

Doc. 462

Case No. 221097.

[1994](#)
[1995](#)
[1996](#)
[1997](#)
[1998](#)

COURT REPORTERS
Computerized Transcription
Computerized Litigation Support
THE 113 ST. CLAIR BUILDING - SUITE 420
CLEVELAND, OHIO 44114-1273
(216) 771-8018
1-800-837-DEPO

1 APPEARANCES:

2
3 ON BEHALF OF THE PLAINTIFFS:

4 Christopher M. Mellino, Esq.

5 Donna Kolis, Esq.

6 Law offices of Charles Kampinski Co., L.P.A.

7 1530 Standard Building

8 Cleveland, Ohio 44113.

9 - - - - -

10 ON BEHALF OF DEFENDANT DRS. SUNDARESH/MORTIMER:

11 John V. Jackson II, Esq.

12 Robert C. Seibel, Esq.

13 Steven J. Hupp, Esq.

14 Dirk Riemenschneider, Esq.

15 Jacobson, Maynard, Tuschman & Kalur

16 1001 Lakeside Avenue

17 Cleveland, Ohio 44114

18 - - - - -

19 ON BEHALF OF THE DEFENDANT

20 METROHEALTH HOSPITAL FOR WOMEN:

21 Francis X. Gardner, Esq.

22 Reminger & Reminger

23 The 113 Saint Clair Building

24 Cleveland, Ohio 44114-1273.

25 - - - - -

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

WITNESS:

KENNETH ZAHKA, M.D.

Page

Cross-examination by Mr. Mellino

4

- - - - -

DR. ZAHKA DEPOSITION EXHIBITS:

MARKED

1 - Dr. Zahka's file on Kaitlin Stevens

34

- - - - -

INDEX of OBJECTIONS

BY MR. JACKSON:

PAGE/LINE

19/12

- - - - -

BY MR. SEIBEL:

PAGE/LINE

31/10

- - - - -

1 KENNETH G. ZAHKA, M.D.

2 of lawful age, a witness herein, called by the
3 plaintiffs for the purpose of cross-examination
4 pursuant to the Ohio Rules of Civil Procedure, being
5 first duly sworn, as hereinafter certified, was
6 examined and testified as follows:

7 - - - - -

8 CROSS-EXAMINATION

9 BY MR. MELLINO:

10 Q. Would you state your full name, please, Doctor?

11 A. Kenneth Zahka.

12 Q. What is your current position?

13 A. I am Director of Pediatric Cardiology at Rainbow
14 Babies and Childrens Hospital, Case Western Reserve
15 School of Medicine.

16 Q. How long have you held that position?

17 A. Since July of 1990.

18 Q. When did you come to the University Hospitals?

19 A. July of 1990.

20 Q. Where were you before that?

21 A. Johns Hopkins Hospital.

22 Q. What did you do there? What position did you
23 hold at Johns Hopkins?

24 A. I am faculty of the Johns Hopkins School of
25 Medicine, I was a pediatric cardiologist at

1 Johns Hopkins.

2 Q. What is your professional relationship with
3 Dr. Mortimer?

4 A. I am on the same Case Western Reserve University
5 School of Medicine faculty.

6 Q. Do you have any relationship with her in your
7 daily practice?

8 A. We share a number of common patients because of
9 her interest in Down syndrome and my position as
10 pediatric cardiologist.

11 Q. Are you in the same department as her?

12 A. We are in the same department.

13 Q. Is your position superior to hers?

14 A. We would be considered colleagues,

15 Q. Okay. I'm not sure you answered my question or
16 not, though,

17 I mean, you could be colleagues and
18 still one be a superior position to the other?

19 A. You will have to refocus your question.

20 Q. What is her position?

21 a. In the department? Her title?

22 Q. Yes.

23 A. I am not sure.

24 Q. What department is it that we're talking about?

25 A. The Department of Pediatrics.

1 Q. Do you have any supervisory authority over her?

2 A. No.

3 Q. Does she have any over you?

4 A. None that I am aware of.

5 THE WITNESS: Lori, can we go
6 downstairs at 1:30?

7 LORI: Yes, you can.

8 Q. Do you have any professional relationship with
9 Dr. Mortimer outside of University Hospital?

10 A. No.

11 Q. Have you given presentations with her?

12 A. Yes.

13 Q. When and where?

14 A. I have given a presentation to the Down's
15 Syndrome Parents Group, the upside of Down's, each of
16 the past two years at their physicians night, and she
17 has also been on the program.

18 Q. Where have the presentations taken place?

E9 A. At the Rainbow Babies and Childrens Hospital
20 Amphitheater.

21 Q. Is there any written transcripts of that
22 presentation or any written materials that were given
23 at those presentations?

24 A. Not that I am aware of.

25 Q. Nave you two given any other presentations

1 together?

2 A. Not that I recall.

3 Q. Do you see each other socially?

4 A. No.

5 Q. Did you know her before you came to University
6 Hospital?

7 A. No.

8 Q. Are there any text in pediatrics that you
9 consider authoritative?

10 A. On what subject?

11 Q. Down syndrome.

12 A. Authoritative text on Down's syndrome, not that
13 come to mind.

14 Q. How about any articles?

15 A. On what area of Down syndrome are you
16 interested?

17 Q. Just Down's syndrome.

18 A. The tendency in the medical literature would be
19 not to write an article on Down's syndrome in a peer
20 review journal. The article that you would write
21 would be on a specific aspect of Down's syndrome in a
22 peer review journal.

23 Q. How about heart defects in Down syndrome
24 children?

25 A. As you're aware of from my CV, I have authored,

1 co-authored an article on heart defects in Down
2 syndromes, and I hope that has become one of the
3 authoritative articles.

4 Q. I didn't really have a chance to read your CV
5 before we started.

6 Is there more than one article?

7 A. No, sir.

8 Q. if you can identify the article for me, please?

9 A. Article number 23, it's entitled, "Patterns of
10 Cardiac Care in Infants with Down's syndrome."

11 Q. How about are there any text which you consider
12 authoritative in the field of pediatric cardiology?

13 A. There are text in pediatric cardiology. You
14 would need to be more specific for me to be able to
15 answer the question to whether they are authoritative
16 with regard to the issues that you are interested in.

17 Q. Well, the issues that I am interested in are
18 heart defects in Down syndrome children.

19 Are there any text that are
20 authoritative in dealing with those issues?

21 A. I'm not familiar enough with the individual
22 chapters in any of the well-known text in pediatric
23 cardiology enough to be able to answer whether I agree
24 with everything that is in those chapters.

25 Q. What are the well-known text in pediatric

1 cardiology?

2 a. Can you clarify your question, please?

3 Well-known in which way, by my residents, by my

4 Fellows, by sales? Would you clarify, please?

5 Q. You answered my question by saying you weren't

6 familiar enough with well-known pediatric cardiology

7 texts. I'm asking what you would consider the

8 well-known pediatric texts?

9 THE WITNESS: Can we break and
10 go downstairs?

11 MR. SEIBEL: Sure.

12 Q. Before we break, since I am in your office, why

13 don't you tell me what text you have in your office

14 that deal with either pediatrics or pediatric

15 cardiology?

16 A. You are welcome to review them off of my shelf.

17 I am a pediatric cardiologist, most of my textbooks

18 deal with cardiovascular physiology and heart disease.

19 I am not going to go down the entire list.

20 THE WITNESS: I would like to go
21 off the record.

22 MR. SEIBEL: Sure.

23 - - - - -

24 (Interruption in proceedings.)

25 - - - - -

1 ~~BY-MR.-MELLINO:~~

2 Q. Before we broke I asked you what text you
3 considered were -- what text you consider were
4 well-known in the area of pediatric cardiology on the
5 issues of heart defects in Down syndrome children, can
6 you answer that for me?

7 A. I answered your question that I was not aware of
8 any of the specific general text which were viewed
9 authoritative on the subject of heart defects in
10 Down's syndrome, and I am not aware of any specific
11 textbooks on heart defects in Down's syndrome.

12 Q. What text do you use in your practice with
13 dealing with those issues?

14 A. I am an associate professor, pediatric
15 cardiologist at Case Western Reserve University School
16 of Medicine, I rely on Med-Line searches and specific
17 articles for researching my papers.

18 Q. You don't use any textbooks in dealing with
19 those issues?

20 A. No, sir, I do not.

21 Q. Can you tell me any articles which you have
22 relied on in dealing with those issues in your
23 practice?

24 A. I'm sorry. Can you repeat your question?

25 Q. Can you cite for me any articles that you used

1 in the past in dealing with those issues in your
2 practice?

3 A. I will refer you to the bibliography that's
4 present in the article in 1989 in American Journal of
5 Disease, of where I quoted several articles.

6 Q. When did you first see Kaitlin Stevens?

7 MR. SEIBEL: While he's
8 looking, just for the record the Doctor has his
9 original chart in front of him from Xaitlin Stevens!
10 and out of fairness I don't think that anybody except
11 Mr. Mellino has a copy of that, so I'll make sure that
12 everyone gets a copy as requested.

13 Does anybody want a copy of
14 Dr. Zahka's chart?

15 MR. MELLINO: I'm going to mark
16 it and make it an exhibit

17 MR. SEIBEL: It's not leaving
18 here, Chris. I'm sure we can get a copy made, but he
19 continues to see her, so.

20 MR. MELLINO: That's fine.

21 A. The first letter from one of my visits is dated
22 April 9, 1991.

23 Q. Is that the first time you saw her?

24 A. I cannot recall whether or not I had seen her as
25 part of her hospitalizations, whether I had covered

1 for her for a weekend, for example.

2 Q. Who made the diagnosis of the heart defect?

3 A. The first consultation in our chart is from my
4 colleague Dr. Butto, and our Fellow -- actually a
5 medical student, date on that consultation
6 is 11-20-90.

7 Q. Did you have any involvement at all in the
8 diagnosis of the heart defect?

9 A. We have a cardiac catheterization surgical
10 conference every Monday afternoon where we discuss the
11 data from cardiac catheterizations, and we have a
12 Monday, 8:00 a.m. conference where we discuss all the
13 inpatients that are being taken care of in the
14 pediatric cardiology service, and I attend each of
15 those conferences when I am in town, and I was at, at
16 least one of the cardiac catheterization conferences
17 where we discussed Kaitlin's data.

18 Q. Who would have been present at this one
19 conference that you were at?

20 A. My colleagues, Dr. Butto, at that time
21 Dr. Ben-Shachar, Dr. Liebman; and the surgeons
22 Dr. VanHeeckeren, Dr. Spector; and our Fellows, and
23 our nurses.

24 Q. Do you remember when this was?

25 a. I know it's in here somewhere.

1 Is the actual date very important?

2 Q. Yes.

3 A. As opposed to the month and the year?

4 Q. Would it have been the Monday after the date on
5 the catheter report?

6 A. Yes.

7 Q. Okay. I take it that's what you are lookingy
8 for?

9 A. No, I have seen the cath reports. It had been
10 here, a copy of the minutes from the catheterization
11 conference.

12 The date on the catheterization was
13 11-28 of '90.

14 Q. So the date of the cath conference would have
15 been the Monday following 11-28-90?

16 A. Yes. Probably. We meet every week.

17 Q. And in your file there was contained the minutes
18 of that cath conference?

19 A. As it pertained to her. It was in it when I
20 yave it to you, the file,

21 Q. You yave it to me?

22 a. To review the chart.

23 Q. Before your deposition?

24 MR. SEIBEL: About ten minutes
25 ago?

1 A. Shortly after we began the deposition you
2 reviewed the chart.

3 MR. SEIBEL: Do you have it,
4 Chris?

5 MR. MELLINO: No, I don't have
6 it.

7 Do you have it, Bob?

8 MR. SEIBEL: No.

9 MR. MELLINO: Do you have it,
10 John?

11 MR. JACKSON: How would I have
12 it?

13 MR. MELLINO: I handed you the
14 records.

15 THE WITNESS: It has to be here.
16 We may be able to find it in another place, too.

17 Here it is.

18 MR. MELLINO: Can I see that?

19 THE WITNESS: Sure. It's
20 all right for him to see it?

21 MR. SEIBEL: Sure.

22 For the record the mystery is solved.
23 It was attached to another document.

24 Apparently Mr. Mellino didn't have it.

25

- - - - -

1 BY MR. MELLINO:

2 Q That note, that's the minutes of the cath
3 meeting that we said before?

4 A. Correct.

5 Q. It's signed, at least has Dr. Butto's name on
6 the bottom of it?

7 A. He would be the person who had been responsible
8 for that conference, for dictating the minutes.

9 Q. Whose conclusion would be contained in the
10 minutes?

11 A. That would be a consensus opinion of the group,
12 If there were any dissenting opinions, they would on
13 most occasions be stated with the specific dissenter's
14 name attached to the statement.

15 Q. Do you remember there being any dissent?

16 A. There was no dissenter.

17 Q. What **was** the nature of Kaitlin's heart defect?

18 A. She has a congenital heart defect, the name of
19 it, Complete Atrioventricular Canal.

20 Q. What does that mean in laymen's terms?

21 A. It is a defect that includes a hole between the
22 pumping chambers of the heart that extends into the
23 receiving chambers. It is a common valve between the
24 receiving chambers and the pumping chambers instead of
25 two separate valves.

- 1 Q. What consequence does that have for the patient?
- 2 A. It results in high pressure on the right side of
- 3 the heart.
- 4 Q Is it repairable?
- 5 A. It is surgically repairable.
- 6 Q. Is it repairable in the first two years of life?
- 7 A. It is in general repairable in the first
- 8 two years of life.
- 9 Q. How is AV canal defect diagnosed?
- 10 A. AV canal defect, like many of the other defects,
- 11 is diagnosed by combination of physical examination,
- 12 electrocardiography, echocardiography, and cardiac
- 13 catheterization.
- 14 Q. What percentage of Down syndrome children have
- 15 these congenital or have congenital heart defects?
- 16 MR. SEIBEL: This specific one
- 17 or in general?
- 18 MR. MELLINO: Heart defects,
- 19 A. That epidemiologic data are not known. The
- 20 usual quoted prevalence of heart disease in children
- 21 with Down's syndrome is somewhere between 30
- 22 and 40 percent.
- 23 Q. Wow about AV canal defect?
- 24 A. AV canal defect comprises 63 percent of heart
- 25 disease in children, in children with Down's syndrome.

1 Q. Wow long has that been common knowledge in the
2 medical community?

3 MR. SEIBEL: I don't think he
4 said it is common knowledge, Chris.

5 Q. Well, is that common knowledge in the medical
6 community.

7 A. Is what common knowledge?

8 Q. The incidence of heart defect in AV canal in
9 Down syndrome children?

4
10 A. It's been recognized for a number of years that
11 children with Down's syndrome have heart defects.

12 Q. What, can you give me a number, how many numbers
13 of years?

14 A. The specialty of pediatric cardiology has been
15 around for 40 years, 45 years, 50 years. That was in
16 the -- prior to that time all defects were diagnosed
17 by autopsies, actually.

18 Q. So you are saying this has been common knowledge
19 then for the last 40 years?

20 A. No. I said that heart defects in children,
21 including children with Down's syndrome, have begun to
22 be recognized by pediatric cardiologists for
23 about 50 years. My viewpoint is from the viewpoint of
24 a pediatric cardiologist.

25 Q. You are also a pediatrician?

1 A. I have not ever practiced pediatrics.

2 Q Well, do you know if the incidence of heart
3 defect is common knowledge in the field of pediatrics?

4 A. Let me, rather than speculate on time, rather
5 than speculate on what your question entails, say I
6 began my pediatric training in 1975.

7 As part of my house staff training I
8 took care of children who had Down's syndrome and
9 heart defects, and so that I would assume at that time
10 part of medical care, the medical care system
11 understood that children with Down's syndrome had
12 heart defects.

13 How much further beyond, before that,
14 I don't know.

15 Q. Fair enough.

16 Did the --

17 A. Can you speak up.

18 Q. Sure.

19 Given the fact that there's high
20 incidence of heart defects in Down syndrome children,
21 is it required that ERG or echocardiograms be done in
22 the first few months of life?

23 A. Are you asking a question of the standard of
24 care for children with Down's syndrome?

25 Can you refocus your question in other

terms?

Q. Other terms? You want me to ask it in terms of
3 standard of care?

4 MR. SEIBEL: I think his
5 concern is with "require," your use of the term
6 "require." If you could work with that a little bit.

7 MR. MELLINO: All right.

8 Q. Is it standard of care to do an ERG or
9 echocardiogram on a Down's syndrome infant within the
10 first few months of life to diagnosis a potential
11 heart defect?

12 MR. JACKSON: Objection.

E3 A. That standard of care has much more variation in
14 regional areas than I had previously recognized before
15 coming here to Ohio. It certainly was very common
16 that children in the Baltimore, Washington area got
17 electrocardiograms or echocardiograms. Whether they
18 all got it, I don't know! because I wasn't -- I only
19 saw the ones who did yet it, and a significant
20 proportion of the ones that I did see in the
21 Baltimore, Washington area had heart defect.

22 Now, if we say that common knowledge
23 is that 40 percent of children who had Down's syndrome
24 have heart defects, then as I think in retrospect of
25 this, how come I wasn't seeing six normals for every

1 four that I picked up, because I was clearly seeing
2 eight abnormals for every two normals in the
3 Baltimore, Washington area.

4 So probably in retrospect somebody was
5 screening those children without ECG and echo, so they
6 were somehow being screened before they came to me,

7 When I came to Ohio and discussed my
8 interest in echocardiography and my devotion to
9 echocardiography with my colleagues, I actually found
10 that the practice that I had developed of -- in
11 pediatric cardiology, in general, in Maryland was more
12 for or skewed to echocardiography in general! and also
13 much more skewed towards echocardiography in specific
14 for Down's syndrome or any kind of screening
15 operation, and I was fairly surprised to find that.

16 As you probably know, I usually do, as
17 an individual, recommend screening echocardiography
18 for children with Down's syndrome, and in the two
19 Down syndrome parents group meetings that I spoke at,
20 I recommended that in those meetings because that is
21 my personal opinion.

22 I've come to realize that that opinion
23 is not shared by everybody, but it's clearly my
24 personal opinion.

25 Q. These meetings were when, '91 and '90?

1 A. It would have been January -- January of '92 and
2 January of '91.

3 Q. And I assume that you were of the same opinion
4 as far as recommending this echocardiographic
5 screening when you were in Baltimore?

6 A. Over the period of time of this case, I did in
7 fact in Baltimore recommend the same thing to my
8 referring pediatricians in Baltimore.

9 Q. You mentioned earlier that 1975 when you were
10 undergoing training and also taking care of Down
11 syndrome children -- that I assume was with and
12 without heart defects; is that fair?

13 A. I think I probably took care of some children
14 with Down's syndrome who had leukemia. It's a long
15 time ago.

16 Q. When we talked about that before it was in the
17 context of your pediatric training?

18 A. Right. The problem is I can remember one child
19 quite vividly and so I was thinking of her, in
20 particular of her heart defect in particular. I can
21 even remember her name today.

22 There are certain things as part of
23 your training that become drilled in your memory
24 because of their circumstances, although generalities
25 may not be clearly as vivid 15, 20 years later.

1 Q. As part of the care that you gave those
2 children, did you do any kind of screening for heart
3 defects?

4 A. That would not have been my role or practice at
5 that time. I was a pediatric house officer.

6 Q. So it would have been up to whoever the
7 attending was at that time to order screening?

8 A. That's correct.

9 Q. Did you understand that that was part of the
10 care that was to be given?

11 A. I would say in retrospect that clearly wasn't
12 part of a care at that time in 1975. That's an
13 opinion and/or speculation.

14 Q. When did you become an attending?

15 MR. SEIBEL: An attending what?

16 A. I joined the faculty at the Johns Hopkins,
17 University School of Medicine of Johns Hopkins
18 Hospital. in 1981 as a pediatric cardiologist.

19 Q. And in 1981 would it have been standard of care
20 to do any kind of screening?

21 A. My observations?

22 Q. Okay. I'll ask the question again.

23 Was it part of the care that was being
24 given at Johns Hopkins in 1981 to do any kind of
25 screening, either EKG or electrocardiogram, or even a

1 referral to a pediatric cardiologist in the treatment
2 of Down syndrome children?

3 A. I am going to say I doubt it, but I would prefer
4 not to yet into the argument of, "Well, Dr. Zahka, did
5 you start recommending this to your referring
6 pediatrician."

7 I would suspect it was sometime around
8 when we got interested in writing that paper. So the
9 paper came out in '89. We probably started thinking
10 about that paper in '87, and said what is going on
11 with Down's syndrome referrals. Why does sometimes
12 they're not picked up? Are they being picked up in
13 the Baltimore, Washington area? Are they being picked
14 up in a timely fashion in the Baltimore, Washington
15 area?

16 Q. Are you aware of any literature that was in
17 publication before 1989 that recommended, made the
18 same recommendation that you do now, and that is
19 screening for heart defects in Down syndrome children?

20 A. I don't think so, because I don't exactly recall
21 as we were reviewing the literature for that paper,
22 seeing an article that came out and said that is a
23 recommendation.

24 Q. How about any textbooks?

25 A. With either some degree of pride or

1 embarrassment, I will once again tell you that I don't
2 read textbooks. I have chapters that I have to write
3 for them, but I don't honestly read them.

4 Q. In your practice do you treat Down syndrome
5 children that have unrepaired AV canal defects?

6 A. Yes, sir, we do.

7 Q. What is their clinical source?

8 A. As a group or individually?

9 Q. Let's talk about as a group first.

10 a. Children with unrepaired AV canal defects
11 eventually get Eisenmenger's syndrome, at some rate.
12 20 months is very unusual. Three years, four years,
13 five years is much more typical.

14 Q. Were you done with your answer?

15 A. Yes.

16 Q. I didn't want to interrupt you, that's all.

17 What is Eisenmenger's syndrome?

18 A. Eisenmenger's syndrome is when the arteries in
19 the lung, the small arteries in the lung become
20 damaged because of high pressure and/or high blood
21 flow that is present usually from the time of birth.

22 Q. It's high blood flow?

23 A. Or high blood flow. High pressure or high blood
24 flow, or the combination of those two things.

25 Q. Do Down syndrome children with unrepaired AV

1 canal defects have a decreased life expectancy?

2 MR. SEIBEL: From what? What
3 are you comparing it to? You're asking the doctor to
4 say whether they have a reduced life expectancy
5 compared to what?

6 Q. Compared to a child who has a repaired AV canal
7 defect?

8 A. Individuals who have Eisenmenger's, the data
9 that are available, are that individuals who have
10 Eisenmenger's in general, not specifically whether
11 they have Down's syndrome or not, live into their
12 third, fourth, and fifth decade. 20, 30, 40, and
13 occasionally 50's, that is less than the life span of
14 an adult in America today.

15 There are --

16 Q. Go ahead.

17 A. There are other aspects to your question, which
18 we can yet into more specifically as you want to know
19 each aspect of it. I can tell you what is known by me
20 on those issues.

21 Q. What is the life expectancy of somebody who has
22 Down's syndrome?

23 a. I am not aware of that particular fact. I have
24 an opinion about the data that are available for
25 Down's syndrome who have had heart defect repaired.

1 Q. So there is data available that has Life
2 expectancy for repair of heart defects, for children
3 who had their heart defect repaired?

4 A. In fact, to my knowledge those data are not.
5 available for Down's syndrome life expectancy, and the
6 reason I bring this up is that I was very privileged
7 to be part of a long term natural history study
8 collaborative with six institutions across the
9 United States that looked at three specific defects in
10 a young adult who had repair in early childhood, and
11 included was -- in that was not AV canal, included in
12 that were not specifically Down's syndrome patients.

13 In those data we asked at the time,
14 some of us, are they available for Down's syndrome
15 individually and for that 20, 30, 40 year follow-up
16 that says will the natural history of repaired AV
17 canal be the same in Down's syndrome as in normals, in
18 normal people without Down's syndrome rather, we don't
19 know that yet.

20 You can speculate yes or no, but at
21 the present time we do not know the 25, 30, 40, or
22 50 year follow-up of Down's syndrome with complete AV
23 canal, and for that matter we don't know the 25, 30
24 or 40 year follow-up of AV canal in the occasional
25 person without a chromosomal problem who will have it.

1 We do know the 25, 30 follow-up for other heart:
2 defects in usual individuals without Down's syndrome.

3 Whatever speculation you want to take
4 between Down's syndrome and non-Down's syndrome,
5 between other heart defects and AV canal would be open
6 for discussion,

7 Q. Well, do you have an opinion on what the
8 correlation is between the life expectancy of people
9 with Down's syndrome and people without, when we're
10 talking in the context of heart defects?

11 A. I think we probably shouldn't draw the parallel.
12 There is no reason to think that they wouldn't be
13 comparable; but for the same, *to* connect them, there
14 is no reason to think that they will be, and that's
15 what I told the parents group in our last meeting in
16 early 1992.

17 My hope and expectation is that they
18 would have a comparable natural history, but we don't
19 know yet that specifically; although we know a lot
20 about ventricular septum defect and ventriloogy, the
21 other two common heart defects in Down's syndrome and
22 patients without Down's syndrome, but we unfortunately
23 knew very little about the true 20 year, even,
24 follow-up of AV canal.

25 Q. Are there studies that are published about life

1 expectancy of children with unrepaired AV canal
2 defects?

3 A. As I wrote a chapter for a textbook that is
4 coming out, Adolescence_Medicine, on the adolescent
5 and young adults with congenital heart disease,
6 unrepaired, I re-did my literature search. It's not
7 out yet. I re-did my literature search on
8 Eisenmenger's. I was actually very disappointed to
9 see in fact how little had been written in the last
10 two decades on Eisenmenger's. It's almost as if we
11 kind of forgotten about this as a problem.

12 The last two articles, the better
13 articles are back in the early '70s, and they are not
14 terrible good in terms of really defining natural
15 history.

16 I would also urge you to wait,
17 whenever it comes out, for part of the natural history
18 study on ventricular septal defect, which may address
19 some of the Eisenmenger patients as well. in a subset.
20 That may be out in a couple years.

21 **a.** When is this new chapter that you are publishing
22 going to be out?

23 A. I have been waiting for it for a while. I
24 haven't seen it yet.

25 Q. What is it going to be published in? What's the

1 name of the book?

2 A. It is out of the University of Rochester,
3 probably called Adolescence_Medicine or something like
4 that.

5 I am a relatively focused person, and
6 they asked me to write a chapter about adolescent
7 heart disease, it's going to be an adolescent
8 textbook, and my secretary sends it to where it goes.

9 Q. Is that on your CV?

10 A. No, it hasn't come out yet.

11 Q. Are there any other articles or book chapters
12 that have been published that aren't on your CV?

13 A. No.

14 Q. Are there any that are pending publications in
15 addition to this one?

16 A. I have some chapters in an intensive care
17 textbook, second edition of the Roger's_Textbook about
18 cardiovascular physiology, not particularly pertinent
19 to this.

20 Q. We talked about Eisenmenger's syndrome, you
21 mentioned it a few times, an I correct in
22 understanding that that syndrome that the child
23 developed is as a result of the failure to repair the
24 AV canal defect?

25 A. The syndrome results from the high pressure

1 and/or high blood flow.

2 Q. And the high blood pressure or high blood flow
3 results from the defect?

4 A. The heart defect.

5 Q. What symptoms does somebody with Eisenmenger's
6 syndrome experience throughout their lifetime?

7 A. They usually become blue, the medical name for
8 that is cyanosis, They over a period of decades have
9 decreasing exercise tolerance and probably in a number
10 of them eventually develop either heart rhythm
11 problems or heart function problems related to the
12 chronic load on the heart.

13 Q. I'm sorry. Heart rhythm function and what?

14 A. Heart rhythm and heart function problems.

15 Q. What does decreasing exercise tolerance mean in
16 laymen's terms?

17 A. It means, for example, it would take you longer
18 to walk a block. For example, if at age 10 it takes
19 you one minute, at age 20 it may take you a minute and
20 a half, at age 30 it may take you two or
21 three minutes.

22 Q. Does a person with Eisenmenger's syndrome also
23 experience hypoxia?

24 A. That is the nature of the cyanosis. That's the
25 laboratory measurement of cyanosis.

1 Q. What is hypoxia?

2 MR. SEIBEL: Chris, you know
3 that the Doctor knows what hypoxia is. Come on. You
4 don't. know what hypoxia is? Get to something
5 meaningful.

6 In fact, you don't. have to answer
7 that. It's so commonly known that that's a flagrant
8 abuse of the Doctor's good graces of you being here.

9 MR. MELLINO: Are you
10 instructing him not to answer what hypoxia is?

11 MR. SEIBEL: You bet I am, yes.

12 ~~BY-MR.-MELLINO-~~

13 Q. Does the hypoxia somebody with Eisenmenger's
14 syndrome would experience have an effect on their
15 organs?

16 A. Not in general. In general because they have
17 adequate blood flow to their organs and the body
18 extracts the oxygen that it needs from the blood and
19 the organs work properly.

20 Q. Is organ dysfunction as a result of hypoxia
21 something that can occur in patients with
22 Eisenmenger's syndrome?

23 A. I will say not directly due to the low oxygen
24 itself.

25 Q. Can they have organ dysfunction resulting from

1 Eisenmenger's syndrome?

2 A. In general prior to their death they do have
3 organ dysfunction, secondary to the long -- the
4 eventual heart function problems, which may limit the
5 perfusion to the kidney or to the liver.

6 Q. So the damage to the organ occurs as a result of
7 heart dysfunction, loss of heart function, therefore
8 resulting in loss of blood flow to those organs?

9 A. That has been my experience for those patients
10 at the end of their course. That's when eventually
11 the heart function itself, the muscular function of
12 the heart becomes a problem. That's when they develop
13 more in the way of kidney or liver dysfunction.

14 Q. When does that usually occur?

15 A. It's of the natural history! that is it exists
16 in literature of Eisenmenger's suggesting that it
17 eventually actually happens in the third, fourth, or
18 fifth decade. That's also been my experience, late
19 20, 30, occasionally 40's.

20 Q. How much do these patients' exercise tolerance
21 decrease as you get into the later decades?

22 A. That's never actually been quantified in a
23 study. My personal experience is that it's actually
24 very variable.

25 You know, I can remember one young

1 woman who had a lot of breathlessness with exercise in
2 her late teens, and other patients who were still very
3 much ambulatory in their 30's. Seen one woman who was
4 in her late 40's who was ambulatory and working. It's
5 not a patient with Down's syndrome, however.

6 Q. Now, did you ever look at the ERG that was done
7 in July of '90?

8 A. That would have been before --

9 Q. You can take a look at it, if you want.

10 A. That would have been before I started taking
11 care of her and I have never seen that ECG, and I
12 would personally prefer, because of my relationship
13 with the institution and this family, my personal
14 request is that I not function here as an expert
15 witness, In deference to this family, in deference to
16 my colleagues, I will not change that approach.

17 So please take the ECG, which I have
18 not seen, which is not integral to my care of Kaitlin
19 Stevens, please take it from in front of me so I can
20 turn and look at you. Please.

21 Please do not destroy my relationship
22 with this family by asking me to be an expert witness.
23 I am Kaitlin Stevens' pediatric cardiologist. Please
24 do not do anything today to disturb that relationship.

25 MR. MELLINO: Frank, would you

1 mark his folder.

2 MR. SEIBEL: I think he
3 understands what you are talking about.

4 - - - - -

5 (Dr. Zahka Deposition Exhibit 1
6 marked for identification.)

7 - - - - -

8 ~~BY-MR.-~~MELLINO:

9 Q. Doctor, I have marked your file on Kaitlin
10 Stevens as Deposition Exhibit 1, is this all your
11 records you have in your possession regarding
12 Kaitlin Stevens?

13 A. Yes. You may copy these. These are my only
14 records on her.

15 Q. I understand.

16 A. They cannot be taken from this room.

17 MR. SEIBEL: Doctor, what we'll
18 do, and this is on the record, if your office could
19 just copy make one set of those, a copy for me, send
20 them to me and I'll make sure all counsel get
21 distributed a copy, okay. If you just have a copy
22 made, one copy; is that acceptable, Chris?

23 MR. MELLINO: I don't know.

24 MR. SEIBEL: It's going to be
25 kept in Dr. Zahka's possession. If you want to come

1 back and compare the copy you got from me that you
2 have of the original, we'll make arrangement for you
3 to do that.

4 MR. MELLINO: Okay. That's
5 fine.

6 Q. And you will retain this original exhibit in
7 your possession, correct?

8 A. In order to be able to continue to take care of
9 Kaitlin, it's a very important part of my record.

10 Q Has this Exhibit 1 ever left your possession?

11 A. We have a separate filing room, this morning I
12 asked my secretary for Kaitlin's chart, and she
13 brought me Kaitlin's chart. To my belief, it is
14 possible that that may be -- a good portion may
15 already be in the possession of counsel.

16 Q. I'm just asking about these records right here
17 that you maintain as your personal file.

18 A. That's correct.

19 Q. You've always maintained possession of them?

20 A. Yes, to the best of my knowledge.

21 Q. Have you removed anything, you or your attorney,
22 removed anything out of this file?

23 a. No.

24 MR. SEIBEL: Just for the
25 record, I removed one piece of confidential

1 attorney/client correspondence, a letter from me to
2 the doctor; other than that, there has been nothing
3 removed from this file.

4 MR. MELLINO: Do you have the
5 letter? I just want to know what the date of the
6 letter was,

7 MR. SEIBEL: It was as to
8 scheduling the deposition, and I think it was sometime
9 in the last 30 to 45 days.

10 MR. MELLINO: Okay.

11 THE WITNESS: That letter was
12 clipped to this file, when my secretary gave it to me,
13 I took it off, I put in inside the file.

14 Q. Did you send a copy of these records to your
15 lawyer?

16 A. To my lawyer?

17 MR. SEIBEL He means me. No
18 you never did.

19 A. NO.

20 Q. Did you ever discuss Kaitlin with Dr. Sundaresh?

21 A. No, Sir.

22 Q. Have you ever seen Dr. Sundaresh's records?

23 A. No, sir,

24 Q. Have you discussed Kaitlin with Dr. Mortimer?

25 A. The honest answer to that is I can't remember,

1 because it is certainly possible she would say to me
2 how is Kaitlin Stevens doing.

3 Q. Did you ever talk to her about the ERG that was
4 done in July of '90?

5 A. No, because as I said, I've never seen that ECG.

6 Q. Did you ever talk to her about her seeing
7 Kaitlin?

8 A. No.

9 Q. I take it then you've never seen her records
10 either?

11 A. No.

12 Q. How often do you currently see Kaitlin?

13 A. February 7, '92, the recommended follow-up was
14 one year. I think I have seen her on two other
15 occasions.

16 August 5, '91, recommended follow-up
17 six months; April 9, '91, for a visit when she wasn't
18 feeling well. No specific follow-up indicated.

19 Q. You have seen her a total of three times then.

20 A. As her pediatric cardiologist, I have seen her
21 at heart functions that we have had in the heart
22 mended heart support group.

23 Q. What is that?

24 A. It's a parents group for children who have heart
25 problems. I think I've seen her either twice or three

1 times outside of the hospital at functions of that
2 type.

3 Q On the three visits that you saw her as her
4 treating doctor,. what treatment did you give?

5 A. Take a history, did a physical examination. On
6 February 7 she had an electrocardiogram and
7 echocardiogram, and I discussed her hematocrit with
8 her. I believe I called Dr. Gerardo, her
9 pediatrician, talked about her hematocrit, and then
10 chatted with her family.

11 We did a -- we also did a blood count
12 at that time.

13 Do you want to go through the other
14 visits?

15 Q. Yeah, please,

16 A. August 5, I took a history, did a physical
17 examination --

18 MR. SEIBEL: 1991?

19 A. August, 1991, pulse oximetry, ECG, and
20 discussion with the family and undoubtedly with her
21 referring -- with her pediatrician.

22 And I saw her on April 9, 1991, I
23 believe at R B & C instead of at outpatient offices,
24 did a physical examination, a chest x-ray, blood
25 count, pulse oximetry, we did some counseling about

1 whether or not she had pneumonia. I thought she had a
2 respiratory illness, but not pneumonia, and we
3 discharged her to home.

4 Those were my three visits.

5 Q. How was her heart when you saw her in February
6 of '92?

7 A. I said I am very pleased with Kaitlin's progress
8 of the last year. She has a stable level of cyanosis
9 and good ventricular function, I discussed with
10 Mrs. Stevens the relatively unique nature of Kaitlin's
11 situation and reasons why we feel that surgery is not
12 appropriate for her, recommended SB prophylaxis, and
13 no other restrictions or medications, and I thought
14 that her hematocrit of 44 probably meant on a
15 day in/day out basis, saturation was reasonably good.
16 I suggested follow-up in one year, so I thought she
17 was doing well.

18 The concept, as you know, of "Doing
19 well" from a pediatric cardiologist's standpoint is
20 where would I expect this patient to be at this time,
21 and my assessment was that she was doing well, and I
22 was pleased with her progress, that she was meeting my
23 expectation.

24 Q. You mean that she was doing well for somebody
25 with Eisenmenger's?

1 A. That I expect that she not have any problems at
2 this time.

3 You have to be very careful because
4 sometimes for children who have heart problems that
5 are known that are not repaired, if you are cavalier
6 about saying they're doing well, then sometimes the
7 parents misunderstand you, think you don't understand
8 their problem. That's the only reason I went into
9 that.

10 Q. What is right ventricular impulse?

11 A. That's when you can feel the right ventricle
12 here over the chest,

13 I'm pointing to the area at the bottom
14 of my breastbone.

15 Q. Is that a normal finding?

16 A. That's in general not a normal finding.

17 Q. What's an early systolic ejection click?

18 A. That's any sound that you hear after the first
19 heart sound,

20 Q. What's the significance of that sound?

21 A. Usually comes from children who have abnormal
22 aortic or pulmonary valves, and we occasionally see it
23 in children who have just simply enlarged aortas, or
24 enlarged pulmonary arteries, especially if there is
25 pulmonary hypertension. It is something that may well

1 develop over time.

2 Q. Is that a normal or abnormal finding?

3 A. It is -- it is an abnormal finding. It would be
4 abnormal finding in somebody who you thought was
5 normal.

6 It's a not unexpected finding in
7 somebody with Kaitlin's heart problem at this stage
8 with her physiology.

9 Q. What's a Grade II/6 vibratory systolic ejection?

10 A. That means you can hear a sound between the
11 heart sounds, and the two out of six refers to the
12 intensity, the vibratory refers to the kind of
13 auditory tones that you hear, and the systolic
14 ejection murmur means that it meets the criteria of
15 sound where a crescendo/decrescendo murmur builds up,
16 then does down.

17 Q. Is that a normal or abnormal finding?

18 A. That would typically be described as a normal
19 finding. If a medical student said to me,
20 "Dr. Zahka, I have Grade II over 6 vibratory systolic
21 ejection murmur," then I would say that would be
22 compatible with me with normal blood flow in a normal
23 child.

24 Q. The liver being palpable, would that be a normal
25 or abnormal finding?

1 A. How big does it say it was?

2 Q. Well, liver is palpable one centimeter below the
3 costal margin.

4 A. That's normal.

5 Q. What did you mean by the relatively -- that you
6 discussed with Mrs. Stevens the relatively unique
7 nature of Kaitlin's situation?

8 A. Well, we talked, was that I thought that it
9 was -- it was very, very, very unusual for her to have
10 the extent of Eisenmenger's, and specifically the
11 anatomical changes in the blood vessels at the age of
12 20 months, and that her presentation with what I
13 assumed had been very high vascular resistance right
14 from the very beginning, so that she didn't have any
15 of the much more typical findings of the AV canal;
16 must have been present from the very beginning.

17 And I shared with her that we do see
18 occasionally children like this, and in years past
19 they were unfortunately much, inuch more common than
20 they are today, but there is -- still are occasional
21 children like Kaitlin who come up.

22 Q. Were they more common in years before that
23 because of the lack of screening?

24 A. Again, unfortunately, I think right now
25 screening is still not something that is done. I

1 mean, screening by echocardiography is, from what I
2 can see, not being done. Everybody, whether it's your
3 child, my child, normal child, everybody gets a
4 physical exam which hopefully picks up the clues to
5 the underlying heart defect, sometimes those clues are
6 very subtle and sometimes they are easy.

7 The easy clues are the loud murmurs;
8 most common cause for a referral to the cardiologist,
9 loud murmur. I wish I can say that single second
10 heart sounds, early systolic ejection clicks
11 represented referring complaints to the pediatric
12 cardiologist, because that would mean that the
13 pediatricians could really pick up on single second
14 heart sound clicks and right ventricular impulses.

15 I can't remember a child in my
16 15 years of practice, or whatever it's been, where the
17 pediatrician said, "Dr. Zahka, I am concerned about
18 the single second heart sound here."

19 That's in contrast to what hundreds of
20 thousands of patients I have seen, where the
21 pediatrician says "I am concerned about this heart
22 murmur," and that's in particular why I stress the ECG
23 and echocardiography screening of children with Down
24 syndrome, because I think it's an imprecise, the
25 physical exam is an imprecise art, even in my hands.

1 Q. So screening is something that you think should
2 be done in these children?

3 A. I said it in public and I say it here, not
4 everybody agrees with me however. You know why,
5 because they say it's expensive. Welcome to medicine.

6 Q. Is failure to thrive a clue to heart defect?

7 A. Some children who have heart defects have
8 failure to thrive. It's usually the ones who have
9 more dramatic physical findings.

10 It's pretty unusual for me to get a
11 referral for failure to thrive where it really wasn't
12 obvious that the child had a heart defect.

13 Nothing is impossible, but it's pretty
14 unusual that primary referral is failure to thrive.

15 Q. My question was: Is that a clue for the
16 pediatrician that there may be a potential heart
17 defect?

18 A. And I will answer it the same way I answered it:
19 Based on my experience of referrals, children who have
20 failure to thrive because of their heart disease, in
21 general they are -- they have the symptoms and signs
2% of the heart defect, not the -- it's not just the
23 failure to thrive.

24 Q. What other symptoms would they have?

25 A. usually fatigue intolerance, very rapid and

1 difficult breathing, those are the symptoms.

2 The signs are loud murmurs, and the
3 pediatric cardiologist, as we have talked about would
4 talk about precordial hyperactivity, enlarged livers,
5 single second heart sounds.

6 MR. MELLINO: Let's take a
7 couple minute break.

8 - - - - -

9 (Recess had.)

10 - - . . . - -

11 MR. MELLINO: Doctor, I don't
12 have any other questions for you.

13 MR. GARDNER: No questions.

14 MR. JACKSON: I don't have any
15 questions at this time.

16 MR. SEIBEL: Be's going to read
17 it. We won't waive at this point.

18 Can we have a 28 day waiver rather
19 than seven?

20 MR. MELLINO: Yes,

21 MR. SEIBEL: We will get copies
22 of the Doctor's chart to everybody in due course,

23 - - - - -

24 (Deposition concluded; signature not waived.)

25 - - - - -

ERRATA SHEET

PAGE

LINE

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

I have read the foregoing transcript
and the same is true and accurate.

KENNETH ZAHKA

1 The State of Ohio, :

2 County of Cuyahoga.:

CERTIFICATE:

3 I, Frank P. Versagi, Registered Professional
4 Reporter, a Certified Legal Video Specialist, Notary
5 Public within and for the State of Ohio, do hereby
6 certify that the within named witness,
7 KENNETH ZAHKA, M.D., was by me first duly sworn to
8 testify the truth in the cause aforesaid; that the
9 testimony then given was reduced by me to stenotypy in
10 the presence of said witness, subsequently transcribed
11 onto a computer under my direction, and that the
12 foregoing is a true and correct transcript of the
13 testimony so given as aforesaid. I do further certify
14 that this deposition was taken at the time and place
15 as specified in the foregoing caption, and that I am
16 not a relative, counsel, or attorney of either party,
17 or otherwise interested in the outcome of this action.
18 IN WITNESS WHEREOF, I have hereunto set my hand and
19 affixed my seal of office at Cleveland, Ohio, this
20 10th day of June, 1992.

21
22 

23 Frank P. Versagi, Registered Professional Reporter,
24 a Certified Legal Video Specialist, Notary
25 Public/State of Ohio. Commission expiration: 2-25-93