[11] Q: Did you find anything that was
(13) A: And I think we discussed that.	[12] significant in that x-ray with regard to the
[14] Q: Indeed. You've told me that you	[13] opinions that you've rendered today?
[15] believe that Mr. Awkward had a life expectancy of	(14) A: No, I wouldn't say that it changed or
[16] three to five years, correct?	[15] added to my opinions.
[17] A: Correct. I think we already	[16] Q: Okay. If you review any additional
	[17] material or you develop any additional opinions in
	[18] this case that we've not yet discussed, and there
[19] probable than not it would be closer to three for [20] the reasons that I articulated.	[19] may be other depositions that you see because
[20] the reasons that randomated.[21] Q: Yes. And then you did explain that.	[20] there are a few more depositions that remain to be
en i comini unui you uni capiani utat.	[21] taken, would you please let Ms. Jones know that

(1)	Page 78 you have additional opinions so that she can let	Page 80
	me know.	(1) waive reading and signing.
3]	A: I'd be happy to do that.	[2] (Thereupon, at 4:51 p.m., the
[4]	Q: Thank you. And then finally, this	(3) deposition was adjourned.)
[5]		[4]
(6)	beginning I believe November the 26th of this year	[5]
(7)	in the circuit court for Baltimore City. Do you	[6]
(1) (0)	intend to testify at trial?	[7]
	A: 1 do, yes.	[8]
[9]		[9]
(10)	MR. MANOOGIAN: Objection. He will	[10]
	testify or not at the request of counsel. So I	[11]
[12]	think that's a matter you would have to take up	[12]
[13]	with Ms. Jones. However, to be on the safe side,	[13]
(14)	plan on him being there.	[14]
[15]	MS. CHRISTIE: I assumed he would be	[15]
[16]	but that's why I asked.	[16]
[17]	Q: Occasionally I have had experts say	[17]
[18]		[18]
[19]	day, then I know they're not going to be there.	[19]
[20]	That's all the questions I have.	[20]
[21]	EXAMINATION	[21]
	Page 79	
(1)	BY MS. LACEY:	Page 81
	DI WOLLAULI:	
[2]	Q: Doctor, this is Lauren Lacey. I'm	[1] District of Columbia
(2) (3)		1) District of Columbia [2] to wit:
[3]	Q: Doctor, this is Lauren Lacey. I'm	 [1] District of Columbia [2] to wit: [3] I, Diane Gomez, a Notary Public of the
(3) (4)	Q : Doctor, this is Lauren Lacey. I'm representing Saint Agnes in this matter. I just	 [1] District of Columbia [2] to wit: [3] I, Diane Gomez, a Notary Public of the [4] District of Columbia, do hereby certify that the
(3) (4)	Q : Doctor, this is Lauren Lacey. I'm representing Saint Agnes in this matter. I just have I think one or two questions for you, and	 [1] District of Columbia [2] to wit; [3] I, Diane Gomez, a Notary Public of the [4] District of Columbia, do hereby certify that the [5] within-named witness personally appeared before me
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[1] CERTIFICATE OF DEPONENT	i ago oo		
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[3] I hereby certify that I have read and			
[4] examined the foregoing transcript, and the same is			
(5) a true and accurate record of the testimony given			
[6] by me.			
[7] Any additions or corrections that I teel			
[8] are necessary, I will attach on a separate sheet[9] of paper to the original transcript.		ĺ	
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[13] RONALD ALAN SACHER, B.Sc.			
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Lawyer's Notes

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