

UNITED STATES COURT OF FEDERAL CLAIMS

THERESA CEDILLO AND MICHAEL)
CEDILLO, AS PARENTS AND)
NATURAL GUARDIANS OF)
MICHELLE CEDILLO,)
)
Petitioners,)
)
v.) Docket No.: 98-916V
)
SECRETARY OF HEALTH AND)
HUMAN SERVICES,)
)
Respondent.)

REVISED AND CORRECTED COPY

Pages: 299 through 575
Place: Washington, D.C.
Date: June 12, 2007

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IN THE UNITED STATES COURT OF FEDERAL CLAIMS

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NATURAL GUARDIANS OF)
MICHELLE CEDILLO,)

Petitioners,)

v.)

Docket No.: 98-916V

SECRETARY OF HEALTH AND)
HUMAN SERVICES,)

Respondent.)

Ceremonial Courtroom
National Courts Building
717 Madison Place NW
Washington, D.C.

Tuesday,
June 12, 2007

The parties met, pursuant to notice of the
Court, at 9:02 a.m.

BEFORE: HONORABLE GEORGE L. HASTINGS, JR.
HONORABLE PATRICIA CAMPBELL-SMITH
HONORABLE DENISE VOWELL
Special Masters

APPEARANCES:

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C O N T E N T S

WITNESSES:	DIRECT	CROSS	REDIRECT	RECROSS	VOIR DIRE
For the Petitioners:					
Theresa Cedillo	306	378	--	--	--
Arthur Krigsman	408	491	556	--	--

E X H I B I T S

PETITIONERS' EXHIBITS:	IDENTIFIED	RECEIVED	DESCRIPTION
1	478	--	Dr. Aposhian's presentation
2	478	--	Dr. Krigsman's presentation
3	478	--	Poster presentation on autism
4	478	--	Calendar
5	567	567	Document entitled "Autism Speaks Hosts Gastroenterology Workshop"
6	569	569	Dear Doctor letter

E X H I B I T S

RESPONDENT'S EXHIBITS:	IDENTIFIED	RECEIVED	DESCRIPTION
1	573	573	Pages from the Thoughtful House website
2	573	573	Minutes regarding licensure in Texas

1 P R O C E E D I N G S

2 (9:02 a.m.)

3 SPECIAL MASTER HASTINGS: Let's come to
4 order this morning. Good morning to all, and thank
5 you for being here.

6 We're here for the second day of the Cedillo
7 hearing, and where we left off yesterday was during
8 the middle of Mrs. Cedillo's testimony.

9 Before we start with her, I just want to
10 advise counsel and witnesses today we did understand
11 that a number of the people listening in were having
12 trouble hearing, so I really want to stress to counsel
13 and witnesses to speak as loudly as you can into the
14 microphones.

15 I'm told nearly 750 people were listening in
16 at some point yesterday, different phone connections,
17 so it's very important that they can hear what we're
18 saying so please do speak up so everyone listening at
19 home can hear as well.

20 With that, Ms. Chin-Caplan, did you want to
21 start in with Ms. Cedillo again?

22 MS. CHIN-CAPLAN: Could we just have about
23 five minutes? We're having a little trouble with the
24 video here.

25 SPECIAL MASTER HASTINGS: All right.

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1 MS. CHIN-CAPLAN: If we cannot restore the
2 sound I'm just going to bring Mrs. Cedillo back for a
3 little bit, but unfortunately we'll have to go with
4 the unedited version of the DVDs, and we'll fast
5 forward through certain scenes.

6 SPECIAL MASTER HASTINGS: All right. For
7 those of you at home, we'll be having about a five
8 minute delay here before we start.

9 (Pause.)

10 MS. CHIN-CAPLAN: Special Master?

11 SPECIAL MASTER HASTINGS: Yes?

12 MS. CHIN-CAPLAN: We are ready to resume.
13 What I would like to do would be to bring back Mrs.
14 Cedillo for a very brief direct.

15 SPECIAL MASTER HASTINGS: All right.

16 MS. CHIN-CAPLAN: Then we're going to run
17 the video.

18 SPECIAL MASTER HASTINGS: All right. Ms.
19 Cedillo, please take the witness stand. You've
20 already been sworn yesterday, so please take a seat.

21 Whereupon,

22 THERESA CEDILLO

23 having been previously duly sworn, was
24 recalled as a witness herein and was examined and
25 testified further as follows:

CEDILLO - DIRECT

1 THE WITNESS: Can you hear me? Can you hear
2 me okay?

3 SPECIAL MASTER HASTINGS: I believe so.

4 THE WITNESS: Okay.

5 SPECIAL MASTER HASTINGS: Thank you again
6 for being with us.

7 Ms. Chin-Caplan, please go ahead.

8 MS. CHIN-CAPLAN: Thank you, Special Master.

9 DIRECT EXAMINATION RESUMED

10 BY MS. CHIN-CAPLAN:

11 Q Mrs. Cedillo, yesterday we were discussing
12 Michelle's inflammatory bowel disease. Is she
13 currently under treatment for her inflammatory bowel
14 disease?

15 A Yes, she is.

16 Q And who is treating Michelle's inflammatory
17 bowel disease?

18 A Dr. David Ziring at UCLA Children's
19 Hospital.

20 Q When did you start to consult with Dr.
21 Ziring?

22 A In November of 2006.

23 Q And when you first saw Dr. Ziring, what did
24 he tell you?

25 A He told me that Michelle was very sick.

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CEDILLO - DIRECT

1 The first treatment - Actually, the first time he saw
2 her he wanted her to begin anti-TNF therapy.

3 Q And do you know what TNF stands for?

4 A Tumor necrosis factor, so it would be an
5 antitumor necrosis factor therapy.

6 Q And did he tell you what the purpose of this
7 anti-TNF therapy was?

8 A It is to control the bowel inflammation, and
9 he had hoped it would also control the secondary
10 arthritis and eye problems, uveitis.

11 Q So was it your impression that when Dr.
12 Ziring saw Michelle he believed that her arthritis and
13 her eye problems were related to her inflammatory
14 bowel disease?

15 A Yes.

16 Q And did Michelle subsequently start this
17 anti-TNF therapy?

18 A Yes, she did.

19 Q Does it have a particular name?

20 A Humira. Humira injections.

21 Q And you said it was injections?

22 A Yes.

23 Q Who administers the injections?

24 A I had to be trained to administer them
25 myself.

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CEDILLO - DIRECT

1 Q And did you learn how to administer these
2 injections?

3 A I did, yes.

4 Q Where did that occur?

5 A That occurred at UCLA Medical Center.

6 Q And when did you go to learn how to
7 administer this?

8 A That was about three weeks ago. I'd have to
9 look at a calendar to give you the exact date, but
10 approximately three weeks ago.

11 Q And at that time did Michelle receive her
12 anti-TNF therapy?

13 A Yes, she did.

14 Q So she received her first dose at UCLA?

15 A She received her first dose. It's called
16 the Crohn's starter pack.

17 Q And when they told you that they wanted to
18 start her on Humira did they tell you what the
19 potential side effects of Humira could be?

20 A Yes, they did.

21 Q And what did they tell you?

22 A The most - uh - Well, the one they talked
23 about the most is there is a potential to develop
24 cancer, and if I'm saying it right I think it's
25 lymphoma. In the studies it was seen in adolescent girls.

CEDILLO - DIRECT

1 However, Dr. Ziring said that the children
2 that were more likely to get it were also on another
3 immunosuppressant, so to try to offset that risk at
4 the time we decided to make sure that she was only on
5 the one immunosuppressant, which would be Humira.

6 Q Is she taking any other bowel medications
7 right now?

8 A Yes, she is.

9 Q And what else is she taking?

10 A She's taking Prevacid for GERD and then
11 Sulfasalazine.

12 Q For her bowels?

13 A For the bowels.

14 Q How many treatments has Michelle undergone?

15 A How many treatments?

16 Q Treatments of Humira.

17 A Okay. She's had two. They're every two
18 weeks.

19 Q And is there a set schedule that you
20 administer the Humira? Is that it?

21 A Yes. It's every two weeks. You began with
22 the higher dose. Then the second dose is half of the
23 first, and then the subsequent doses are half of that
24 one.

25 Q And at some point in time do they believe

CEDILLO - DIRECT

1 that this therapy is going to end?

2 A I've not been told an ending point. I think
3 it depends on the response time. I'm sorry. It
4 depends on her response, and then if she continues to
5 show a positive response or if she plateaus. I mean,
6 it could be indefinitely or unless she were to have a
7 side effect.

8 Q And have you spoken or seen Dr. Ziring since
9 you began the Humira?

10 A Yes, I have.

11 Q And did he indicate anything about the
12 treatment at all?

13 A Yes, he did.

14 Q What did he say to you?

15 A I'm quoting from memory. It may not be the
16 exact words, but he said something like that he was
17 amazed by her response to the Humira from her most
18 recent labs, which were taken a week after she had
19 started it, compared that to previous labwork that was
20 taken three weeks prior to that, and he hoped that she
21 would continue to respond in this manner.

22 Q Now, you indicated that he was happy with
23 the improvement in her labwork.

24 A Yes.

25 Q Did you notice any change in Michelle's

CEDILLO - DIRECT

1 clinical condition?

2 A Yes. At home she began making very formed
3 stools, as opposed to loose or loosely formed stools,
4 and that was the first.

5 She also seemed to walk with a little more
6 ease, but that's something we need to gauge with a
7 little more observance.

8 Q Okay. Now, Dr. Ziring is Michelle's current
9 GI physician, correct?

10 A Yes, he is.

11 Q Who is Michelle's current rheumatology
12 person, the person who sees her for her arthritis?

13 A The last one that she saw is Dr. Ilona Szer
14 at San Diego Children's Hospital.

15 We were thinking of doing a consult with the
16 one that works with Dr. Ziring because it's easier
17 with two doctors that work together, but that was her
18 previous rheumatologist or last seen. I guess she's
19 still current. I don't know how you put that.

20 Q Now, when did you first start seeing Dr. --
21 I'm sorry. I missed the name.

22 A Dr. Szer or which?

23 Q The current rheumatologist.

24 SPECIAL MASTER HASTINGS: Both counsel and
25 the witness, speak up a little bit more.

CEDILLO - DIRECT

1 THE WITNESS: Even more? Okay. Okay.

2 BY MS. CHIN-CAPLAN:

3 Q The current rheumatologist. When did you
4 begin to see him?

5 A Okay. We saw her in I believe it was March
6 of 2006 for the current one.

7 Q And at the time that you saw her, what was
8 Michelle's arthritis like?

9 A I mean, to me it was moderate. I would say
10 moderate to moderate-severe.

11 Q And when you say moderate to moderate-
12 severe, what do you mean by that?

13 A Okay. She still had trouble. Her left
14 ankle, I don't know the right medical term, but it was
15 kind of like locked in place. She couldn't flex it
16 down. It was still that way. She had some slight
17 swelling in her ankle, the left one.

18 She was sore to move or lift her back, and I
19 believe at that point, or it might have been at a
20 previous doctor's appointment, they said they felt
21 that her hands, the joints in her hands, were
22 affected.

23 I'm just talking from memory. It was close
24 to that timeframe. If it wasn't her, it was another
25 doctor that had mentioned about her hands.

CEDILLO - DIRECT

1 Q And was any treatment ordered for the
2 arthritis at all?

3 A She deferred to the GI doctor to order. She
4 thought she should be put back immediately on
5 Remicade.

6 Q So she had been on Remicade?

7 A She had been on Remicade previously before
8 she broke her leg.

9 Q And is Remicade also an anti-TNF agent?

10 A Yes, it is.

11 Q When was she on the Remicade?

12 A She began in June of 2004.

13 Q And who started her on the Remicade?

14 A It was two doctors consulted about it. It
15 was Dr. Robert Sheets, who works with Dr. Szer at San
16 Diego Children's Hospital, and Dr. Arthur Krigsman.

17 Q And at the time that they ordered the
18 Remicade, what was Michelle's response to the
19 Remicade?

20 A She responded very well. She was steroid
21 dependent prior to the Remicade. And she was able --
22 Without the steroids, she had chronic diarrhea and
23 could not -- well, she was to the point of having to
24 crawl instead of walk with the arthritis part of it.

25 Q To get a clear picture of the treatment for

CEDILLO - DIRECT

1 her inflammatory bowel disease still, I'm going to ask
2 you to go back to when she first began treatment for
3 her inflammatory bowel disease.

4 A Okay.

5 Q Who was the first person who ordered
6 treatment for her inflammatory bowel disease?

7 A Okay. Not counting the GERD?

8 Q Well, let's start with the GERD. Could you
9 just tell the Court what GERD is?

10 A I'm sorry. It's gastroesophageal reflux
11 disease.

12 Q And when was that first noticed?

13 A That was first noticed in June of 2000.

14 Q And who noticed that?

15 A That was Dr. Ramon Montes.

16 Q And was that when Dr. Montes did one of his
17 endoscopies?

18 A Yes, the upper endoscopy.

19 Q And do you recall what that endoscopy
20 revealed?

21 A Yes, I do. That showed an ulcerated
22 esophagus, a Grade III ulcerated esophagus, which is
23 the worst grade. There's Grade I, II and III,
24 according to what I understand.

25 Q And you said it was ulcerated?

CEDILLO - DIRECT

1 A Yes.

2 Q Was it ulcerated in a particular area?

3 A I believe it was the entire or close to the
4 entire esophagus.

5 Q And earlier you had mentioned that Michelle
6 would hit herself in the chest.

7 Did anybody tell you whether there was any
8 correlation between striking herself in the chest and
9 the ulcerations that were seen in her esophagus?

10 A Yes.

11 Q Who made that correlation for you?

12 A Dr. Montes did.

13 Q And after Dr. Montes did this endoscopy he
14 ordered some medication for Michelle, didn't he?

15 A Yes, he did.

16 Q What medication did he order?

17 A He ordered Prilosec.

18 Q And did the Prilosec help Michelle's
19 symptoms?

20 A Yes, it did.

21 Q How did it help?

22 A The hitting on the chest disappeared. She
23 seemed happier. She was able -- She vomited less
24 frequently.

25 Q And did it affect her stools at all?

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1 A Not really. She still continued to have

CEDILLO - DIRECT

1 diarrhea.

2 Q And after that Dr. Montes continued in her
3 care? Was that it?

4 A He did continue for probably about a year
5 and a half after that.

6 Q And after the Prilosec what did Dr. Montes
7 do next?

8 A The next procedure was an upper and lower
9 endoscopy.

10 Q And when did that occur?

11 A That was in January of 2002.

12 Q And do you know what the results of that
13 endoscopy was?

14 A Yes. She was diagnosed with lymphoid
15 nodular hyperplasia and I believe colitis. I'm not
16 for certain if that was written on the actual
17 diagnosis, but in other subsequent paperwork it listed
18 colitis.

19 Q And did Dr. Montes order any treatment for
20 Michelle at that time?

21 A He did. He ordered Pentasa.

22 Q And were you able to administer the Pentasa
23 to Michelle?

24 A We tried pulling the capsules apart, but it
25 was very difficult. She required a large number of

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CEDILLO - DIRECT

1 capsules per day, so it was hard to get the tiny beads
2 in the amount of food she was eating three times a
3 day.

4 Q At some point in time did you stop the
5 Pentasa?

6 A Yes, we did.

7 Q Was any other medication ordered for
8 Michelle at that time?

9 A I believe there was a four-day course of
10 Solu-Medrol or a similar injectable form of
11 Prednisone, but I can't remember the date. I think
12 that was the final medic--. I mean, no further
13 medication after that.

14 Q You indicated Solu-Medrol, and then Michelle
15 went on Prednisone? Was that it?

16 A No. Just the injections.

17 Q Just the injections. So after the
18 injections that would still be in roughly 2002?

19 A I believe it was prior to that. Well, let
20 me see. No, it would be 2002. Right, because that
21 was the year of the colonoscopy. Right.

22 Q So from that period of time after the Solu-
23 Medrol, how long was Michelle -- was Michelle's
24 inflammatory bowel disease treated?

25 A No, not other than the Prilosec.

CEDILLO - DIRECT

1 Q And when was the next time somebody ordered
2 an anti-inflammatory agent for Michelle's bowel
3 disease?

4 A That would be in 2003.

5 Q And so how long between the administration
6 of the Solu-Medrol and the next time somebody ordered
7 anti-inflammatory medications for Michelle was she not
8 receiving anything for her bowel disease?

9 A That would be probably close to a 12-month
10 period. I'm guessing that the Solu-Medrol was in May
11 or am approximating was in May of 2002, and I believe
12 it was all the way until July of 2003 before she began
13 receiving anti-inflammatory medications for the bowel.

14 Q And during that approximately one year what
15 was Michelle's GI symptoms like?

16 A They worsened to a great degree. She had
17 very severe problems.

18 Q Can you describe to the Court what those
19 severe problems were?

20 A She had chronic chronic loose stools,
21 chronic diarrhea, many, many bowel movements, up to
22 sometimes 12 in one day.

23 She was drinking a lot of fluids and not
24 wanting to eat. Then she began -- it began like a
25 progression where she was able to eat and drink a

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1 little bit, but

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1 then she quit drinking -- I mean quit eating and then
2 just started drinking more fluids, which is what led
3 her to have to be in the hospital later.

4 She got to the point where she would not
5 drink either, and then she was no longer able to stay
6 awake. She wasn't getting anything in her, and she
7 did not have a feeding tube at this point.

8 Q What did you do when Michelle stopped eating
9 and drinking?

10 A I asked that she -- well, I took her to the
11 ER in I think it was in late May of 2003, and she was
12 admitted for dehydration, and she actually had a
13 urinary tract infection at that point.

14 Q And did they tell you what the cause of the
15 urinary tract infection was?

16 A It related to dehydration. She was not
17 taking enough fluids in.

18 Q When they discharged her from the hospital,
19 what did they tell you to do?

20 A Well, she was on antibiotics. She had
21 received IV antibiotics I think at that point, and I
22 believe when we took her home -- she was in probably
23 five to seven days -- we had a few more antibiotics,
24 but given via an injection because I knew she wouldn't
25 take it by mouth.

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CEDILLO - DIRECT

1 I think it was about five to seven days in
2 the hospital and then maybe three more days after that
3 with injections at the pediatrician's office, and then
4 I was supposed to increase her fluids, you know, which
5 I tried to, fluids by mouth.

6 Q And that was solely for her urinary tract
7 infection?

8 A At that point, it was. They um, they also
9 um, had asked that Well, at that point, they tried to
10 get her transferred to Phoenix Children's Hospital to
11 have her bowel disease treated.

12 Q You say they tried. Were they unsuccessful?

13 A Yes, the ER doctor was unsuccessful.

14 Q How was the ER doctor unable to transfer
15 Michelle?

16 A She called her gastroenterologist at the
17 time and asked. She said she believed that the child
18 needed GI treatment, so she asked that she be
19 transferred from our Yuma hospital, which is a small,
20 nonpediatric hospital, to the Phoenix Children's
21 Hospital, but the treating GI doctor at that time did
22 not want to, I don't know what the term is, accept her
23 or have her admitted there. I don't know the medical
24 term.

25 Q And did anybody indicate to you what the

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1 reason was that the GI doctor would not accept the

CEDILLO - DIRECT

1 transfer?

2 A It's not in writing, but he told me that he
3 felt that he was a specialist, he was very busy and
4 that this was a general pediatrics problem. He was
5 busy.

6 Q So Yuma admitted Michelle and they treated
7 her dehydration. Is that it?

8 A That's correct.

9 Q And they ordered antibiotics for her urinary
10 tract infection?

11 A Yes.

12 Q And did they treat her bowel disease at all?

13 A They might have given her IV Zantac, but I
14 don't believe there was any other. I'd have to look.
15 I don't think there was any other bowel treatment
16 given.

17 Q Okay. And after she was discharged you took
18 her on three consecutive days for IM antibiotics? Is
19 that it? For shots?

20 A Yes, approximately three. Seven, eight,
21 nine, 10. I'm thinking it was a 10-day course.

22 Q And did you discuss this fact with your
23 pediatrician that Michelle had bowel disease and it
24 wasn't being treated?

25 A I did loosely, but they're not GI

CEDILLO - DIRECT

1 specialists. Michelle is a very complicated patient,
2 and they deal mostly in general pediatrics. They had
3 offered if I needed help with any referrals, but their
4 knowledge in her particular GI problems I would say is
5 limited.

6 I don't mean that as an insult because
7 they've worked very well with me and with Michelle,
8 but they were just telling the truth; that they were
9 not equipped to deal with her bowel disease. They
10 felt it was too complicated.

11 Q So what did you do then?

12 A After that I remembered that I had seen Dr.
13 Krigsman, met him at a DAN! conference, so I contacted
14 him regarding treatment because I knew it was a
15 serious problem.

16 Q And did you have a conversation with Dr.
17 Krigsman?

18 A I did, yes.

19 Q And did he agree to consult with you?

20 A Yes, he did.

21 Q Prior to your visit with Dr. Krigsman did he
22 order a workup at all?

23 A Yes, he did.

24 Q And now we're in roughly May of 2003?

25 A Probably late May/early June. Probably

CEDILLO - DIRECT

1 early June now.

2 Q When did you see Dr. Krigsman?

3 A We were unable to see him until September of
4 2003.

5 Q And how was Michelle between May 2003 and --
6 2003?

7 A Yes.

8 Q And the time that you visited Dr. Krigsman
9 in September.

10 A September 2003. During that time her health
11 actually declined greatly. We were planning to go
12 earlier. We were unable to because she had to be
13 hospitalized for 18 days.

14 Q And when was that hospitalization?

15 A That was July 26 through approximately
16 August 8.

17 Q And you said she was hospitalized for 18
18 days?

19 A Yes. Maybe I didn't count right. It was
20 late July -- it was 18 days; I'd have to look at a
21 calendar -- to August.

22 Q What did they do during this
23 hospitalization?

24 A Michelle was very sick. She was
25 malnourished. She was dehydrated again. She was

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CEDILLO - DIRECT

1 unable to stay awake. This is when she had the eye
2 problems that I referred to yesterday.

3 During that time she had a nasogastric tube
4 placed for nutrition. She was so malnourished and so
5 sick that 25 ccs, which is a very small amount, she
6 could barely tolerate, a 25 cc drip of nutrition, of
7 formula into her stomach. She started to vomit, so
8 they had to back off and start at five ccs at a time.

9 Once she had some strength to her, which
10 actually was I think about a two-week period, maybe
11 was a little bit less, they placed a jejunal feeding
12 tube, and then from there we started with the --
13 that's how they started to treat her to get her
14 nutritional status back to a more stable state.

15 She was treated with I think IV Zantac and
16 Prednisone or Prednisolone, and then I believe she
17 might have been on another anti-inflammatory for the
18 bowel, but I can't recall. It might have been
19 something like Azulfidine. I'm not sure.

20 Q So at this hospitalization the doctors who
21 admitted her started treatment for her inflammatory
22 bowel disease, as well as tried to feed her? Was that
23 it?

24 A That's correct.

25 Q Now, Michelle was in there for 18 days you

CEDILLO - DIRECT

1 indicated?

2 A Yes.

3 Q So at the end of the 18 days that brings us
4 to roughly mid September? Is that it?

5 A It would be from July 26 to 18 days later,
6 so it was like probably the middle of August.

7 Q How soon after that did you go see Dr.
8 Krigsman?

9 A Approximately a month later.

10 Q When you travel with Michelle, how do you
11 travel with her?

12 A For her own comfort, we have to kind of
13 replicate her room or what is a comfortable setting
14 for her, so we either ship ahead or at that time we
15 traveled with her favorite toys. At that point she
16 was not in a hospital bed, so we didn't have to worry
17 about getting that set up.

18 We travel with her favorite things. We had
19 to take her feeding pump, her nutrition, all her
20 medications because the nutrition has to be mixed
21 fresh every day. It's only good for 24 hours, so we
22 had to travel with cans of this nutrition, her feeding
23 pump, the bags, diapers, pads, wipes and everything,
24 the syringes for her feeding tube to give her the
25 medication.

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1 For her sake so that it's not so hard for
2 her we usually lightly sedate her as recommended by a
3 physician. At that time it was a general
4 pediatrician. Now we go by the recommendation of her
5 neurologist.

6 Q So when you flew Texas -- uh to New York,
7 because that's where Dr. Krigsman is located?

8 A Yes.

9 Q You packed up everything that you needed to
10 care for her?

11 A Yes.

12 Q And you shipped it to New York first?

13 A Yes.

14 Q And then you brought all the things that
15 would resemble her room with you?

16 A Yes.

17 Q And you had to medicate her?

18 A Yes.

19 Q How was she on the flight?

20 A She was okay on that one. She slept. She
21 slept most of it.

22 Q Now, you saw Dr. Krigsman at the end of
23 September?

24 A Yes.

25 Q What did Dr. Krigsman do?

CEDILLO - DIRECT

1 A He did an upper and lower endoscopy,
2 colonoscopy.

3 Q And did he tell you what the results of
4 those procedures were?

5 A Yes, he did.

6 Q And what did he say?

7 A He said that she had lymphoid nodular
8 hyperplasia. He saw ulcers. I can't remember the
9 exact place where. I just can't remember. I know he
10 told me where, but I can't remember at the moment.

11 He said she was very, very sick and was very
12 sick with inflammatory bowel disease.

13 Q And did Dr. Krigsman order some treatment
14 for her?

15 A Yes, he did.

16 Q What treatment did Dr. Krigsman order?

17 A He ordered anti-inflammatories for the
18 bowel, 6-MP, 6-Mercaptopurine called for short 6-MP,
19 and Azulfidine and Prednisolone.

20 Q And how was Michelle after the treatment
21 began?

22 A After the treatment began, I would say maybe
23 a two to three week period after she began having
24 formed stools again, and the arthritis was I guess you
25 could say less noticeable.

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1 Let me say it was easier for her to get
2 around. It was still noticeable, but easier for her
3 to move around.

4 Q And at some point in time -- Michelle didn't
5 stay permanently on the Prednisone?

6 A No. We tried several times to wean her off
7 of the Prednisone.

8 Q And were you successful?

9 A No, we were not.

10 Q So when you were unable to wean Michelle off
11 the Prednisone, what happened then?

12 A Well, we weaned her off. I mean, like say
13 she was on like a two-week course, for example, and
14 then when we got it down to where we could stop it
15 completely probably within a week's time she was
16 limping, it was very difficult for her to walk, and
17 then she had the chronic diarrhea again.

18 Q So after she was weaned off the Prednisone
19 was other medicine, other anti-inflammatory
20 medication, ordered for her?

21 A The same. I think we tried Pentasa, but we
22 couldn't get the beads in the feeding tube and you
23 can't crush it, so we were back with Azulfidine and
24 6-MP.

25 Q And all this went into Michelle's tube?

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1 A Yes. Even today all her medications except
2 for the injection are given in the tube.

3 Q You didn't have a hard time crushing it fine
4 enough to get through the tube?

5 A Well, we had to find the right pill pressure
6 and kind of work with it, figure out how to dissolve
7 it and learn. I was trained on how to flush the tube
8 properly and how much water to give, that kind of
9 thing.

10 Q And were there problems with the feeding
11 tube at all?

12 A There was a few problems. A couple of times
13 it became clogged and one time it became dislodged and
14 a different kind had to be placed, but for the most
15 part especially after it gets clogged you kind of
16 learn how to be diligent about how to keep it from
17 doing that because that requires a trip to the ER,
18 which is something we try to avoid.

19 Q You say that when it gets clogged it
20 requires a trip to the ER. What does the ER do?

21 A Well, if they can't open the tube like if
22 it's clogged say with medication then they would have
23 to replace it, which it's not a surgery, but it's
24 still a procedure, which would be very uncomfortable
25 for her.

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1 Q And did Michelle have to have her tube
2 replaced at some time?

3 A The one that became dislodged. She had to
4 have that one replaced, and she has to now have it
5 replaced every six months.

6 Q When she has the tube replaced, you
7 indicated that it's a procedure.

8 A Yes, it is.

9 Q What type of procedure is it? Where is it
10 done?

11 A It's done in the Interventional Radiation --
12 Radiology Department at our hospital.

13 Q And is Michelle able to cooperate with this
14 procedure?

15 A She's sedated with Versed and I believe it's
16 Fentanyl so that it's easier for her, not as traumatic
17 and so she can be completely still.

18 Q So there's an anesthesiologist present for
19 these feeding tube changes as well?

20 A Yes.

21 Q And how many times has she had it changed to
22 date?

23 A To date? Let's see. She's had it -- It's
24 every six months. I have to count. It's September
25 2003, 2004, 2005, 2006, 2007. So I'm guessing --

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1 That's four years. It's twice a year.

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1 She's probably had it changed eight times.

2 A And each time she has it changed anesthesia
3 has to give her Versed and Fentanyl?

4 A Yes.

5 Q And then somebody has to watch her while she
6 comes out of anesthesia?

7 A Yes.

8 Q So a tube change for you would be the better
9 part of a day?

10 A Oh, yes. Yes, it would.

11 Q Mrs. Cedillo, after you saw Dr. Kringsman and
12 he ordered the Prednisone you indicated that you tried
13 to wean her off and her symptoms would recur.

14 A Yes.

15 Q When you said that her symptoms recurred,
16 you noticed it first by the fact that she had more
17 difficulty walking?

18 A Yes, and diarrhea.

19 Q And diarrhea.

20 A The diarrhea would come first. I mean, that
21 would be immediate, and then the walking would be a
22 little bit -- you know, the limping would return.

23 Q So did Michelle have to go on Prednisone
24 repeatedly?

25 A Yes, she did.

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1 Q At some point in time did she develop any
2 side effects associated with the Prednisone?

3 A She had a lot of weight gain.

4 Q And did they decide at some point that she
5 could not remain on the Prednisone?

6 A Yes.

7 Q When was that decision made?

8 A It was made in early to mid 2004.

9 Q In mid 2004, what happened then?

10 A Then we began -- she began taking Remicade,
11 which is an IV infusion.

12 Q You said it was an IV infusion. Was that
13 done at home?

14 A No. That's done at the hospital at the
15 outpatient center.

16 Q At the hospital you said?

17 A Yes.

18 Q And how often does she receive Remicade?

19 A It was given at the beginning -- you have to
20 start, and you get the first dose in week zero, and
21 then two weeks later you get another dose.

22 Remicade is a little bit different than
23 Humira. I'm trying to remember. I think it's zero,
24 two, four and then every four weeks after that.

25 Q So in the beginning you were in the hospital

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1 quite frequently for the Remicade infusion?

2 A Yes.

3 Q How was Michelle after the Remicade began?

4 A She responded quite well.

5 Q And when you say that, what do you mean?

6 A She was able to move around a lot better
7 without as many symptoms from the arthritis. She was
8 able to eat and drink better. Her stools were formed
9 and eventually of a normal frequency instead of so
10 many a day, just maybe, you know, one to two per day.

11 Q And were you able to continue on the
12 Remicade?

13 A We were up until October of 2005.

14 Q What happened in October 2005?

15 A She had a grand mal seizure and fell and
16 broke her leg.

17 Q And when she broke her leg what was the
18 reason for stopping the Remicade?

19 A Because Remicade and any anti-inflammatory
20 medication, even Ibuprofen, interferes with the
21 healing process.

22 Q And was there a problem with Michelle's
23 fracture healing?

24 A There was. Initially a rheumatologist in
25 town consulted with the orthopaedist in town, and he

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1 was afraid for her to be taken off of all her anti-
2 inflammatory medications. His quote was, "You'll have
3 a great bone, but she'll be a complete mess." This
4 doctor only knew Michelle -- he didn't see her as a
5 patient, but he did the consult knowing what her
6 background was.

7 She stayed on some of the anti-inflammatory
8 medications, but not the Remicade. After I believe it
9 was an eight-week period she had no signs of healing.
10 The bone showed no signs of healing.

11 Q And at that point was that when the Remicade
12 was stopped?

13 A It was stopped. Well, what happened was
14 they never restarted. She had a dose in September
15 2005, and then she didn't have any more doses because
16 the bone wasn't healing.

17 You know, I guess you could say it was
18 stopped. We just never restarted it for that reason.

19 Q So after the eight weeks and the bone hadn't
20 healed, what happened then?

21 A Then I made the decision, because to me that
22 was pretty scary because then you can get into a lot
23 of other problems, so I made the decision for them to
24 stop the anti-inflammatory medication at that time for
25 a short period.

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1 Q And what anti-inflammatory medications was
2 she on at that time?

3 A Um, she was on -- I'll have to look because
4 they started her on different ones at Phoenix
5 Children's Hospital. I think she might have still
6 been on 6-MP. I think it was Colazal instead of
7 Azulfidine, and she was on Imuran for a short period
8 for arthritis. There might have been one other.

9 I'd have to look at her records to tell you
10 for sure, but they more or less left it up to me to
11 say yes or no for the medications. I had to decide to
12 go with the orthopaedics recommendation or the other
13 doctors.

14 Q So Michelle had to come off all her bowel
15 medications?

16 A Yes.

17 Q And did her bone eventually heal?

18 A Yes, it did.

19 Q When Michelle came off all her bowel
20 medications, did her symptoms come back?

21 A Yes, they did.

22 Q So her diarrhea returned?

23 A Yes.

24 Q And how was the arthritis?

25 A Well, she was in bed, but she was very sore.

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1 She looked like she couldn't lift her back like if we
2 changed the underpads or her bedding.

3 At that point we couldn't get her on her
4 foot because she couldn't put any pressure on her
5 foot, so we had to change her bed with her in the bed
6 so we had to teach her to roll to one side and roll
7 back to the other side the way you learn to change a
8 hospital bed.

9 It was very hard for her some days to roll
10 back and forth, and she would kind of moan and make
11 sounds. You knew it was hurting her. I couldn't give
12 her Ibuprofen, you know, for a while for the pain.

13 I'm sorry. Now I got sidetracked. Your
14 original question? How was she?

15 Q How were her symptoms?

16 A How were her symptoms? Okay. As far as the
17 arthritis and she had the diarrhea, and unknown to us
18 at the time she was beginning to have the optic nerve
19 damage from the chronic inflammation, but at that time
20 we didn't know. We wouldn't know until a little bit
21 later.

22 Q Now, you and your husband were still caring
23 for Michelle by yourselves?

24 A Yes.

25 Q At some point in time did you require

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1 additional help?

2 A Well, my parents were helping, you know, so
3 the four of us.

4 Q The four of you would take care of Michelle?

5 A Yes.

6 Q Around the clock?

7 A Yes.

8 Q How old are your parents?

9 A Now they're 77 and 78.

10 Q At some point in time after Michelle's bone
11 healed did she resume her bowel medication?

12 A Yes, she did. It was um - Yes, she did.

13 Q And when did that happen?

14 A That was um - I'll have to look. I can't
15 remember exactly. I think the bone -- it was close to
16 eight months after the break.

17 It took eight months after the break. I
18 think the bone was almost completely healed, and it
19 may have been sooner than that that the orthopaedic
20 said it was okay to resume because it was almost
21 healed. I think it took almost a full year for it to
22 completely heal.

23 If I could add, during that time she also
24 had trouble tolerating the tube feedings, so it took
25 longer to heal because her bowels were unable to

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1 absorb the tube feeding formula which was given in a
2 drip. I don't know what they call it. By drip
3 feeding.

4 So she was not getting her full nutrition
5 even though we had the feeding tube, so that also
6 contributed to it.

7 Q You said she was unable to tolerate her tube
8 feeding. What do you mean by that?

9 A As we raised the ccs per hour, you know,
10 like you have 60, 80 or 100, which she was previously
11 at 100 ccs per hour. She was having trouble
12 tolerating I think it was like 50 or 60 ccs an hour.

13 The way we knew she was not tolerating it
14 was because you'd be doing the drip feed, and she
15 would have profuse, explosive, watery stools,
16 uncontainable even with a diaper and pads.

17 That was at the hospital. We were forever -
18 - All the aides were always in her room and were
19 always changing her back and forth. That's when she
20 was at Phoenix Children's Hospital.

21 Q And when she was at home and you'd taken her
22 off all the bowel medications you indicated she was
23 unable to tolerate her tube feeding at that time.

24 What do you mean by she was unable to tolerate it?

25 A It was the same. Her body -- Her bowels

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1 couldn't absorb

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1 it, so she would have diarrhea. It was the same.

2 Q So it was the explosive diarrhea?

3 A Exactly.

4 Q And how many times a day did you have to
5 change her?

6 A It was continuously. It could be every
7 couple of hours because sometimes some would kind of
8 like leak out on its own. Of course, we don't want
9 her laying in stools.

10 It would depend. Sometimes it was just an
11 all day thing, you know, changing and making her roll
12 back and forth, that kind of thing.

13 Q And this continued for a year after the
14 break almost?

15 A It wasn't for a full year. Once we resumed
16 some of the medication, and I have to look at my notes
17 or the medical records to tell you exactly when, but
18 when we resumed the bowel medication then, you know,
19 she was able to start tolerating and actually keep the
20 nutrition in.

21 Q Michelle's not toilet trained, is she?

22 A No, she's not.

23 Q She has to wear diapers?

24 A Yes, she does.

25 Q So when she was off her bowel medications

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1 you

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1 had to continually change her diapers?

2 A Yes.

3 Q Once she restarted her bowel medications you
4 said that the diarrhea stopped and she was able to
5 tolerate her tube feedings better?

6 A Yes.

7 Q What bowel medicines did she resume?

8 A I believe at that time it was Azulfidine and
9 6-MP.

10 Q And by that time had you started to see Dr.
11 Ziring?

12 A It was close to that time. It was November
13 2006. Let's see. The bone would have been healed.
14 The bone had already been healed, so, yes, it was
15 around that time we had resumed.

16 Q And when you first saw Dr. Ziring, what did
17 he tell you about Michelle's bowel disease?

18 A He said that um -- The first thing
19 practically that he said was that she needed to be on
20 Humira.

21 Q And did you have some discussions about
22 Humira?

23 A Yes, we did.

24 Q That was in 2006, and you indicated that she
25 just started Humira this past few weeks?

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1 A Yes.

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1 Q Is there any particular reason for why you
2 did not begin it in 2006?

3 A I was afraid to begin it. I was afraid that
4 with everything else she has going on that there was
5 the strong risk for her to get cancer. I had many
6 discussions with family.

7 There's other many side effects to it, and
8 since she's nonverbal I wouldn't know whether she's
9 getting tingling in her hands and feet. Some of these
10 say report it to your doctor immediately. I would
11 never know if she's getting tingling. What if she had
12 visual changes or vision changes I should say? I
13 wouldn't know that either.

14 I don't know if you feel different if you're
15 beginning to get the cancer. I would never know. We
16 wouldn't know until we had some other sign like in a
17 lab report or something.

18 After many discussions with family, I had to
19 come to terms with, you know, what we were going to
20 do. I hesitated for that, and they were very
21 respectful of my decision or of my waiting, you know.

22 Q So you had to make the decision whether to
23 treat Michelle's bowel disease or to put her at risk
24 for developing cancer?

25 A Yes.

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1 Q And what tipped it in favor of the bowel
2 disease?

3 A I was hoping that we were able to keep it
4 controlled with the current medication, which was the
5 6-MP and the Sulfasalazine. I think she had been on
6 Colazal again, and we switched to Sulfasalazine. Like
7 I said, I'd have to look at the records to be sure.

8 She went through what they call a quiet
9 stage where her eye problems were stable. She still
10 had them, but they were I guess controlled is a better
11 word. She had like loosely formed stools, so they
12 were almost formed, and the frequency was within a
13 normal range, maybe three times a day versus eight
14 times a day or something.

15 I was hoping maybe this quiet stage would
16 maybe go into an area where she wouldn't require
17 Humira, but she just didn't respond like she should
18 have, and I felt that we could not take the risk to
19 her eyes because if she were to have a very severe
20 bowel flareup the chronic inflammation could lead to
21 inflammation in the optic nerve.

22 She only has 10 percent optic nerve that's
23 healthy. To me, you have very little room to play
24 with. Her markers of inflammation that I've been
25 taught to look at on her lab readings had kind of

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1 maintained for a short period of time, but then they
2 started to go up. When that happened then I knew it
3 was no longer controlled by the medication.

4 Q So you made the decision to treat Michelle
5 with Humira to try and save the vision that she had
6 left?

7 A The vision, yes, and to keep the bowels
8 under control and arthritis. Right. Yes.

9 Q Now, we discussed this very briefly
10 yesterday. You indicated that in the admission of
11 July 2003 --

12 A Yes.

13 Q -- that's when you noticed that Michelle did
14 not appear to be able to see.

15 A Yes.

16 Q Could you describe for the Court again what
17 made you think that she could not see?

18 A Yes. She did not respond to people in the
19 room, where previously she would at least kind of
20 halfway look your way if you came in. We tried where
21 you put the hand in front of the eyes or like make the
22 motion like you're going to touch the person in the
23 face, and she didn't do anything. She didn't respond.

24 She would put her hands in the air like she
25 was feeling the air, you know, trying to find

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1 something and didn't want to run into it with her
2 hands, and she would let her VCR play to where it
3 reached like a snowy part, which that's something she
4 would never do. At that point I was afraid that she
5 had completely lost her vision.

6 Q And it was you who noticed this, not the
7 health care professionals?

8 A That's correct.

9 Q You brought this to the attention of the
10 staff at the hospital?

11 A To the pediatrician and the staff as well.

12 Q And what did they do?

13 A They called in a consultation with an adult
14 ophthalmologist.

15 Q And what did that adult ophthalmologist say
16 to you?

17 A He said that he did not have the proper
18 equipment to evaluate her in the hospital. We would
19 probably have to make a trip to his office. There was
20 no portable equipment available to him at the
21 hospital, but we couldn't leave the hospital at that
22 time. That was before she had the feeding tube.

23 I mean, it was at that visit she had the
24 feeding tube, but she didn't have it placed yet. She
25 was still too sick to leave.

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1 Q So what did they do to treat Michelle's loss
2 of vision?

3 A Nobody could determine. I mean, they saw
4 what she was doing, what I was explaining, but since
5 she was nonverbal we couldn't ask her can you see this
6 or does it look different or anything like that.

7 She also had a very dry look to her eyes and
8 redness all around them, so he thought the antibiotic
9 drops were not helping her, and then he went back and
10 tried to research what he thought could be similar
11 symptoms.

12 Anyway, he stopped those drops and he began
13 with rewetting drops. I think we had to give them
14 every four hours, something like that. It was very
15 frequent.

16 Q They're rewetting drops?

17 A Yes.

18 Q For dry eyes?

19 A For dry eyes. It's not a medicated product
20 or medicinal product.

21 Q So during this hospitalization did Michelle
22 receive any other treatment for her loss of vision?

23 A Not for the loss of vision.

24 Q And did that loss of vision persist during
25 that hospitalization?

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1 A No. Actually, she began to get better.

2 Q And after she was discharged did you follow
3 up on the loss of vision?

4 A Yes, I did.

5 Q And what did you do next after the discharge
6 for the loss of vision?

7 A For the loss of vision we saw a pediatric
8 ophthalmologist. A pediatric neuroophthalmologist.

9 Q And where was this pediatric
10 neuroophthalmologist located?

11 A At San Diego Children's Hospital.

12 Q So you had to make a three hour trip to see
13 a pediatric neuroophthalmologist?

14 A Yes.

15 Q And when you saw this pediatric
16 neuroophthalmologist what did he tell you?

17 A At that point in 2003 she had some paling,
18 which shows optic nerve damage, but it was slight at
19 that point. It's not what it is today, but at that
20 point. He thought she had a good potential for her
21 vision.

22 Q And that was roughly in 2003?

23 A Yes. That was December 2003.

24 Q And did you go back to see this doctor?

25 A We did in early 2004.

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1 Q And was there any particular reason why you
2 went back to see him?

3 A As a follow-up.

4 Q And at this follow-up was there any change
5 in Michelle's vision?

6 A No. Well, I mean, it was the same as the
7 previous one.

8 Q At what point in time did you learn that
9 Michelle had lost, um -- had developed significant
10 optic atrophy?

11 A It was in February of 2006.

12 Q And would that be in that timeframe when her
13 bowel disease was untreated?

14 A Yes, it would.

15 Q And how did you learn that she had optic
16 nerve atrophy?

17 A They had to do an eye exam under anesthesia
18 and examined her eyes.

19 Q And where was that done?

20 A That was done at San Diego Children's
21 Hospital.

22 Q Was that as a routine follow-up?

23 A No. That was as a referral that I needed to
24 have her eyes checked.

25 Q Did something happen that made you think

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1 that Michelle was losing her vision again?

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1 A This time I didn't have the signs like
2 before so, no, it didn't, but it looked like she was
3 starting to get pink eye, but she never developed pink
4 eye. Another doctor recommended that I take her to be
5 seen by an ophthalmologist.

6 Q So it was simply because she was developing
7 some symptoms and you wanted to check out the
8 symptoms?

9 A Yes.

10 Q At this evaluation under anesthesia what did
11 the doctor tell you he discovered?

12 A He told me he discovered that she had
13 approximately 90 percent damage to the optic nerves,
14 and he discussed briefly low vision products.

15 He said that we should keep her room and
16 everything in the house exactly the same so that she
17 could find it because she would probably be able to
18 recognize things, but not really understand what new
19 things were because he had suspected more of a loss of
20 vision or low vision, which is not completely
21 blindness, but it's still not being able to see like
22 you and I see.

23 Q So he was recommending essentially that you
24 do the same type of things that you would do for a
25 blind person?

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1 A Yes. He said don't change anything in the
2 house because she'll need to know where it's at.

3 Q Did he order any treatment for Michelle's
4 eye problem?

5 A Yes, he did.

6 Q What did he order?

7 A He ordered Pred Mild eye drops.

8 Q And is there something in this eye drop that
9 would help Michelle retain the vision that she had?

10 A I believe it's Prednisone-based. I'm going
11 by the name Pred Mild. I don't remember what's on the
12 box, but it is a steroid eye drop.

13 Q An anti-inflammatory eye drop for her eyes?

14 A Yes. It's steroid-based. I know that
15 though.

16 Q Has Michelle's vision stabilized?

17 A In a subsequent visit, which was by another
18 ophthalmologist in the practice because the first one
19 we saw was gone for a couple of months, it was
20 discovered that she had open angle glaucoma, so her
21 vision stabilized, but not until the uveitis and the
22 glaucoma were treated, so she was being treated with
23 two eye drops at that point.

24 Q Did anybody tell you that the glaucoma was
25 related to existing eye problems?

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1 A Yes, to the inflammation in the body and, as
2 they put it, "everything she has going on."

3 Q Does Michelle continue on those eye drops to
4 this present day?

5 A Yes, she does.

6 Q Now, we've discussed Michelle's bowel
7 problems. We've discussed her eye problems. When did
8 you first notice that she had arthritic type problems?

9 A Okay. That would be probably in 2002,
10 shortly after the time period where she was unable to
11 eat very much, but she was still drinking a lot of
12 fluids, so that would be around late 2002.

13 Q Would that be before the hospitalization?

14 A Yes.

15 Q What did you notice?

16 A She was limping. We thought she had twisted
17 her ankle, but it continued forever.

18 Q And what made you seek treatment for that?

19 A It wasn't until after -- well, I did seek
20 treatment, but nobody knew what it was. They thought
21 she was favoring the leg. We had her x-rayed. There
22 was no bone break, no -- what do they call it -- green
23 stick fracture.

24 I can't remember what it's called. It's
25 when a child fractures a bone, but their bones are

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1 still in the developing stage. I can't remember the
2 exact term, but all that was ruled out so we thought
3 okay, she favors that leg, but we didn't really know
4 why until much later.

5 Q So she was limping for a while before the
6 hospitalization?

7 A Yes.

8 Q When was the arthritis diagnosed?

9 A In December of 2003.

10 Q And how did it come to be diagnosed?

11 A I was asked to take her to be evaluated by a
12 pediatric rheumatologist.

13 Q And who asked you to do that?

14 A Dr. Arthur Krigsman.

15 Q And it was Dr. Krigsman in New York who
16 thought that Michelle should see a pediatric
17 rheumatologist?

18 A Yes.

19 Q None of your local doctors suggested this?

20 A They didn't suggest a follow-up, but they
21 suggested she might have arthritis when they saw the
22 swelling in the leg. That was about three days before
23 we went to see Dr. Krigsman.

24 Q So they told you that she potentially had
25 arthritis?

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1 A Yes.

2 Q And they suggested follow-up for the
3 arthritis?

4 A Yes, Dr. Krigsman did.

5 Q Your local doctors now.

6 A Oh.

7 Q They suggested that she have follow-up for
8 her arthritis?

9 A They said maybe it's arthritis, but they
10 didn't really suggest any follow-up. I took it to
11 mean that if it continues.

12 They knew we were going on this big trip,
13 and I just took it to mean that, you know, if it
14 continues they can refer us. It was unspoken, but,
15 you know, like that.

16 Q And you told us that it was Dr. Krigsman who
17 suggested this?

18 A He said you need to get her in to a
19 pediatric rheumatologist right away.

20 Q And was this after your visit with him?

21 A During the visit. Right.

22 Q During the visit. And that was roughly
23 September of 2003?

24 A September 25th, more or less, 2003.

25 Q So who did you see?

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1 A We saw Dr. Robert Sheets at San Diego
2 Children's Hospital.

3 Q So another three hour ride?

4 A Yes.

5 Q And when you first saw Dr. Sheets what did
6 he tell you?

7 A He examined her for arthritis, checked her
8 hands, her arm movements, her hips, her ankles, her
9 legs, and he said she had he thought it was mostly in
10 her subtalar joints and mostly in the left leg.

11 Q And did he tell you what he thought was the
12 cause of this arthritis?

13 A He said I believe it's secondary to the
14 bowel disease.

15 Q Did he order any treatment for her
16 arthritis?

17 A No. He said that he could if she was not
18 responding enough to the bowel medication, but he said
19 by treating the bowel disease, since her arthritis is
20 secondary to the bowel disease, by treating the bowel
21 disease and getting it under control, the arthritis
22 symptoms should disappear.

23 Q And did you continue to see Dr. Sheets?

24 A Yes, we did.

25 Q And in the course of your treatment with Dr.

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1 Sheets, did he make any other recommendations, other

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1 than to treat the bowel disease?

2 A He recommended that she be put on Remicade,
3 but that was in conjunction with the GI, with Dr.
4 Krigsman.

5 Q Okay. So he concurred with Dr. Krigsman
6 when Dr. Krigsman recommended the Remicade?

7 A Yes, he did.

8 Q And you've indicated that when she went on
9 the Remicade, her bowel symptoms improved and her
10 arthritis improved?

11 A Yes, it did.

12 Q And do you continue to follow up with Dr.
13 Sheets?

14 A No. Well, with his partner.

15 Q And has Michelle's arthritis changed at all
16 in the last few years?

17 A Some of it is about the same. She still has
18 difficulty moving the ankle, but I think because she's
19 not as swollen because she's in bed more, but she's
20 very sore. When she walks, some days she's very sore
21 like she can't get up. So maybe it's changed, how it
22 appears, but I would say it might have improved
23 slightly.

24 Q Okay. So we've discussed the bowel disease,
25 her eye problems and her arthritis, which your

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1 treating physicians indicate are related, all related,
2 is that true?

3 A Yes.

4 Q Now, at some point in time, Michelle
5 developed seizures, is that true?

6 A Yes.

7 Q Could you describe to the Court the
8 circumstances under which these seizures began?

9 A The first seizure began, that would have
10 been around July of 2004 after the administration of
11 Demerol, and we thought at that time that it was a
12 one-time episode. Probably about an eight-month
13 period passed with no seizures and then she began to
14 have them again.

15 Q And you said that she began to have them
16 again. How frequently was she having the seizures?

17 A At that point, eight months after the first
18 one, she had a grand mal seizure and then it was
19 probably a couple of months before she had another
20 one, but then they began to increase in strength and
21 frequency both, to the point where -- well, actually,
22 that was right before the time when she broke her leg.
23 Over that period of time, they began to increase, but
24 it was slowly, but then right around the time she
25 broke her leg was when we were like, oh my gosh, she

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1 just had one and now she's having another one, and
2 then that's when she broke her leg.

3 Q So when these seizures began, did you seek
4 treatment for them?

5 A Yes, we did.

6 Q Who did you see?

7 A Well, she was seen in the hospital by an
8 adult -- not rheumatologist -- neurologist.

9 Q An adult neurologist, you said?

10 A Yes.

11 Q And what was the reason she was seen by an
12 adult neurologist?

13 A He was called in as a favor to the
14 pediatrician because we don't have any local pediatric
15 neurologists.

16 Q And what did he recommend for Michelle?

17 A He recommended treatment with Topamax.

18 Q And did Michelle go on Topamax?

19 A Yes, she did.

20 Q Did she continue on the Topamax?

21 A She did for a period of time.

22 Q So at some point in time she came off the
23 Topamax?

24 A Yes.

25 Q And what was the reason she came off the

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1 Topamax?

2 A Because we were unsure, the doctor was
3 unsure if -- I mean, the pediatric ophthalmologist was
4 unsure whether or not Topamax was contributing to the
5 optic neuropathy -- or optic atrophy, sorry.

6 Q So that's why she had to come off the
7 Topomax?

8 A Yes.

9 Q There was fear that it was contributing to
10 her eye problems?

11 A Yes.

12 Q And when she came off the Topamax, did she
13 go on any other anticonvulsants?

14 A Not at that time.

15 Q How long was Michelle off anticonvulsants?

16 A I'm gonna guess -- I'd need to look at my
17 notes or my calendar, but I would say it would
18 probably be about a six-week period, maybe an eight-
19 week period at the most.

20 Q And during this period of time, did Michelle
21 have any seizures?

22 A Yes, she did.

23 Q What type of seizures was she having?

24 A She was having the grand mal seizures, that
25 type.

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1 Q And did you seek treatment for her grand mal

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1 seizures since she was no longer on anticonvulsants?

2 A Yes, we did.

3 Q Who did you see then?

4 A We saw Dr. Michelle Sahagian at San Diego
5 Children's Hospital.

6 Q And how did you find Dr. Sahagian?

7 A I called the neurology department and asked
8 who was the -- who could -- well, just to make an
9 appointment, the soonest available, so she was the one
10 that was available.

11 Q Okay, and when did you see Dr. Sahagian?

12 A We saw her in um -- I can't remember the
13 month. I think it was June or July of 2006.

14 Q And at that time, Dr. Sahagian evaluated
15 Michelle?

16 A Yes, she did.

17 Q And what did she tell you after her
18 evaluation?

19 A She diagnosed her with epilepsy.

20 Q Epilepsy?

21 A Yes.

22 Q And did Dr. Sahagian explain to you how she
23 could have epilepsy in such a brief period of time?

24 A She said that with everything, she's so
25 involved medically and she had so much going on that

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1 everything together combined to put her body in a
2 state to where she had developed epilepsy.

3 Q And is Michelle on medication for her
4 epilepsy now?

5 A Yes, she is.

6 Q And what medication is she on?

7 A She is on Keppra.

8 Q Did Dr. Sahagian start the Keppra?

9 A Yes, she did.

10 Q What dose did she start the Keppra at?

11 A We started at a small dose. I think it was
12 um -- I'll have to look. I think it was 500
13 milligrams a day. It was a low dose.

14 Q And at that dose, did Michelle remain
15 seizure-free?

16 A Only for a short period.

17 Q So she started having seizures again?

18 A Yes, she did.

19 Q What did you do then?

20 A I called Dr. Sahagian's office.

21 Q And what was Dr. Sahagian's recommendation?

22 A She outlined for me, how to increase -- she
23 basically said to do it this way, you increase it by
24 this many milligrams per day. If she stays seizure-
25 free, you can leave it at that dose. If she has one

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1 or so I

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1 think they call them breakthrough seizures and doesn't
2 have any more, you can still keep it at that dose, but
3 then if she starts having more, then you increase it
4 to the next, you know, add I think it was by 250
5 milligrams each time per day until you get to a point
6 where she seems to be seizure-free.

7 I mean, I was free to call her anytime if I
8 had any questions, but her concern, she was very fair
9 about the side effects of the medications so she said,
10 as you increase the medication, you will also begin to
11 see probably increased side effects, which can be
12 different neurological manifestations. OCD, some kind
13 of extraneous hand movements, not like a palsy but I
14 don't know what else to call it, that's kind of what I
15 consider it, and maybe obsessions with certain things.

16 You know, that those things I would have to
17 look for, but sometimes after a two-week period, the
18 body will adjust, but, you know, so as I increased it
19 I was trying to be real careful because she also
20 agreed that we didn't need to keep putting a lot of
21 medication into her system. So that was her treatment
22 plan.

23 Q So on your own, you were told that if
24 Michelle suffered breakthrough seizures, you were told
25 to gradually increase her medication, is that true?

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1 A Yes, yes.

2 Q And as you gradually increased the
3 medications, you were told that she might suffer some
4 side effects?

5 A Yes.

6 Q And you were told to watch for those side
7 effects?

8 A Yes, I was.

9 Q How far have you increased Michelle's
10 Keppra?

11 A We are up to 2000 milligrams a day.

12 Q And does she remain seizure-free?

13 A No, she does not.

14 Q Are you continuing to increase the Keppra?

15 A I stopped at 2000 milligrams a day. We are
16 allowed to go up just a little -- she's almost at the
17 maximum, so I stopped, I have not increased it past
18 the 2000 milligrams a day.

19 Q What do you do when Michelle has
20 breakthrough seizures?

21 A We try to make sure that she's safe and we
22 give her oxygen to help her recover quicker from the
23 seizure, and then if she looks like she's going to
24 have a seizure, we are allowed to give her a 2
25 milligram dose of Valium.

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1 Q And have you had to give her Valium?

2 A Yes.

3 Q Are there any plans to add additional
4 seizure medications at all for Michelle?

5 A Not at this point, but it's, I mean, it is
6 an option later.

7 Q And when was the last time you saw Dr.
8 Sahagian?

9 A Probably in 2006. I think it was late 2006.
10 I have to check. I know that was the year but I don't
11 remember the month.

12 Q And at that last visit, what was Dr.
13 Sahagian's recommendations to you?

14 A It was the same, with the Keppra.

15 Q Did Dr. Sahagian indicate to you whether
16 Michelle's seizure disorder could be controlled?

17 A She said that sometimes you don't get what
18 you call tight control of the seizure, is the term she
19 used, "tight control." There's a possibility that
20 they will not be completely controlled, so, you know,
21 that was -- you mean like a prognosis? That's what
22 she told me.

23 Q So essentially, you were being told that
24 this may be the best that you can do for her seizures?

25 A Unless we wanted to put her on, or try, I

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1 guess, several -- if I wanted to go the route where
2 she's taking a lot of medication at one time. But
3 then at that point you are probably going to see a lot
4 of other side effects.

5 Q So Mrs. Cedillo, who currently cares for
6 Michelle's inflammatory bowel disease?

7 A Dr. David Ziring as well as Dr. Arthur
8 Krigsman.

9 Q Dr. Krigsman is where?

10 A He's in New York.

11 Q And Dr. Ziring is where?

12 A At UCLA in Los Angeles.

13 Q And who cares for Michelle's arthritis?

14 A Right now, Dr. Szer at San Diego Children's
15 Hospital.

16 Q And her eye problems?

17 A Dr. Scher, spelled a different way, and Dr.
18 O'Halloran at San Diego Children's Hospital.

19 Q And her seizures are being cared for by Dr.
20 Sahagian also --

21 A Yes.

22 Q -- at San Diego Children's Hospital?

23 A Yes.

24 Q And they are all three hours away from you?

25 A Three hours one way for San Diego and about

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1 a five-hour drive one way for UCLA.

2 Q What do you do in emergencies?

3 A Well, I call and see if it's something I can
4 handle at home. I usually try to handle it myself
5 with a phone call with the doctor, which over the
6 years I've learned to do. Before I would try to get
7 her into the ER. But for an emergency like if she
8 were to not be responding or look unresponsive then we
9 cal 911.

10 MS. CHIN-CAPLAN: The video is ready now,
11 Special Master. I'd like to go through it with the
12 Court and Mrs. Cedillo.

13 SPECIAL MASTER HASTINGS: All right.

14 MS. CHIN-CAPLAN: Special Master, we are
15 going to be showing some "before" home videos, and
16 they are dated from 6-95 through 12-95, and then we
17 are going to be showing some videos also dated from
18 12-25-95 to approximately 8-30-00. We may not show
19 them all, but if the Court wants to see anything in
20 the middle, we will certainly be glad to run through
21 them for you.

22 SPECIAL MASTER HASTINGS: All right. So are
23 you, Ms. Chin-Caplan, you're going to run through them
24 with Mrs. Cedillo on the stand and not with an expert
25 witness, or?

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1 MS. CHIN-CAPLAN: Yes, that's correct.

2 SPECIAL MASTER HASTINGS: Okay.

3 MS. CHIN-CAPLAN: And at some point in time
4 we might go through the points that the Respondent had
5 raised, and I would go through it with Dr. Kinsbourne.
6 I hadn't quite decided that one yet.

7 SPECIAL MASTER HASTINGS: All right.

8 THE WITNESS: Special Master Hastings?

9 SPECIAL MASTER HASTINGS: Yes?

10 THE WITNESS: Am I speaking loud enough?

11 SPECIAL MASTER HASTINGS: I think so, I can
12 hear you.

13 THE WITNESS: Okay.

14 SPECIAL MASTER HASTINGS: Yes.

15 THE WITNESS: Do I need to move?

16 SPECIAL MASTER HASTINGS: Is it possible for
17 you to move a bit to your right?

18 THE WITNESS: Yes, okay.

19 SPECIAL MASTER HASTINGS: Great. It's
20 easier for us to see you.

21 THE WITNESS: This way?

22 SPECIAL MASTER HASTINGS: Great.

23 THE WITNESS: Okay.

24 SPECIAL MASTER HASTINGS: Thank you.

25 THE WITNESS: Sure.

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1 SPECIAL MASTER HASTINGS: You may have to
2 slide the microphone.

3 THE WITNESS: Sure. Is this better?

4 SPECIAL MASTER HASTINGS: For those at home,
5 we are having a bit of technical difficulty here.
6 Bear with us. Nothing is going on right now.

7 (Whereupon, a video was played.)

8 BY MS. CHIN-CAPLAN:

9 Q Now, Mrs. Cedillo, could you just generally
10 describe what we see here?

11 A Okay, this is Michelle playing with her
12 jungle gym and I believe my niece Jennifer is doing
13 the videotape.

14 SPECIAL MASTER HASTINGS: Can you stop for a
15 minute, Mr. Shoemaker? Is the audio of the video
16 important?

17 MS. CHIN-CAPLAN: Yes, it is.

18 SPECIAL MASTER HASTINGS: It is.

19 MS. CHIN-CAPLAN: Perhaps what we could do
20 is have the scene come up and Mrs. Cedillo could
21 describe it, and then we will run that segment.

22 SPECIAL MASTER HASTINGS: All right, and
23 what am I looking for here? What's the purpose up
24 here, so we have a better chance to understand what
25 you are showing here, and the purpose of it?

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1 MS. CHIN-CAPLAN: These are the videos that
2 we have of Michelle before she became symptomatic, and
3 we would like to show the difference between the
4 before and the after.

5 SPECIAL MASTER HASTINGS: All right, go
6 ahead.

7 MR. MATANOSKI: First, Special Master, could
8 the Petitioners' counsel identify which segments these
9 are from the video files they provided?

10 SPECIAL MASTER HASTINGS: Is that possible?

11 MS. CHIN-CAPLAN: I'm not certain.

12 Mr. Matanoski: " That's what we did."

13 MR. SHOEMAKER: I'm not sure what you mean
14 by what "segment." There are three DVDs. You want to
15 know which one they are on, or?

16 MR. MATANOSKI: What we did in responding to
17 the Court's order, designating what parts of the
18 videotapes we were looking at, we gave specific cites
19 to the videotape. There are separate files, and we
20 gave cites to those files, and that is what we are
21 asking for now.

22 SPECIAL MASTER HASTINGS: Did any of you
23 ever see the designations the Respondent gave you?

24 MR. HOMER: We did, sir.

25 SPECIAL MASTER HASTINGS: Did you understand

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1 what they were cited to?

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1 MR. HOMER: I did, but our approach is
2 different. We are not exactly doing what the
3 government is doing. Our approach is that we are
4 giving a span, we are giving dates, as Ms. Chin-Caplan
5 just stated on the record, from June '95 through 12-
6 95, and that's what we're showing the Court. Now, the
7 government went a little further and I guess decided
8 upon their own to divide it up into segments, but
9 that's simply not our approach here. But we are
10 giving the dates.

11 SPECIAL MASTER HASTINGS: You are giving the
12 dates?

13 MR. HOMER: And the witness will go through
14 from June through 12-95 and describe what the Court is
15 seeing. That is our approach.

16 SPECIAL MASTER HASTINGS: All right. Go
17 ahead.

18 MR. MATANOSKI: So you're not --

19 SPECIAL MASTER HASTINGS: They are going to
20 give us dates.

21 MR. MATANOSKI: They're not designating --
22 but you are giving a six-month period, in other words.

23 MR. HOMER: This will -- exactly.

24 SPECIAL MASTER HASTINGS: Are you going to
25 give us a date, not just a six-month, but June 6, are

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1 you going to give us that for each segment?

2 MR. HOMER: Yes.

3 SPECIAL MASTER HASTINGS: Okay. All right,
4 go ahead.

5 MS. CHIN-CAPLAN: Some of these are dated at
6 the bottom. There are others that, for some reason,
7 there's not a date, but we are going to ask Mrs.
8 Cedillo to identify this and when it occurred.

9 SPECIAL MASTER HASTINGS: All right.

10 BY MS. CHIN-CAPLAN:

11 Q Mrs. Cedillo, do you recognize this scene?

12 A Yes, I do.

13 Q Can you just generally tell the Court how
14 old Michelle was and what she was doing and who else
15 was present in the room?

16 A Okay. I need to um -- What's the start date
17 on this? Because I think it ran past the start date.

18 Q The date that we have on the DVD was June
19 '95.

20 A Okay. Depending on the day of the month, I
21 think this was probably June 9 if I'm remembering, so
22 she was still 9 months old.

23 Q And what was she doing here?

24 A She was playing, and my niece Jennifer was
25 doing the videotape and Michelle loved Jennifer.

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1 Q Was anybody else in the room at the time?

2 A I think my dad would be over to the right
3 side, and I think he was laying there on the side, so,
4 and my mom might have been in the background but
5 Jennifer was the one holding the camera.

6 Q And is this you in the photo as well?

7 A Yes, that's me.

8 MS. CHIN-CAPLAN: Okay.

9 (Whereupon, the video was continued.)

10 BY MS. CHIN-CAPLAN:

11 Q Mrs. Cedillo, there's a person on the right
12 of the screen?

13 A That's Michelle's grandfather.

14 (Whereupon, the video was continued.)

15 BY MS. CHIN-CAPLAN:

16 Q Mrs. Cedillo, when was this scene?

17 A This is 6-10-95, so Michelle was 9 months
18 old. She was taking a bath in the kitchen sink.
19 That's my mom, or her grandmother, to the left over
20 here, and then I'm filming it.

21 (Whereupon, the video was continued.)

22 SPECIAL MASTER HASTINGS: For those
23 listening at home, the Petitioners are presenting home
24 video of Michelle as an infant and we're sorry you
25 can't see what's going on, but the sounds you are

CEDILLO - DIRECT

1 hearing are mainly sounds coming from the videotapes
2 themselves.

3 Go ahead, Ms. Chin-Caplan.

4 MS. CHIN-CAPLAN: Thank you, Special Master.

5 BY MS. CHIN-CAPLAN:

6 Q Mrs. Cedillo, this portion of the video is
7 dated 6-12-1995. How old was Michelle at that time?

8 A She was 9 months old.

9 Q And can you identify who the individual is
10 here in the camera shot?

11 A That's her father.

12 Q And was there anybody else in this scene
13 that is not reflected on this video?

14 A I'm not sure if it's this one. I think
15 eventually I get into the scene and either my mother
16 or my niece Jennifer takes over the filming.

17 Q Okay.

18 A So there might be another similar one, so
19 I'm not sure if it's this one or the next one.

20 MS. CHIN-CAPLAN: Okay.

21 (Whereupon, the video was continued.)

22 THE WITNESS: I'm telling my mom how to work
23 the camcorder, so that's my mom recording now.

24 (Whereupon, the video was continued.)

25 BY MS. CHIN-CAPLAN:

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1 Q And this one is dated 6-20-95. Can you
2 describe the scene to us?

3 A She is 9 months old, and she loved Big Bird
4 and Bert, and so she would get real excited when the
5 opening song for Sesame Street came on when they would
6 show all the characters, and she's trying to say "Big
7 Bird." She said "Bert" but in here it kind of sounds
8 like a scream. She's trying to say "Big Bird," and
9 that's her dad with her. And then I'm to the side. I
10 think we are the only two. I'm the one recording. I
11 think it's just the two of us and Michelle here.

12 Q I noticed in the last few photos that she
13 was sitting up by herself.

14 A Yes.

15 Q So she was 9 months old at this time?

16 A Yes.

17 Q And she was sitting up by herself at 9
18 months old?

19 A Yes.

20 (Whereupon, the video was continued.)

21 THE WITNESS: Our dog.

22 (Whereupon, the video was continued.)

23 THE WITNESS: It's the same date. Her
24 father is doing that same motion to her. She is
25 imitating him.

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1 (Whereupon, the video was continued.)

2 THE WITNESS: So she's still 9 months old.
3 It's her first time in the swimming pool in our
4 backyard, and she's with her dad, I'm filming, and I
5 think my mom is to the left or right of me, I can't
6 remember. The dog is there, and I think my dad might
7 be there.

8 (Whereupon, the video was continued.)

9 THE WITNESS: Okay, 8-22, so she's just shy
10 of one year old. August 30 she would have been -- I
11 mean she would be one year old, so she's 11 months
12 here. That's my dad, her grandpa, playing with her
13 over here. And I'm recording, and other than the dog,
14 I think we are the only ones in the room.

15 (Whereupon, the video was continued.)

16 BY MS. CHIN-CAPLAN:

17 Q When was this scene taken?

18 A This was taken on her -- it might have been
19 a couple days -- it's either on her birthday day or
20 it's a couple days later. I think my brother bought
21 her a Big Bird -- I mean, a Sesame Street birthday
22 cake. So if it's not exactly on 8-30-95 then it's
23 within a couple of days. So I'm taping, my husband is
24 there behind Michelle, my brother Philip and his
25 daughter Jennifer are to the left on another sofa.

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1 (Whereupon, the video was continued.)

2 THE WITNESS: My brother's making her laugh
3 to the side, but you can't see him.

4 (Whereupon, the video was continued.)

5 SPECIAL MASTER HASTINGS: At the end of this
6 segment, can we stop it now? Let's take our morning
7 break now, fifteen-minute break. I've got 10:46, so
8 let's convene back just after 11. So let's go off the
9 record.

10 (Whereupon, a short recess was taken.)

11 SPECIAL MASTER HASTINGS: To those at home,
12 we had a longer break than we anticipated but we are
13 going to be starting up again right now. All right,
14 Ms. Chin-Caplan, if you want to go ahead with whatever
15 you're going to do next here, please go ahead. Mrs.
16 Cedillo is back in the witness chair.

17 MS. CHIN-CAPLAN: Special Master, we're
18 going to move on to December of 1995 and show a few of
19 the clips after the MMR in December of '95.

20 SPECIAL MASTER HASTINGS: Okay, fine.

21 MS. CHIN-CAPLAN: We just need a little time
22 to get to that frame.

23 SPECIAL MASTER HASTINGS: All right.

24 THE WITNESS: Do you want, Sylvia, right
25 prior? Do you want 12-25-95 or do you want 12-17?

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1 MS. CHIN-CAPLAN: That's the next scene
2 after it, isn't it? 12-25?

3 THE WITNESS: I think it's after this one.

4 MS. CHIN-CAPLAN: Okay, why don't we start
5 with 12-17-95.

6 THE WITNESS: Okay.

7 SPECIAL MASTER HASTINGS: Okay, do speak up.

8 THE WITNESS: Okay, I'm sorry, I was --
9 okay, so we're at 12-17-95, so Michelle is -- sorry --
10 12, 13, 14, 15 -- she's 15 months here. And this is a
11 ball pit that my mom and dad bought for her and we
12 gave it to her as an early Christmas present.

13 (Whereupon, the video was continued.)

14 THE WITNESS: This is Christmas Day and
15 that's her grandmother giving her a Christmas present,
16 and I think we are all in the general area. I think
17 we come in and out, so it would be her father, her
18 grandfather, I'm filming, my mother and Michelle. And
19 she's 15 months old.

20 (Whereupon, the video was continued.)

21 SPECIAL MASTER HASTINGS: Ms. Chin-Caplan,
22 what next?

23 MS. CHIN-CAPLAN: The next scene will be
24 post-MMR.

25 SPECIAL MASTER HASTINGS: Okay.

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1 (Pause.)

2 SPECIAL MASTER HASTINGS: So for those at
3 home, the Petitioners are going to be showing a few
4 more videos here, so bear with us. What you will be
5 listening to is the --

6 THE WITNESS: This is still pre-MMR.

7 SPECIAL MASTER HASTINGS: What you'll be
8 listening to is there will be audio of the video and
9 with Mrs. Cedillo testifying today telling us
10 something about those videos.

11 Go ahead.

12 THE WITNESS: Okay, this is December 25,
13 '95, so Michelle is still 15 months old, and this is
14 pre-fever -- okay, well, it skipped. Sorry. Okay,
15 this is, I believe, the same day, 12-25-95, so the
16 same. She's 15 months old and I think it's just a
17 brief clip. And this is pre-fever. The same, the
18 same scene.

19 (Whereupon, the video was continued.)

20 BY MS. CHIN-CAPLAN:

21 Q Could you identify this scene for the Court?

22 A This is February 16, '96, so Michelle is --
23 let's see, 16, 17, she's 17 months still. And this is
24 post-fever, following MMR, and my dad's in the room
25 and I am recording her. Actually, we are trying to

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1 get her attention, but --

2 (Whereupon, the video was continued.)

3 MS. CHIN-CAPLAN: We're going to stop here,
4 Special Master.

5 SPECIAL MASTER HASTINGS: All right.

6 BY MS. CHIN-CAPLAN:

7 Q Mrs. Cedillo, on that last scene, did
8 Michelle make any sound at all?

9 A No, she did not.

10 MS. CHIN-CAPLAN: I have no further
11 questions.

12 SPECIAL MASTER HASTINGS: All right. Thank
13 you.

14 MS. CHIN-CAPLAN: Oh, one other thing,
15 Special Master. There seems to be a gentleman sitting
16 next to Ms. Ricciardella that -- I'm not aware of his
17 identity, so I was wondering if he could just identify
18 himself.

19 SPECIAL MASTER HASTINGS: Can you identify
20 yourself, sir? I'm sorry? You're Dr. Fombonne?
21 Okay. Thank you.

22 I guess next we'll have cross-examination of
23 Mrs. Cedillo. I will note for all who might be
24 interested at home or in the room now, I'm told that
25 the audio download of yesterday's hearing is now

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1 available on our website, and the transcript of
2 yesterday's hearing is now available on our website.

3 So with that, Ms. Ricciardella, you have
4 some questions for Mrs. Cedillo?

5 MS. RICCIARDELLA: Just a few. Thank you.

6 SPECIAL MASTER HASTINGS: Please go ahead.

7 CROSS EXAMINATION

8 BY MS. RICCIARDELLA:

9 Q Good morning, or I should say, yes, it's
10 still morning. Good morning, Mrs. Cedillo.

11 A Good morning.

12 Q I want to state at the outset that it is
13 very clear, from the medical records, from the home
14 videos that we just watched, and really from every
15 piece of evidence that is specific to Michelle that
16 has been submitted in this case, that both you and
17 your husband are very loving and dedicated parents to
18 Michelle.

19 A Thank you.

20 Q And the same holds true for Michelle's
21 grandparents.

22 A Thank you.

23 Q She's very fortunate to have you all as her
24 family.

25 A And we're fortunate to have her. Thank you.

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1 Q And because you all are such dedicated
2 caregivers, you take her to the doctor when she is
3 sick, correct?

4 A That's correct.

5 Q I mean, you've done that throughout her
6 life, isn't that true?

7 A Yes.

8 Q Now, Mrs. Cedillo, you testified yesterday
9 about the behaviors that you noticed following the
10 febrile episode in December of '95, in January of '96.
11 Do you recall that testimony?

12 A Yes, I do.

13 Q When did you first have concerns about
14 Michelle's development and her behavior?

15 A It would be following the fever, after the
16 fever had stopped the second time.

17 Q So sometime in mid-January of 1996?

18 A Around that time.

19 Q And what was your first concern?

20 A That she no longer spoke.

21 Q Did anybody else in your family share your
22 concerns?

23 A Yes.

24 Q Who? Your husband?

25 A My husband and my parents.

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1 Q Your parents. Now, yesterday, you testified
2 about some of the behaviors that were concerning to
3 you, and I think you said that she, as you just said
4 now, she stopped talking, that she didn't want to play
5 with toys, is that correct?

6 A She played differently --

7 Q Played differently with toys?

8 A -- with toys.

9 Q How did she play differently?

10 A Before she would play with the toy
11 appropriately, like if it was the stacking rings, she
12 would stack them and maybe now she would just look at
13 them or touch the stacking ring or line -- I don't
14 think at that point she was lining them up yet, but
15 she didn't seem to -- I guess the easiest way is to
16 say she didn't seem to have the same kind of interest
17 in the toys she had been playing with that she did
18 before.

19 Q I believe you said she was withdrawn, you
20 noticed she was withdrawn?

21 A Yes.

22 Q And quiet?

23 A Yes.

24 Q And I believe you said too that she would
25 push or lean away from you, is that correct?

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1 A Yes.

2 Q All right. Now, in an affidavit that you
3 filed in this case, you also -- you said that Michelle
4 would cry inconsolably unless you played a Sesame
5 Street video during this time, is that correct?

6 A Yes, a video.

7 Q When do you recall that she first became --
8 that she would first display this behavior unless you
9 played a Sesame Street video?

10 A To the best of my knowledge, which is an
11 approximate --

12 Q I'm sorry, I didn't hear.

13 A To the best of my knowledge, as an
14 approximate, I would say one to two days into the
15 fever, so that would be December 27 or December 28,
16 1995.

17 Q And could you describe how she would react
18 to a Sesame Street video?

19 A It would calm her.

20 Q Did she stop interacting with people during
21 this time?

22 A It began declining, yes. It stopped, yes.

23 Q With you and your husband as well?

24 A Yes.

25 Q Did she stop pointing at objects during this

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1 time?

2 A Yes.

3 Q Did you notice any problems with her motor
4 skills during this time?

5 A Not with her motor skills. You mean as in
6 walking, picking up an object?

7 Q As walking or crawling, correct.

8 A No.

9 Q Okay. Did you observe any hand flapping
10 during this time? Do you know what I mean by "hand
11 flapping"?

12 A Yes, I do.

13 Q Did you observe that?

14 A I observed it. My recollection most notably
15 would be probably around February --

16 Q Of which year?

17 A -- of '96.

18 Q '96, okay.

19 A So, and I truly can't recall if it started
20 immediately or if it was, you know, around -- I recall
21 at that time from a video.

22 Q From the video that we just saw?

23 A Yes.

24 Q Okay, and that was, I believe it was,
25 February 16 of '96, is that the date?

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1 A There is a -- it's either February 16 or 17.

2 Q Okay, is it the video where she's sitting by
3 a clothes basket?

4 A No it's -- she's in a little caboose train,
5 but it's very dark, the picture was very dark, but
6 she's flapping this way.

7 MS. RICCIARDELLA: Okay, and for the record,
8 Mrs. Cedillo is flapping her hands back and forth.

9 THE WITNESS: Flapping my hands, right.

10 BY MS. RICCIARDELLA:

11 Q Now, Mrs. Cedillo, you've just described the
12 behaviors that you began observing in Michelle shortly
13 after her febrile episode in 1996, correct?

14 A Yes.

15 Q All right. Now, I'd like to discuss the
16 behavior you observed in Michelle in the 6 to 12
17 months following that. What behaviors was she
18 displaying that you now think were autistic behaviors?

19 A So 6 to 12 months from February, or --

20 Q Correct.

21 A Okay.

22 Q Six to 12 months from the febrile episode.

23 A Oh, from the -- okay, so that would put us
24 about June of '96. At that time, I would say that she
25 -- we're talking behavior strictly?

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1 Q We can start with behavior, yes.

2 A Okay. She, at that point, I believe is, and
3 I'm, again, estimating, that we could no longer take
4 her with us to church, to restaurants, to shopping
5 malls. We attempted to, and it might have been during
6 that period that we were still trying to attempt to
7 take her out to public places that we could take her
8 before, but it was, for lack of a better word, it was
9 overwhelming for her. She would cry and withdraw and,
10 you know, she was, I guess you could say,
11 unmanageable.

12 She had -- began to develop repetitive
13 behaviors or showed, if you want to call it abnormal
14 interest in maybe lining up or stacking toys or books,
15 children's, like, board books.

16 Q When you say repetitive behaviors, what do
17 you mean?

18 A She would do the hand flapping. By
19 "repetitive," I mean like maybe she would, for
20 example, line up some toys and then leave them that
21 way and then, you know, distribute them a different
22 way and then line them up again. Those kind of
23 things.

24 Q Would you describe how Michelle's
25 socialization was with you or your husband was with

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1 you and your husband in the 6 to 12 months following -

2 -

3 A Six to 12 following?

4 Q Following your initial observation of these
5 behaviors.

6 A Of the fever, okay. Socially, she was
7 withdrawn. She did not respond to her name. It was
8 hard to interact with her. When we tried to do the
9 things that we could do prior to then with her, you
10 know, we couldn't do them or she was resistant, I
11 guess is the best way to phrase it.

12 Q Did she show any interest in interacting
13 with other people, notwithstanding you and your
14 husband?

15 A Very little, not really.

16 Q Did you observe her making more eye contact
17 with the television than with human beings?

18 A At that point, yes.

19 Q And during this time, how would she react to
20 the video of Sesame Street?

21 A She was engrossed in it.

22 Q What do you mean by "engrossed in it"?

23 A She would watch it and, I guess you could
24 say, tune everything else around her out.

25 Q Would you please describe any motor

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1 behaviors that you witnessed during this time period
2 that you now attribute to the autistic behaviors?

3 A The hand flapping, and I don't know if lack
4 of eye contact would be considered a -- is that a
5 motor behavior? If it is, I don't know what that
6 falls under, but I would say lack of eye contact and
7 hand flapping.

8 Q Do you know what hand regard is?

9 A Yes, I do.

10 Q And is it studying one's hand in front of
11 one's face and trying to study it?

12 A Yes, it is.

13 Q Did Michelle display hand regard?

14 A Yes, she did.

15 Q Did Michelle have shaking of her legs during
16 this time period?

17 A Uncontrollable shaking of her legs, or?

18 Q Any shaking of her legs that you attributed
19 to any sort abnormality?

20 A No, I'm not sure. You mean like did she
21 shake her legs --

22 Q Was she shaking -- were you -- did she shake
23 her legs that you felt was any kind of behavior that
24 was unusual with regard to her legs?

25 A Not that I recall.

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1 SPECIAL MASTER HASTINGS: Ms. Ricciardella,
2 let me interrupt you for just one second here to make
3 sure I understand what the time period we're talking
4 about is. Let me ask Mrs. Cedillo.

5 Are you understanding that you are now
6 talking about the 12-month period after the MMR
7 vaccination or which period do you think you are being
8 asked about?

9 THE WITNESS: I think I am being asked about
10 the period from the -- since the fever was on December
11 27, 1995, I think she means until December 27, '96.

12 SPECIAL MASTER HASTINGS: So the one year
13 after the fever?

14 THE WITNESS: For the full year, is that
15 correct?

16 MS. RICCIARDELLA: Correct, the full year,
17 and also -- and really into 1997. Up until her
18 diagnosis of autism.

19 THE WITNESS: Oh, okay, so we're -- okay,
20 because there were more behaviors starting in -- I
21 mean, I don't know exactly when they started, but --

22 MS. RICCIARDELLA: Okay, well, I was going
23 to go back, but --

24 SPECIAL MASTER HASTINGS: But the questions
25 you've asked thus far, I just wanted to make sure you

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1 were both -- you were asking about anything in the
2 year after the fevers and Mrs. Cedillo was answering
3 about anything in the year after. Okay, so we're on
4 the same wavelength. Very good. Go ahead.

5 MS. RICCIARDELLA: Thanks for the
6 clarification, sir.

7 THE WITNESS: Okay.

8 BY MS. RICCIARDELLA:

9 Q Now, you just testified that you were
10 answering in response to my question that you -- the
11 behaviors that you witnessed in Michelle until
12 December of 1996. What autistic behaviors did you
13 start to notice in Michelle from December '96 up until
14 her diagnosis of autism in 1997?

15 A Okay, probably most prominent was her lack
16 of vocalization or speech. Her withdrawn state, or I
17 guess you could say her lack of socialization,
18 interaction with her family, which is my mother and my
19 father and my husband and myself. And inability to
20 take her to public places. The hand flapping, and if
21 I didn't say, lack of eye contact. I'm sorry if I'm
22 repeating. Lack of eye contact. At that point.

23 Q And would you please describe Michelle's
24 language in the 6 to 12-month period following the --

25 A Following?

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1 Q Following the febrile episode, correct.

2 A Okay, 6 to 12 months following 12-27-95 --

3 Q Yes.

4 A -- there was no language.

5 Q No language at all?

6 A No.

7 Q Okay. What about in the period between
8 December of '96 to her diagnosis of autism in 1997?

9 A No.

10 Q And would you please describe Michelle's
11 play in that 6 to 12-month period following December
12 27, 1995?

13 A Her play was much the same. It was, well,
14 it's not really play, but it was watching Sesame
15 Street, recorded videos only, as opposed to the show
16 that, you know, that it would just come on on PBS. It
17 had to be certain recorded videotapes of Sesame
18 Street. So that was unusual. I'm sorry, so --

19 Q Let me interrupt you. So, if I'm
20 understanding, she would really only respond to DVDs
21 of Sesame Street rather than if it was on live on the
22 television, correct?

23 A That's correct. At that time, it was what
24 was recorded is what she preferred to watch.

25 Q Okay. Did you have certain DVDs of Sesame

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1 Street that she would watch all the time? The same
2 show?

3 A Yes. In the -- we're talking about the
4 after period, right?

5 Q Yes.

6 A Up to diagnosis?

7 Q Up to diagnosis.

8 A Okay.

9 Q Would she play with any toys?

10 A Very limited. She wouldn't play like,
11 again, the stacking ring, the shape sorter, those kind
12 of things, she wouldn't -- she might put the shape
13 sorter here and then line up the rings and line up
14 books, but nothing was actually played with like she
15 would before.

16 Q Now, Mrs. Cedillo, when did you first come
17 to think that the MMR vaccine may have caused her
18 autism?

19 A May have caused her autism?

20 Q Yes.

21 A Okay. That would be close to the time of
22 diagnosis. Actually, following diagnosis. So that
23 would be around August of 1997.

24 Q Now, you testified yesterday that you met
25 Dr. Andrew Wakefield at a 2001 Defeat Autism Now

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1 conference, is that correct?

2 A Yes.

3 Q And the acronym for Defeat Autism Now is D-
4 A-N, or DAN, is that correct?

5 A DAN, yes.

6 Q Okay. Had you heard of Dr. Wakefield before
7 that conference?

8 A Yes, I had.

9 Q How did you hear of him?

10 A On the internet and from other parents. I
11 guess I should say websites and other parents.

12 Q Was the 2001 DAN conference the first time
13 you had met Dr. Wakefield?

14 A I believe so.

15 Q Was it the first time you had ever talked to
16 him?

17 A I believe so.

18 Q Did you actually talk to him at that
19 conference?

20 A Yes, I did.

21 Q What did you tell him?

22 A I told him that I had a child that was very
23 ill, and that she had the same symptoms and manifested
24 the same way as what I had read online and the
25 children that he had treated -- well, I guess he

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1 didn't treat them, but that he had examined.

2 Q And what did he tell you?

3 A I -- excuse me, let me take a drink of
4 water. Okay. I asked him if there was anything we
5 could do because at this point she was having -- she
6 was already manifesting with the bowel problems, with
7 the diarrhea, and she was very sick. And I asked him
8 if there was anything that could be done. So he
9 suggested that I contact a pediatric
10 gastroenterologist, and he gave me the information
11 that I needed to -- medically speaking, what I needed
12 to tell the gastroenterologist to see if he was
13 willing to do that.

14 Q Did he recommend a pediatric
15 gastroenterologist?

16 A Not a name, no.

17 Q Have you ever exchanged e-mails with Dr.
18 Wakefield?

19 A Yes, I have.

20 Q Approximately how many?

21 A Boy, I don't have a number.

22 Q More than 10?

23 A Yes, more than 10.

24 Q More than 50?

25 A Probably more than 100 but less than 150.

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- 1 I'm guessing.
- 2 Q More than 100 but less than 150?
- 3 A I'm guessing.
- 4 Q Are you still in contact with Dr. Wakefield?
- 5 A Yes, I am.
- 6 Q Has he ever seen Michelle?
- 7 A He has physically seen her, yes.
- 8 Q Yes, he has?
- 9 A I mean, he has -- right.
- 10 Q How many times?
- 11 A Oh, how many times, I think just once.
- 12 Q Did you take her to Thoughtful House in
13 Austin, Texas?
- 14 A Yes, I did.
- 15 Q Is that where he saw her?
- 16 A Yes, it is.
- 17 Q Now, other than recommending that Michelle
18 see a pediatric gastroenterologist when you met him at
19 the DAN conference in 2001, has Dr. Wakefield ever
20 recommended any other treatment for Michelle?
- 21 A No, he did not.
- 22 Q Has he ever provided treatment for Michelle?
- 23 A No.
- 24 Q How many times has Michelle gone to
25 Thoughtful House?

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1 A Just one time.

2 Q And when was that?

3 A That was in November of 2006.

4 Q Now, why did you decide to contact Dr.

5 Arthur Krigsman?

6 A Because Michelle's bowel problems persisted,
7 continued to get worse, and I was not satisfied with
8 the care from the current at that time pediatric GI.

9 Q How did you hear of Dr. Krigsman?

10 A At a DAN conference and from another parent.

11 Q When did you first contact him?

12 A In, I believe, other than when I introduced
13 myself at the conference, if that counts at the first
14 contact, that would have been -- that probably would
15 have been October of 2002. Beyond that, the next
16 contact would have been January 2003 or somewhere
17 within a month's time to that.

18 Q So you heard Dr. Krigsman speak at a DAN
19 conference in San Diego in October 2002, is that
20 correct?

21 A Yes.

22 Q And did you speak with him after that
23 conference?

24 A Yes, I did.

25 Q Okay, what did you tell him?

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1 A I told him that I had a child that was very
2 ill and that she, again, was manifesting the problems
3 that he spoke of during his presentation.

4 Q What did he tell you?

5 A He asked me if we had a current
6 gastroenterologist, and I said, yes, we did, and he
7 told me that if I wanted he could call him, because I
8 asked him can you tell him what you found in the
9 children that you're seeing because I think Michelle
10 is very similar to the children that you've seen.

11 Q So if I'm understanding correctly, you met
12 him in October 2002, but your next contact with him
13 was January of 2003? Is that correct?

14 A Yes.

15 Q And what type of contact was that?

16 A By phone.

17 Q By phone. Okay. And if I understand your
18 testimony today, Dr. Kringsman is still treating
19 Michelle?

20 A He's still involved in her treatment.

21 Q Along with Dr. Ziring at UCLA as well?

22 A That's correct. Dr. Ziring is the primary
23 treating doctor. Dr. Kringsman is overseeing -- well,
24 I don't know. Yes, they're both involved in her care.

25 Q Now, Mrs. Cedillo, what is your

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1 understanding as to why Michelle's tissue samples from
2 her January 2002 endoscopy were sent to a laboratory
3 called Unigenetics in Dublin, Ireland?

4 A What is my understanding as to why?

5 Q As to why they were sent there.

6 A To determine if she had measles RNA in her
7 colon tissue.

8 Q Do you know how the samples were sent there?

9 A They were shipped.

10 Q Directly from the hospital?

11 A Yes. They were frozen and shipped. Well,
12 they were frozen when they were taken and then
13 shipped.

14 Q At the time did you know that the tissue
15 samples were being sent there?

16 A Yes, I did.

17 Q And what is your understanding of what
18 Unigenetics Laboratory is?

19 A It's a laboratory. I mean, it's a
20 laboratory. I don't know beyond that.

21 Q Fair enough. And who suggested to you that
22 you should send Michelle's tissue samples to
23 Unigenetics?

24 A It was actually my desire, my husband and
25 myself.

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1 Q And how did you hear of Unigenetics?

2 A How did I hear? I think I found it on-line
3 or from another parent.

4 Q When you say you found it on-line, what do
5 you mean?

6 A Probably from maybe a posting from another
7 parent. I can't remember where I very first heard of
8 Unigenetics, but I did hear directly from another
9 parent to send it there.

10 Q Okay. And approximately what time period
11 did you first hear of Unigenetics?

12 A Oh, that's hard. Let's see. Probably not
13 until around late 2001, maybe between that timeframe
14 and early 2002.

15 Q And do you know to whom the Unigenetics
16 results were sent?

17 A Do I know who? Oh, who received them?

18 Q Who received the results?

19 A Okay. The results or do you mean the
20 biopsies?

21 Q Once Unigenetics tested the tissue samples
22 and wrote a report, to whom did they send that report
23 or send the results?

24 A To Dr. Montes.

25 Q Okay. Did you ever see those results?

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1 A Yes, I did. I think I might have been faxed
2 a copy. Maybe it was U.S. mail. I can't remember for
3 sure. I did. We both got our copies around the same
4 time.

5 Q And did someone explain to you what the
6 results meant?

7 A Yes.

8 Q Who explained to you what the results meant?

9 A I believe it was -- well, Dr. Montes did.
10 Oh, I can't remember. I think -- no, I don't think
11 that's right. Dr. Montes did.

12 Q What did he say that they meant?

13 A He said it meant that she tested positive
14 for measles virus in her colon tissue, and he said he
15 would try to determine how he could treat her.

16 Q Now, Mrs. Cedillo, yesterday when you were
17 talking about the results received from Unigenetics
18 you stated, "It was information confirming to us what
19 we thought we had seen in her." What did you mean by
20 that?

21 A A normal developing, healthy child that
22 regresses and goes on to develop severe bowel symptoms
23 and, of course, autism.

24 Q Now, Michelle has had five endoscopies. Is
25 that correct?

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1 A Right. Some are upper only, and some are
2 lower and upper.

3 Q And the last one was in June of 2006?

4 A That's correct.

5 Q She's not had another one since?

6 A That's correct.

7 Q Is she scheduled to have another one any
8 time in the future?

9 A No.

10 Q Do you know? Has her cerebral spinal fluid
11 ever been tested?

12 A No, it has not.

13 Q And to your knowledge has Michelle ever been
14 treated with any antivirals?

15 A Does Tamiflu count? Is that an antiviral?

16 Q I don't know. I'm not sure.

17 A Okay. I don't know. Well, since the flu is
18 a virus, she was treated by her pediatrician with
19 Tamiflu with I think it's a five-day or three-day
20 dose, but I don't know if it's technically termed an
21 antiviral. I'm guessing that it might be.

22 MS. RICCIARDELLA: I have no further
23 questions.

24 THE WITNESS: Okay.

25 MS. RICCIARDELLA: Thank you.

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1 THE WITNESS: Thank you.

2 SPECIAL MASTER HASTINGS: Ms. Cedillo, I
3 know we've kept you here --

4 THE WITNESS: That's okay.

5 SPECIAL MASTER HASTINGS: -- a long time
6 yesterday and today. I just have a very few
7 questions.

8 THE WITNESS: Okay.

9 SPECIAL MASTER HASTINGS: I wanted to
10 clarify a couple items with you.

11 First just help me. The doctor, Dr. David
12 -- how do you spell his last name?

13 THE WITNESS: Ziring. It's Z-I-R-I-N-G.

14 SPECIAL MASTER HASTINGS: All right. And
15 what's his specialty?

16 THE WITNESS: Pediatric gastroenterology.

17 SPECIAL MASTER HASTINGS: Okay. Thank you.
18 And then I wanted to ask you about the testimony you
19 gave in response to Ms. Ricciardella's questions here.

20 THE WITNESS: Okay.

21 SPECIAL MASTER HASTINGS: She asked you
22 about the period first the year after the fever
23 incident and then extended that on into the next year,
24 and you talked about some symptoms that occurred
25 during that whole period.

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1 Now, did the symptoms change throughout that
2 period? Did they start low and get worse?

3 THE WITNESS: Yes, they did. Exactly what
4 you said. They started I would say on a low level and
5 continued to progress, or new symptoms came into the
6 scene.

7 SPECIAL MASTER HASTINGS: All right. You
8 also said in response to one of Ms. Ricciardella's
9 questions that you said in August of 1997, you first
10 began to -- which was just after the diagnosis of
11 autism, August of 1997, you first began to suspect
12 that there was a connection to the MMR vaccine. Is
13 that correct?

14 THE WITNESS: For the autism part, not for
15 the change in her. I want to clarify.

16 I had suspected the change in her had
17 something to do with the fever. I suspected that the
18 fever had something to do with the MMR, but as far as
19 the autism part, since we didn't have the diagnosis
20 until 1997 then that's when I started searching
21 further in a different format.

22 SPECIAL MASTER HASTINGS: So you began to
23 look for causes of autism at that time?

24 THE WITNESS: Autism and bowel disease and
25 related to a fever or MMR.

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1

SPECIAL MASTER HASTINGS: Who told you or

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1 where did you find some indication that an MMR could
2 be connected to these?

3 THE WITNESS: I read on-line, and that could
4 have been in 1998 because I can't remember the dates
5 of the papers when they came out, but Dr. Andrew
6 Wakefield had published around that time. It might
7 have been published in 1997.

8 I believe it was his very first paper and
9 maybe a subsequent follow-up describing the children,
10 and it was describing Michelle. In my mind, you know,
11 that was the first time. That's where I read it, I
12 mean.

13 SPECIAL MASTER HASTINGS: The first inkling
14 then was through your own on-line research?

15 THE WITNESS: That's correct.

16 SPECIAL MASTER HASTINGS: All right.

17 THE WITNESS: And then other parents
18 following that.

19 SPECIAL MASTER HASTINGS: And how did you
20 get in contact with other parents?

21 THE WITNESS: Through the internet, through
22 friends that I had already made who said, you know,
23 you should talk to this mom or dad. They have a child
24 just like your daughter. Maybe they can help you.
25 You know, that's how.

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1 SPECIAL MASTER HASTINGS: And tell us what
2 is DAN! that stands for Defeat Autism Now! Tell us
3 about that organization.

4 THE WITNESS: Okay. That's through the
5 Autism Research Institute, and they hold a conference
6 twice a year. At that time they were all in San
7 Diego. Now they move around the country.

8 That is looking at alternative views and
9 treatments for children with autism. I guess not
10 alternative medicine, but differing -- it's kind of
11 everyone coming together that has anything to do with
12 autism -- behavioral, medical, nutritional if you want
13 to try special foods.

14 It's all together in one, so it's kind of
15 like a one stop shop, so to speak. You can go and
16 listen to whatever speakers you want. If maybe your
17 child has more issues with behavior you could
18 concentrate on the behavioral speakers.

19 For me it was always with the
20 gastrointestinal part with Michelle, so that was the
21 focus at that point.

22 SPECIAL MASTER HASTINGS: All right. And
23 then the last question I have, again a follow-up to
24 one of Ms. Ricciardella's questions, is she asked if
25 it was you and your husband who decided to send the

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1 tissue samples to the Unigenetics Lab.

2 I guess I'm curious. I know from what
3 you've said I doubt that there's a good lab in Yuma,
4 Arizona.

5 THE WITNESS: Right. Okay.

6 SPECIAL MASTER HASTINGS: But I guess the
7 natural question is is there a lab in Phoenix, San
8 Diego or LA? How did you end up picking Unigenetics
9 in Dublin, Ireland?

10 THE WITNESS: Right. Yes, that would seem
11 very unusual, especially from Yuma, Arizona.

12 It was because of another mother that I had
13 met on-line and spoken to on the phone. I never asked
14 for an alternate lab, to tell you the truth. She said
15 if you want to get that done you need to get them to
16 ship it to this lab. Here's the address. Here's the
17 contact. I guess you could say I never looked for an
18 alternate lab.

19 SPECIAL MASTER HASTINGS: I'm not sure I
20 understood that answer.

21 THE WITNESS: Okay. How did I --

22 SPECIAL MASTER HASTINGS: What do you mean
23 by an alternate lab?

24 THE WITNESS: When she gave me the
25 information of where I could have the samples tested

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1 for the measles virus I said okay, I'll send it there,
2 you know.

3 SPECIAL MASTER HASTINGS: I see.

4 THE WITNESS: I didn't say --

5 SPECIAL MASTER HASTINGS: You weren't
6 looking for something closer?

7 THE WITNESS: Exactly. I didn't go say
8 well, let me see if there's one in Phoenix.

9 SPECIAL MASTER HASTINGS: Right.

10 THE WITNESS: Or let's see if there's one in
11 San Diego. I just said okay, we'll send it here.
12 These are the people doing this test.

13 SPECIAL MASTER HASTINGS: And were they
14 testing it for anything or for some particular? Were
15 they looking for something particular in your
16 understanding?

17 THE WITNESS: To my understanding they were
18 looking for the measles virus RNA.

19 SPECIAL MASTER HASTINGS: All right. Thank
20 you.

21 THE WITNESS: Okay.

22 SPECIAL MASTER HASTINGS: That's all that I
23 have. Thank you very much.

24 THE WITNESS: Okay.

25 SPECIAL MASTER HASTINGS: Ms. Chin-Caplan,

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1 anything more for this witness?

2 MS. CHIN-CAPLAN: No, Special Master.

3 SPECIAL MASTER HASTINGS: Okay. Mrs.

4 Cedillo, thank you again.

5 THE WITNESS: Okay.

6 SPECIAL MASTER HASTINGS: We put you through

7 a lot here.

8 THE WITNESS: That's okay.

9 SPECIAL MASTER HASTINGS: We really
10 appreciate your testimony.

11 THE WITNESS: You're welcome.

12 SPECIAL MASTER HASTINGS: You may step down
13 now.

14 (Witness excused.)

15 SPECIAL MASTER HASTINGS: Counsel, I
16 understand Dr. Krigsman is going to be testifying. Do
17 you want to start with him?

18 MS. CHIN-CAPLAN: It would be better if we
19 could just break for lunch and then go straight
20 through. Would that be all right with the Court?

21 SPECIAL MASTER HASTINGS: Is that all right
22 with the Respondent?

23 MR. MATANOSKI: That's fine for us, sir.

24 SPECIAL MASTER HASTINGS: Okay. Let's go
25 ahead and do that. It's high noon right now, so we'll

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1 reconvene at 1:00 p.m.

2 Again for you folks at home, we're going to
3 take a one hour break now and reconvene at 1:00 p.m.

4 (Whereupon, at 12:00 p.m. the hearing in the
5 above-entitled matter was recessed, to reconvene at
6 1:00 p.m. this same day, Tuesday, June 12, 2007.)

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1 A F T E R N O O N S E S S I O N

2 (1:05 p.m.)

3 SPECIAL MASTER HASTINGS: We're ready to go
4 back on the record here.

5 Dr. Krigsman has taken the witness stand.
6 Dr. Krigsman, would you raise your right hand for me?

7 Whereupon,

8 ARTHUR KRIGSMAN

9 having been duly sworn, was called as a
10 witness and was examined and testified as follows:

11 SPECIAL MASTER HASTINGS: Both of you please
12 speak up. Go ahead, Ms. Chin Caplan.

13 MS. CHIN-CAPLAN: Thank you, Special Master.

14 DIRECT EXAMINATION

15 BY MS. CHIN-CAPLAN:

16 Q Could you kindly state your name for the
17 record, please? I should wait until you pour your
18 water.

19 A Sorry about that. My name is Arthur
20 Krigsman.

21 Q Dr. Krigsman, what is your current business
22 address?

23 A 290 Central Avenue, Suite 204, Lawrence, New
24 York 11559.

25 Q Are you a physician?

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1 A I am.

2 Q Do you have a specialty that you practice?

3 A Pediatrics and pediatric gastroenterology.

4 Q Could you kindly give a brief description of
5 your educational background for the Court?

6 A Starting from undergrad?

7 Q From undergrad.

8 A I received a Bachelor of Science graduating
9 with honors at Johns Hopkins University. I went on to
10 medical school at SUNY-Downstate in Brooklyn. I was
11 there four years.

12 I did a three year general pediatric
13 residency at SUNY-Downstate/Kings County -- it's a
14 combined program -- and I did a three year fellowship
15 in pediatric gastroenterology after that at Mount
16 Sinai Hospital in Manhattan.

17 Q Since that time, have you practiced either
18 pediatrics or gastroenterology?

19 A Yes. Since that time I practiced general
20 pediatrics up until 2004. Actually 2005, early 2005.

21 At the same time as doing general pediatrics
22 I practiced pediatric gastroenterology from completion
23 of my fellowship until the present.

24 Q And do you have any board certifications?

25 A I'm board certified in general pediatrics

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1 and pediatric gastroenterology.

2 Q Doctor, you indicated that you practiced
3 pediatric gastroenterology concurrently with
4 pediatrics.

5 A Correct.

6 Q Can you tell us generally where you practice
7 pediatric gastroenterology?

8 A Well, upon finishing my fellowship at Mount
9 Sinai I practiced pediatric gastroenterology at Beth
10 Israel Hospital in New York, and I was there from 1995
11 until 2000. My title there was Director of the
12 Department of Pediatric Gastroenterology. It was
13 actually a department of one, and that was myself.

14 I did all the clinic work. I did all the
15 in-house referrals. I oversaw resident teaching.
16 Residents made rounds with me on the pediatric floors
17 and also were with me in the clinic. As well as
18 teaching pediatric residents, the adult GI fellows
19 were also routinely part of the pediatric
20 gastroenterology clinic services there at Beth Israel.

21 After 2000 the medical merger wave hit New
22 York, and a number of large hospitals banded together,
23 my understanding is in an effort to have greater
24 negotiating leverage with reimbursement, but because
25 of that all the part-time physicians at Beth Israel,

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1 those who were not full-time, were released, and they
2 only kept the full-timers. I was a part-time salaried
3 physician at Beth Israel, so at that point I left Beth
4 Israel.

5 Lenox Hill Hospital recruited me. Lenox
6 Hill Hospital in Manhattan recruited me. They called
7 me. Heard you're available. Would you come and join
8 us?

9 I was very happy to do that, and I assumed
10 the same type of position at Lenox Hill Hospital as I
11 had had at Beth Israel where I oversaw their entire
12 pediatric GI clinic and I did all their in-house
13 pediatric GI consultations.

14 Q How did you become interested in autistic
15 children and enterocolitis that they exhibit?

16 A The first patient I saw with autism and
17 gastrointestinal problems was sometime late in 2000.
18 I was a member of a pediatric practice, a general
19 pediatric practice in Woodbury, New York, with a
20 number of associates in the practice.

21 One of them is an allergist. He's a board
22 certified allergist, as well as a pediatrician, and he
23 had a number of children with autism that he followed
24 within our pediatric practice because he viewed them
25 as having an allergic disorder, and he would do

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1 allergy testing and allergy desensitization
2 techniques, either shots or nasal sprays to
3 desensitize them.

4 He referred me a few of his patients because
5 he was concerned that the parents all said that those
6 kids had this ongoing nasty diarrhea and seemed to
7 have abdominal pain, something he saw in a number of
8 patients, and he wondered if him and I working
9 together as associates within the same pediatric
10 practice, if I would be interested in evaluating them
11 from a gastrointestinal standpoint.

12 I told him that I would. I told him that I
13 did not think I would find anything wrong with them,
14 but I'd be happy to do the evaluation, which I did.
15 Those were my first patients.

16 Q And what were the clinical indications for a
17 referral to a GI doctor?

18 A Well, the gastrointestinal indications were
19 chronic diarrhea and abdominal pain. That seemed to
20 be going on for many years in these patients that he
21 initially referred to me.

22 Q Doctor, can you just generally describe the
23 workup that you did on this initial group of children?

24 A Well, it's a standard diarrhea workup. You
25 know, it's sort of the bread and butter of pediatric

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1 gastroenterologists.

2 You know, you look for cause for the
3 diarrhea. You look for dietary causes. You look for
4 the possibility of toddlers diarrhea. You look for
5 infectious diarrhea. You look for any underlying
6 metabolic abnormalities.

7 Most of those, if not all of those
8 possibilities, would be covered by some simple,
9 routine blood tests and a careful history and careful
10 physical examination.

11 Q And did you do this routine bloodwork and
12 examination on this initial group of children?

13 A I did.

14 Q And did you find anything that would lead
15 you to believe that it was related to this noninvasive
16 type of evaluation that you conducted?

17 A No. The evaluation, the standard evaluation
18 for diarrhea and abdominal pain type of diarrhea that
19 these children had, was unremarkable, and I had no
20 answer for these patients. And I told them that I
21 just don't know and left it at that.

22 Q So they didn't have any infectious sources
23 of their diarrhea?

24 A I'm sorry?

25 Q They didn't have any infectious sources of

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1 their diarrhea that you could determine?

2 A No. No, their stool cultures were negative.
3 I looked for parasites. These were the routine
4 measures that we would do for a workup to rule out
5 infectious diarrhea.

6 Q And you indicated that you took a history of
7 these children?

8 A Correct.

9 Q And was there anything in their history that
10 would indicate that their symptoms would be related to
11 dietary foods?

12 A Some of them did. Some of the parents
13 claimed that certain types of foods would cause
14 worsening of the diarrhea and worsening of the
15 abdominal pain.

16 Most, if not all, of the patients that
17 initially came to me, those first bunch of patients,
18 had already enacted some sort of restrictive diet that
19 they had heard about from their friends or heard about
20 at meetings or conferences.

21 But despite a variety of dietary
22 intervention, both those that were circulating amongst
23 the autism community at the time and also the more
24 standard dietary changes that a pediatric
25 gastroenterologist would put in place to try and

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1 determine if this is a toddlers diarrhea or if this
2 was other forms of innocuous diarrhea, those were all
3 done or attempted and didn't result in any
4 improvement, so I really didn't understand why these
5 children had diarrhea.

6 Q So what did you do next for these children?

7 A I told them goodbye.

8 Q And then what happened?

9 A And at that point -- well, probably it was
10 sometime in 2001 is how I recall it. I may be off by
11 a few months.

12 In 2001, the doctor who initially referred
13 these patients to me, my associate, showed me an
14 article written by Professor John Walker-Smith,
15 amongst others, describing exactly this group of
16 children that I had seen with identical histories,
17 meaning that they had autism, they had chronic
18 diarrhea, chronic abdominal pain.

19 They did the workup that I had essentially
20 done, and they had also come up with no diagnosis
21 based upon lab tests, history and physical exam. What
22 they did different was they considered the possibility
23 of an inflammatory bowel disease, which I had not
24 considered.

25 When I initially met with these children,

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1 the possibility of this being an inflammatory bowel
2 disease of some type didn't enter my mind because the
3 conventional teaching of the specific types of
4 diarrhea that you would have, meaning bloody or
5 microscopic or grossly visible blood, weight loss,
6 recurring fever, those symptoms were not present in
7 any of these children so I didn't entertain that
8 possibility, but the group at the Royal Free did.

9 They went ahead and performed a colonoscopy,
10 a diagnostic colonoscopy on a number of these
11 children. Specifically I think it was 62 of 63
12 children. They published their results in September
13 of 2000 in the American Journal of Gastroenterology.

14 What they demonstrated was that the majority
15 of those children who were in fact identical in
16 history, physical examination and laboratory
17 presentation to the ones that I was seeing, the
18 majority of those children there demonstrated this
19 nonspecific inflammation of the colon and of the very
20 end of the ileum.

21 I was shown that article, and I read it a
22 number of times. I paid attention to it because I
23 didn't know any of the authors on the article, but the
24 final author, the senior member of the group, the
25 senior investigator, Professor John Walker-Smith, is a

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1 world-renown pediatric gastroenterologist who is very
2 prominent, and it was his textbook that I had actually
3 used in my training to learn the pediatric
4 gastroenterology, so he was a name that I recognized.

5 It made an impression on me because again it
6 was exactly what I was seeing in my own office.

7 Q Doctor, you indicated that this was an
8 article that your colleague showed you?

9 A Correct.

10 Q You yourself did not see this?

11 A No. I did not make the effort to
12 investigate myself.

13 Q And you indicated that it was published in
14 the American Journal of Gastroenterology?

15 A That's correct.

16 Q Do you recall the year that it was
17 published?

18 A September of 2000.

19 Q September of 2000. So after you reviewed
20 this article what did you do then?

21 A So at that point I wondered whether some of
22 those or all of the patients I had initially seen and
23 didn't think I could help perhaps had this disease.

24 What was interesting, again just to go back
25 to that article, is that if the diagnosis in fact is

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1 an enterocolitis that's something that's treatable, so
2 that was what was so attractive about this finding is
3 that it offered something to these children that you
4 could do for them to make their quality of life that
5 much better.

6 I called these folks back and performed a
7 diagnostic colonoscopy on them, and to my great
8 surprise the pathologists that were reviewing the
9 biopsies that were obtained at those initial
10 colonoscopies were reading the same nonspecific
11 colitis that the pathologists at the Royal Free had
12 read and had been published. That was very
13 interesting.

14 Q Doctor, at this point in time did you do
15 colonoscopies on all the patients that you had
16 initially turned away?

17 A I don't remember if it was all of them or
18 how many, you know, were interested in pursuing that,
19 but many of them. Many of them.

20 Q And do you recall of the initial group how
21 many you actually did perform a colonoscopy on?

22 A I don't recall the number of the group. I
23 want to say it was seven or eight kids that initially
24 I said I wasn't interested and I can't help you.

25 I made the effort to call back all of them.

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1 I don't remember how many of them came back, but a
2 number of them followed through with it.

3 Q And did you continue to perform
4 colonoscopies on these children?

5 A Yes. You know, at that point we had a very
6 large pediatric practice, and certainly within our own
7 practice there were many children with autism who had
8 these same gastrointestinal symptoms.

9 In addition to that, this associate of mine
10 had a separate allergy practice in which he had a lot
11 of children with autism as well, so he would send
12 those patients my way if they had gastrointestinal
13 problems.

14 Q Doctor, how many colonoscopies did you
15 perform before you believed that there was some
16 connection between the child's autism and the
17 enterocolitis?

18 A I remember it being after my twenty-second
19 patient. I don't know why that's when the light went
20 off, but I remember seeing that twenty-second
21 pathology report.

22 You know, virtually all those first 22
23 showed identical findings, and that's when I concluded
24 that there's probably something going on in the bowels
25 of these kids.

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1 Q You said that they showed similar findings.
2 Could you describe to the Court what those findings
3 were that you were seeing?

4 A Well, the findings were both endoscopic --
5 in other words, when you have the colonoscopy within
6 the colon there's a certain appearance that the
7 mucosa, the lining of the bowel, has to the
8 endoscopist.

9 It's defined in terms of how red or pink it
10 is, pink being healthy color, red being unhealthy.
11 It's defined in terms of ulcerations in the lining of
12 the bowel. It's defined in terms of the degree of
13 vascularity and vascular markings in terms of the
14 smoothness of the surface. Those are all endoscopic
15 appearances that one can appreciate just visually
16 looking at the mucosa, the lining of the colon.

17 Then beyond that there's a microscopic
18 appearance of what the pathologist sees when they
19 examine the thin slices of biopsies that are obtained.
20 The biopsy findings that most of these children, the
21 majority, had were what would be called either chronic
22 or an active colitis or both, meaning whether the
23 types of inflammatory cells are lymphocytes or whether
24 they're neutrophils or whether they're eosinophils,
25 where they're located, how they're clustered. Those

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1 all go into determining if this would be labeled as an
2 acute or a chronic colitis.

3 There are also additional findings such as
4 cryptitis, which is highly characteristic of
5 inflammatory bowel disease and also others. I
6 shouldn't say just IBD, but cryptitis is a sign of
7 advanced -- a more advanced -- invasion of the lining
8 of the bowel and burrowing into the crypts. The colon
9 is full of these small crypts. That's premucous
10 primarily.

11 Cryptitis is a very characteristic finding
12 of a more advanced inflammation, and we saw those as
13 well. There were a few patients who have what's
14 called a crypt abscess, which is even the more
15 advanced level of colonic inflammation.

16 This first bunch of patients had varying
17 combinations of these findings.

18 Q What did you do after you did these
19 colonoscopies?

20 A After the colonoscopies were done and the
21 biopsies were reviewed by the pathologist I decided to
22 try treating this enterocolitis. Primarily it was a
23 colitis.

24 The term colitis, by the way just to
25 clarify, refers to inflammation of the colon. When I

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1 use the term enterocolitis, the term entero refers to
2 involvement of the small intestine as well, so an
3 enteritis would be small bowel inflammation. A
4 colitis would be colonic inflammation. An
5 enterocolitis would be both inflammation of the small
6 bowel and also of the colon.

7 When I saw these biopsies that demonstrated
8 enterocolitis, I decided I would treat them with oral
9 anti-inflammatory drugs, the same ones that are very
10 commonly used in inflammatory bowel disease. That's
11 what I was using at the very beginning.

12 My observations at that point where that
13 when these patients with biopsied proven enterocolitis
14 were started on these oral anti-inflammatory drugs
15 their symptoms markedly improved, meaning the diarrhea
16 markedly improved and their abdominal pain markedly
17 improved as well.

18 Q You indicated that you were treating them
19 with anti-inflammatories. The fact that they
20 responded to the anti-inflammatories, would that be an
21 indication that they were suffering from a form of
22 inflammatory bowel disease?

23 A It indicates that they were suffering from
24 intestinal inflammation. It doesn't prove that it was
25 in and of itself.

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1 Taken as an isolated observation, the
2 response to an oral anti-inflammatory drug, a
3 symptomatic response, an improvement in diarrhea, in
4 and of itself doesn't prove that the diagnosis is
5 inflammatory bowel disease.

6 What it does suggest is that the bowel
7 inflammation that's there of some type that's being
8 treated with an anti-inflammatory drug.

9 Q Now, at some point in time did Theresa
10 Cedillo contact you?

11 A Yes. I first met Theresa, as she testified
12 earlier today, at a conference, at a DAN! conference
13 that I had spoken at.

14 I think it was the October 2002 DAN!
15 conference -- well, I'm not sure -- in San Diego.
16 That's where I think it was though.

17 Q And do you recall what she said to you?

18 A Well, she came over to me and introduced
19 herself, and I remember the conversation only because,
20 you know, the story was a very sad one, and Michelle
21 sounded like a very sick little girl.

22 I remember hearing some of the details and
23 encouraging her to work with her pediatric
24 gastroenterologist who she was already associated with
25 locally.

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1 Q What was her response to that?

2 A She was happy to do that, and I offered to
3 be available, you know, to input any experience that I
4 had had in dealing with these children.

5 Q And did you speak to her local
6 gastroenterologist?

7 A At that point, no. He did not call me. Not
8 immediately.

9 A few months afterwards I did speak with him
10 on the phone. I don't recall if it was he that called
11 me or I that called him.

12 Q Okay. Do you remember what the substance of
13 that conversation was?

14 A We spoke a little bit about my experience
15 with these children and what I thought might be going
16 on in Michelle's bowel based upon the story that
17 Theresa had told me.

18 Q Okay. At some point in time did Mrs.
19 Cedillo contact you about evaluating Michelle?

20 A Yes. In the middle of 2003, either late
21 spring or summer of 2003, she called and she said that
22 Michelle was getting worse, that she had lost about 20
23 pounds over the previous six months. She wasn't
24 eating. What she was eating she was vomiting. Her
25 diarrhea had become unmanageable. She was sick. She

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1 was pale, and she was weak.

2 She was very concerned. At that point she
3 called me to let me know that this was going on.

4 Q And did she inquire about whether she could
5 come and see you?

6 A Yes. She indicated that she really wanted
7 to come and see me. What I told her was that it
8 didn't sound like it was a good idea because Michelle
9 did not sound like someone that should be traveling
10 across the country on an airplane in that condition.

11 She ended up being hospitalized locally in
12 Yuma, which you heard about this morning. She was
13 hospitalized for dehydration. She had evidence of
14 malnutrition as manifested by a vitamin K deficiency.

15 At that hospitalization she had placed a
16 surgical jejunostomy tube to ensure that she would be
17 able to get the calories that she needed to reverse
18 the malnutrition and the weight loss.

19 Q And did Michelle Cedillo eventually come to
20 you for evaluation?

21 A After she was discharged from that hospital
22 stay in July/August of 2003 she called and she said,
23 you know, we've been discharged, and she really would
24 like to come see me. That's what she did.

25 Q And when Michelle arrived did you conduct a

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1 physical and an exam of her? What did you do when
2 Michelle came for evaluation?

3 A Well, when she came the expectation was that
4 she would undergo another diagnostic endoscopy and
5 colonoscopy. The indication for that endoscopy and
6 colonoscopy was the dramatic worsening of her
7 condition over the previous few months.

8 With the previous endoscopy and colonoscopy
9 in January of '02, that was essentially normal and
10 didn't explain why she would have such dramatic
11 worsening of her GI symptoms, so the hope was that now
12 a year and a half later, a year and three-quarters
13 later, there might be some answers that the biopsies
14 or the colonoscopy might show.

15 That was the expectation. She came.
16 History, physical exam, which the history was again as
17 you've heard. The physical exam, she was a sickly
18 looking girl. She did not look well at all. The next
19 day she underwent the diagnostic endoscopy and
20 colonoscopy.

21 Q And what were the results of her colonoscopy
22 and endoscopy?

23 A The endoscopic appearance, the visual
24 appearance looking through the upper endoscope, was
25 one of this streaking lymphonodularity of the

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1 esophagus. She had a gastritis, meaning stomach
2 inflammation. She had --

3 On the colonoscopy she had a presence of
4 four ulcerations, which are labeled as aphthous
5 ulcerations. I want to define that term. The slide
6 is a bit later on.

7 She had four aphthous ulcerations of her
8 sigmoid colon that were photographed. In addition to
9 that, visually she had marked lymphoid hyperplasia of
10 the terminal ileum. Those are her endoscopic
11 findings.

12 On biopsy the only finding that was
13 demonstrated was this lymphoid hyperplasia of the
14 ileum.

15 Q And at this colonoscopy and the endoscopy
16 did you come to a conclusion whether Michelle had a
17 condition?

18 A Yes. I concluded, based upon her history,
19 based upon the presence of arthritis, which was known
20 at that point, and what appeared to be a uveitis,
21 although it was not yet diagnosed when I saw her, and
22 the appearance of these aphthous lesions of the colon,
23 taken in combination it's highly suggestive of some
24 form of inflammatory bowel disease.

25 If I had to choose one particular diagnosis

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1 at that point it would be Crohn's disease, but I was
2 hesitant to call it Crohn's at that point because it
3 didn't fit. It didn't have the diagnostic criteria
4 that would allow me to label it definitely as Crohn's
5 disease then, but I was quite sure that she had a
6 variant of some sort of inflammatory bowel disease.

7 Q Doctor, you mentioned inflammatory bowel
8 disease. Are there many inflammatory bowel diseases?

9 A Well, the term inflammatory bowel disease is
10 really an umbrella term, and it encompasses a number
11 of different diagnoses.

12 The two primary diagnoses that it
13 encompasses are ulcerative colitis and Crohn's
14 disease. There are, however, other diagnostic
15 entities such as an indeterminate colitis or
16 microscopic colitis that can technically fall under
17 that category.

18 You know, particularly the indeterminate
19 colitis is one where the features, the overall
20 presentation of the physical examination, is
21 suggestive of either Crohn's or ulcerative colitis,
22 but you don't get the tissue diagnosis or the x-ray
23 diagnosis that allows you to confirm with certainty
24 which one of those two diagnoses it is.

25 That happens fairly frequently in

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1 gastroenterology. When that happens, when the
2 clinician suspects that it's inflammatory bowel
3 disease but we are unable to label it definitely as
4 Crohn's or ulcerative colitis, it sort of goes into
5 the category of indeterminate colitis.

6 Many of those patients over the course of
7 time, it becomes clear which diagnosis they truly
8 have. Is it Crohn's, or is it ulcerative colitis or
9 something else?

10 Q So what is the distinction between
11 ulcerative colitis and Crohn's disease?

12 A A distinction. There are many. A
13 distinction of them is primarily as follows. In
14 ulcerative colitis you tend to get inflammation
15 limited to the lining of the colon. It doesn't
16 penetrate deep into the muscular layer of the bowel so
17 it involves the lining, and it's also contiguous
18 meaning it begins the inflammation always begins at
19 the anus and it extends proximally to varying
20 lengths.

21 In some people it can only involve an inch
22 or two of the rectum starting from the anus, in other
23 people it can involve the entire colon and in other
24 people it involves varying portions of the colon
25 anywhere in between the entire thing and almost

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1 nothing, but it always starts distally at the anus and

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1 extends proximally. There are no skip lesions.

2 You tend to have a contiguous inflammatory
3 pattern. That's a classic definition of ulcerative
4 colitis as opposed to Crohn's Disease which number
5 one, can occur anywhere from the mouth to the anus, so
6 unlike ulcerative colitis it occurs only in the colon,
7 perhaps the last inch or so of the ileum, but nothing
8 more proximal than that.

9 The Crohn's Disease can occur anywhere from
10 the mouth to the anus, anywhere in the
11 gastrointestinal tract. In addition, Crohn's Disease
12 is known to involve not just the interior lining of
13 the bowel, but even deeper layers and even perforate
14 the bowel and form a fistula of tracts between the
15 bowel and other organs.

16 In addition to that as opposed to ulcerative
17 colitis, as we just discussed that's contiguous,
18 Crohn's Disease tends to be patchy. You can have
19 abnormal areas, diseased areas of bowel that are
20 interspersed with areas that appear normal and that in
21 fact are normal to all the ways that we are testing.
22 So those are the three primary differences between
23 Crohn's and ulcerative colitis.

24 Q And you indicated after Michelle's
25 colonoscopy and endoscopy that her history of

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1 diarrhea, arthritis, the uveitis and the aphtous
2 ulcers lesions in the colon that you find were highly
3 suggestive of inflammatory bowel disease but you
4 hesitated to call it Crohn's. Can you tell the Court
5 why you did not believe you could make a definitive
6 diagnosis of Crohn's here?

7 A I hesitated to call it Crohn's because
8 Crohn's Disease, if you're a Crohn's purist you would
9 want specific findings to label it as Crohn's. You
10 would look for number one, a tissue diagnosis, a
11 biopsy, that demonstrated particularly something
12 called a granuloma.

13 A granuloma is a complex of inflammatory
14 tissue that has a very characteristic appearance on a
15 biopsy and pathologists are trained to look for that
16 and notify the gastroenterologist when it's present.
17 Most patients with Crohn's Disease in fact you don't
18 find the granuloma at biopsy, but when you do and the
19 clinical suspicion is high that is something that
20 would lead you to conclude that there's Crohn's
21 Disease.

22 In addition, a patient who has strictures or
23 fistulas, those are the classic protean manifestations
24 of Crohn's Disease and Michelle didn't have them,
25 although she had many other features of inflammatory

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1 bowel disease. From a physical exam point she had
2 uveitis, she had an arthritis, both of which are known
3 to accompany Crohn's Disease.

4 Those are well-documented, and well-
5 established and that's beyond dispute. She had them.
6 She had laboratory markers of inflammation such as the
7 ESR and the erythrocyte sedimentation rate. It's a
8 nonspecific marker of inflammation. It's not
9 diagnostic of bowel inflammation, but it's certainly
10 expected when you have Crohn's and ulcerative colitis.

11 She had elevated C-reactive protein, which
12 again, is another inflammatory marker that's
13 nonspecific. She had an elevated platelet count known
14 as thrombocytosis, which is also nonspecific, but she
15 had all of those in the presence of uveitis and
16 arthritis and aphthous ulcerations of the bowel with a
17 history of abdominal pain and diarrhea.

18 So that's what made me suspect Crohn's
19 Disease, but I was hesitant to label it as Crohn's
20 because I would have liked to see the absolute
21 characteristic and diagnostic features of Crohn's, and
22 in Michelle's case that was absent. I should add one
23 more thing. The most impressive lab test of all was
24 an elevated it's called OmpC, O-M-P-C, and it's outer
25 membrane foreign C. This is an antibody that's found

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1 in the blood of Crohn's patients.

2 The majority of Crohn's patients do not have
3 anti-OmpC, but the presence of anti-OmpC, in other
4 words the specificity of that lab test, in other words
5 how many times do you have positive OmpC and in fact
6 don't have Crohn's Disease is very small. So on top
7 of all the things I mentioned that made me clinically
8 suspect that this girl had an inflammatory bowel
9 disease she has an anti-OmpC, which is highly specific
10 for Crohn's Disease as well.

11 Q And after reviewing all the findings did you
12 decide on a course of treatment for her?

13 A So once we had the visual confirmation of
14 the aphthous ulcerations I was satisfied that I was
15 dealing with inflammatory bowel disease, an
16 indeterminate colitis is what I really wanted to call
17 it, and the designation is almost is not that
18 important because the treatment is really the same
19 anyway, so we don't go to extraordinary lengths to
20 confirm a diagnosis with this sort of situation.

21 Those things tend to resolve themselves over
22 time and the diagnosis ultimately becomes clear. In
23 Michelle's case it did and we'll get to that in just a
24 few minutes, I guess. I decided to treat her with a
25 combination of sulfasalazine, which is an oral anti-

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1 inflammatory drug. It acts topically on the lining of
2 the intestine.

3 I treated her with a steroid, Prednisone,
4 which of course is an anti-inflammatory drug. I also
5 treated her with a medicine called 6-MP, 6-
6 mercaptopurine, which is an immunosuppressant agent.
7 I chose that combination of drugs based upon the
8 degree of illness that Michelle had.

9 This dramatic weight loss, this inability to
10 tolerate food by mouth is a necessity for a feeding
11 jejunostomy tube, the uveitis, the arthritis, the
12 horrendous diarrhea, the intensity of all of it, and
13 also the fact that this family was really out in the
14 wilderness of Yuma. All those things made me want to
15 ensure that we got this disease under control very
16 quickly.

17 Q And, doctor, you're in New York and Ms.
18 Cedillo and her family, Michelle, were living in
19 Arizona. That's a problem, treating her long
20 distance.

21 A That's a big problem. It's a testimony to
22 Theresa and her obvious endurance and desire to help
23 her child. You know, I had encouraged her to find
24 someone local that would be able to see Michelle, that
25 would be able to understand the illness, that would be

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1 available, that would look at Michelle as having bowel
2 inflammation and treating it, and she made every
3 effort to do that.

4 It took her a while to find the right
5 people, but during the period of time that she was
6 searching she really didn't have any other available
7 gastroenterologist that was willing to prescribe these
8 medications because they saw the disease the way that
9 I did. So I ended up working very closely with her
10 pediatrician who was very, very cooperative, and
11 together we managed Michelle in the early part after I
12 had seen her initially.

13 Q Now, you indicated that you ordered
14 sulfasalazine, Prednisone and 6-MP. Are those all
15 drugs that are standard in the use of inflammatory
16 bowel disease?

17 A Yes, they are.

18 Q And to your knowledge did Michelle improve
19 on this medication?

20 A Yeah. Her clinical symptoms improved
21 markedly. Her stools, you know, the horrendous
22 diarrhea which you've heard so much about, either I
23 don't recall if it disappeared and they became normal
24 or if the frequency went down to once a day and became
25 almost normal, but clearly it was not the eight or

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1 nine liquidy stools anymore. That was a dramatic
2 quality of life improvement.

3 The pain, the irritability, the crying, the
4 self-abusive behaviors and also her arthritis, the
5 degree of swelling of the joints and her ability to
6 ambulate at least to some extent all improved.

7 Q Now, doctor, Prednisone. Is that a drug
8 that a person can remain on long-term?

9 A Prednisone given over the long-term will
10 almost always if not always produce toxicities, so
11 Prednisone is not a drug that you want to have someone
12 on long-term unless you absolutely have no other
13 choice.

14 Q And did you try to wean Michelle off her
15 Prednisone?

16 A A number of times we tried to wean her off
17 it. My hope was that because she was on 6-MP, and
18 because she was on sulfasalazine and because we had
19 started a enteral, an elemental enteral formula,
20 meaning a school of thought in Crohn's Disease that
21 one way to treat it is by decreasing the antigenic
22 stimulation to the bowel from dietary factors so that
23 you give an elemental formula, a formula which is
24 broken down to its elemental parts, there are no
25 complex proteins in the formula to act as antigens,

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1 that's one way to

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1 treat IBD and Crohn's as well, and we had that going
2 through the J-tube at that time.

3 My hope was that between the enteral
4 feedings, the elemental feedings, the prednisone and,
5 sorry the the 6-MP and the sulfasalazine we would be
6 able to get her off Prednisone. We found that
7 whenever we got her below a certain threshold dose the
8 symptoms returned, so she was demonstrating what we
9 call steroid dependency.

10 Q What did you decide to do then when it was
11 clear that she was steroid dependent?

12 A Well, at that point, you know, what you
13 normally try and do is you want to maximize the
14 sulfasalazine that a patient gets and maximize the 6-
15 MP. You know, maximize the nonsteroid drugs in the
16 hope that you can eliminate the steroids. With
17 Michelle when we tried to do that a lab test called
18 the lipase, L-I-P-A-S-E, lipase became elevated.

19 Lipase is most frequently an indicator of
20 pancreatitis. Not exclusively, but when you see an
21 elevated lipase the first thing you think of is the
22 pancreatitis 6-MP. One of the known complications of
23 6-MP is that it can cause a pancreatitis in many
24 people, and pancreatitis can be a nasty illness that
25 could become chronic.

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1 So I don't recall that we had ever obtained

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1 a baseline lipase. In other words no one had ever
2 drawn that particular lab test prior to her starting
3 on 6-MP, but most clinicians once they start a patient
4 on 6-MP will monitor the lipase at regular intervals
5 just to make sure that there is no pancreatitis that's
6 forming.

7 So when we did that we found that Michelle's
8 lipase was markedly elevated. The immediate and
9 recommended response to that is to discontinue the 6-
10 MP, which is what we did. Now she's off 6-MP, and
11 she's again stuck with the Prednisone, and the
12 sulfasalazine and the enteral feedings all the while
13 demonstrating some Prednisone toxicity.

14 Q What did you do then?

15 A So at that point is that it was clear that
16 she needed to come off Prednisone yet she needed it to
17 function. The next step in that type of patient is to
18 go to the next class of immunosuppressive drugs.
19 There's a newer class that was introduced about 10
20 years ago, and it's called anti-TNF, anti-tumor
21 necrosis factor, drugs. TNF is a cytokine, it's a
22 molecule, and it's a product of lymphocytes and it's a
23 molecule that is particularly active in excess in
24 patients with Crohn's Disease.

25 This drug was developed in the last 10 years

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1 or so, maybe 11, 12 years, that acts to block the
2 effects of TNF so that TNF is not able to stimulate an
3 inflammatory response. And that's it. It's a new
4 class of immunosuppressants, but it's very effective,
5 very, very effective in those diseases that involve
6 TNF as the mediator of inflammation.

7 Using an anti-TNF agent is very, very
8 effective in bringing about clinical improvement.
9 That was the next step for Michelle. The trade off is
10 that along with its therapeutic efficacy because of
11 it's potent immunosuppressive capacities therein lies
12 the potential for side effects so that when you
13 immunosuppress a patient too much you get a whole host
14 of potential side effects.

15 That of course goes into your decision in
16 whether to start this drug or not. Clearly, Michelle
17 was a candidate for this drug because there was no
18 other choice. It's a widely used drug, but this is
19 the thinking that clinicians go through before
20 deciding to use it. At this point she was at a state
21 where she needed this anti-TNF drug. It's most
22 commonly known as Remicade as a trade name.

23 The decision was made to institute Remicade
24 therapy.

25 Q And did Michelle respond to the Remicade?

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1 A Yeah. She did very well with that,
2 actually. It markedly improved her diarrhea again
3 because once the 6-MP was stopped her diarrhea really
4 became horrendous and so did her arthritis. When
5 Remicade was begun, I don't recall the exact date it
6 was started, but when it was begun it produced again
7 this marked improvement in both her diarrhea, her
8 abdominal pain and the arthritis.

9 Q We've heard testimony that at some point in
10 time the Remicade had to be stopped. Is that true?

11 A That's correct.

12 Q What was your understanding of why the
13 Remicade had to be stopped?

14 A It was stopped because she had a seizure.
15 It wasn't her first, it was one of her many seizures,
16 but this one occurred while she was standing and she
17 fell. She sustained a fracture to her I think it was
18 a tibia, fibula fracture I think, and it required
19 immobilization, and screws, and casting and you've
20 heard the story from Theresa. There was concern from
21 the orthopaedic surgeon who was responsible for the
22 bone healing that the Remicade may interfere.

23 There's some evidence that Remicade has the
24 potential to interfere with bone healing. In fact, in
25 Michelle's case the bone healing took a very long

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1 time. The concern was, well, the intent was to
2 eliminate all the potential confounding factors that
3 might inhibit the healing of that bone, so the
4 Remicade was discontinued.

5 Q Doctor, at some point in time you had
6 suggested earlier to Ms. Cedillo that she get a local
7 gastroenterologist, correct?

8 A Correct.

9 Q And at some point in time did she eventually
10 do so?

11 A Yeah.

12 Q Did you communicate with that
13 gastroenterologist?

14 A Absolutely.

15 Q Do you know who that gastroenterologist was?

16 A The one that Theresa had met with that she
17 liked was Dr. Donna Ursea at Phoenix Children's
18 Hospital.

19 Q To your knowledge did Dr. Ursea conduct some
20 additional diagnostic testing of Michelle?

21 A Yes. So Dr. Ursea wanted to establish a
22 baseline, this is now 2006, of the status of
23 Michelle's bowel disease. She performed an upper
24 endoscopy, a colonoscopy and also a pill camera study
25 of the small bowel.

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1 Q You mentioned a PillCam. What is a PillCam?

2 A A pill camera is exactly what it sounds
3 like. It's a camera, but it's the size of a small
4 pill and it's designed to be swallowed.

5 Q When you swallow the pill, what does it do?

6 A What the PillCam does, it takes two photos
7 per second as it traverses its way through the upper
8 gastrointestinal tract so that the moment you swallow
9 it you've begun to photograph the esophagus, the
10 stomach and the small intestine. It has a battery
11 life of eight hours, which is usually long enough for
12 the pill to make its way all the way through to the
13 small bowel and to the colon. It's designed to
14 image --

15 The PillCam is designed to image primarily
16 the stomach but the small bowel as well. That's what
17 was used in Michelle's case.

18 Q Doctor, you mentioned a few words here that
19 I'd like you to explain to the Court. You mentioned
20 that when you did the endoscopy of Michelle she had
21 some aphthous ulcers?

22 A That's correct.

23 Q Can you tell the Court what an aphthous
24 ulcer is?

25 A Well, now would be the time to show the

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1 slide that I've prepared. Also, can I ask for a laser

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1 pointer?

2 SPECIAL MASTER HASTINGS: Just for the
3 record, Dr. Krigsmann, Dr. Aposhian is going to be
4 showing some slides, we've got the first one up on the
5 screen, and a paper copy of the slide is going to be
6 filed into the record by the Petitioner.

7 Go ahead, Ms. Chin-Caplan.

8 Mr. Homer, did you folks give a copy of the
9 slide to the court reporter as well?

10 MR. HOMER: No. I'll give her one now.

11 BY MS. CHIN-CAPLAN:

12 Q Doctor, I had asked you what is an aphthous
13 ulcer?

14 A Excuse me. Before we define an aphthous
15 ulcer I want to first define a few other terms that
16 I've used this afternoon, and that would give us a
17 foundation to understand what an aphthous ulcer is.
18 So the first slide, the definition of an ulcer in
19 general. This is from a standard pathology textbook
20 that is widely used in this country in medical
21 schools.

22 I used it when I was in medical school.
23 This is the definition and the photograph from the
24 electronic version of the textbook. An ulcer is a
25 local defect of the surface of an organ produced by

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1 the shedding of inflammatory necrotic -- necrotic
2 means dead -- tissue. Ulceration can occur only when
3 tissue necrosis and the resultant inflammation exist
4 on or near the surface.

5 I'm going to use the laser pointer to
6 demonstrate on the slide on the screen behind me.
7 This area over here is the lining of the organ, and
8 this hole is the ulcer. So it's kind of punched out
9 and it's a crater. An ulcer can involve either a
10 shallow ulcer, which this is the absolute external
11 lining of the organ, or it can go deeper and penetrate
12 deeper layers.

13 Depending on the organ and what layers are
14 there an ulcer can extend to various depths. In the
15 case of the gastrointestinal tract if the process of
16 ulceration goes deep enough it can perforate, it can
17 go all the way through, and that causes all kinds of
18 horrendous complications. That's an ulcer. This is a
19 kind of ulcer.

20 The same type of process would be seen in
21 classic acid-related diseases of the stomach where the
22 erosive entity is stomach acid and that's causing the
23 erosion and then ulceration. Many drugs can cause
24 this as well, aspirin, other nonsteroidal anti-
25 inflammatories. The reason why they can injure

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1 stomach, which many of us are aware that it does in
2 the corresponding case, is because for a variety of
3 reasons it ends up ulcerating the lining of the
4 stomach. That's what an ulcer is.

5 Q Now, doctor, you had also mentioned the term
6 lymphonodular hyperplasia.

7 A Okay. Let's look at the next slide. This
8 is an example of the lymphonodular hyperplasia that we
9 talked about. On the slide on the left, this is a
10 photograph that I took of a patient. This is a colon.
11 The colonic mucosa is typically smooth, and here we
12 see the presence of these small, little bumps. Can
13 you appreciate that. There's small, little nodules
14 that are present beneath the surface. These are
15 submucosal. They're below the mucosal level.

16 Because of their size they cause a small
17 protrusion. I don't want to get into the issue now
18 whether this is considered always normal, or always
19 abnormal, or sometimes normal, sometimes abnormal. I
20 want to avoid that issue for now. I just want to show
21 the picture of what the entity is. This would be the
22 microscopic appearance of lymphoid hyperplasia.

23 What you see here is this is lymphoid
24 tissue. This is the collection of primarily B
25 lymphocytes, and they're coalescing. They're not

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1 encapsulated, they're kind of loosely formed and they
2 form a nodule. This mass is what causes the pushing
3 out or the protrusion that you see here that's
4 evidenced as the nodule.

5 This lower arrow, it shows another lymphoid
6 nodule here, and the tail portion at the center is
7 called the germinal center. A germinal center is the
8 area of the lymphoid nodule that's actively
9 replicating. The function of lymphoid nodules, of
10 lymphoid tissue in general but those of the intestine
11 is to detect anything that the immune system sees as
12 foreign.

13 Lymphoid nodules are part of the overall
14 immune system of the bowel. It detects anything it
15 sees as foreign, and that could be a virus, it could
16 be a bacteria, it could be a fungus, it could be a
17 food allergen.

18 Whatever comes its way that it sees as a
19 threat it goes through a series of processes that
20 initially involve the lymphoid nodule, and when it
21 does that the lymphoid nodule is stimulated to produce
22 and replicate B cells, which is the subpopulation of
23 lymphocytes, and those B cells are the area of rapid
24 replication is that germinal center. This is the
25 normal immune response to any sort of invading

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1 pathogen.

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1 When you have those active germinal centers
2 that would cause even further enlargement of the
3 lymphoid nodule. The photograph on the left would
4 show even more prominent lymphonodularity because the
5 underlying lymphoid nodule is now bigger because of
6 the presence of this hyperactive germinal center.

7 Q Was it your testimony that you found
8 lymphonodular hyperplasia in Michelle's colon?

9 A Yes. In her colon, but it was most
10 prominent in the terminal ileum, which is an area
11 that's most rich in lymphoid tissue.

12 So if you would take a look at the density
13 of lymphoid nodules throughout the bowel the terminal
14 ileum is the area which is most dense, has the most
15 lymphoid activity, so that when you have lymphoid
16 hyperplasia, when you have an allergic response, when
17 you have a bacterial infection, you would expect that
18 the region of the bowel that most manifests that in
19 terms of lymphonodularity would be the terminal ileum.

20 Q And, doctor, the presence of the
21 lymphonodular hyperplasia, would that be an indication
22 that there was some process in Michelle's bowel that
23 was causing the inflammatory bowel disease?

24 A Well, it suggests that the immune system is
25 recognizing something and responding to it

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1 appropriately.

2 Q Would that something be some sort of
3 infectious agent?

4 A It could be.

5 Q Now, doctor, you included on your next three
6 slides definitions of aphthous ulcers.

7 A Okay.

8 Q Could you kindly tell the Court the reason
9 why you included these definitions?

10 A Yeah. Michelle's finding on her PillCam
11 study was one of aphthous ulcerations, and I wanted to
12 give the Court the definition of an aphthous ulcer.
13 We know what an ulcer is, and we know what lymphoid
14 hyperplasia is. The aphthous ulcer -- and this is
15 taken from a standard gastroenterology textbook, and
16 it's also widely used and it's accepted as
17 authoritative. I don't know anyone who wouldn't
18 consider it to be authoritative.

19 The definition reads that the earliest
20 characteristic lesion of Crohn's Disease is the
21 aphthous ulcer, meaning that Crohn's Disease starts
22 off as being an aphthous ulcer. That is the earliest
23 lesion seen in the disease. That the horrendous
24 manifestations of Crohn's Disease is the deep ulcers,
25 the fissures, the fistula, the strictures, all begin

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1 as an aphthous ulcer.

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1 These superficial ulcers are minute. They
2 range in size from barely visible to three millimeters
3 and they're surrounded by a halo of erythema. So this
4 is the endoscopic appearance. The appearance to the
5 clinician who has the scope in the colon is that you
6 see an ulcer, a bit of a depression and there's a halo
7 of redness -- erythema is redness -- that surrounds
8 this ulcer.

9 Now, in the small intestine the aphthous
10 ulcers arise most often over lymphoid aggregates.
11 That is a characteristic feature of the aphthous ulcer
12 is that it occurs specifically over a lymphoid nodule
13 with destruction of the overlying M cells. The colon,
14 the definition continues, the aphthae can occur
15 endoscopic.

16 So the visual appearance in the colon you
17 might not be able to appreciate ulceration like you
18 can in the small bowel, but still even in the colon
19 they occur over these lymphoepithelial complexes or
20 lymphoid nodules, lymphoid aggregates. Okay. That's
21 the first definition.

22 The second definition, which is the same
23 definition just from another source, from a standard
24 pathology textbook that will be used for the first
25 slide, "a characteristic sign of early Crohn's Disease

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1 is focal mucosal ulcers resembling canker sores,
2 aphthous ulcers, edema and loss of the normal mucosal
3 texture. With progressive disease mucosal ulcers
4 coalesce into long serpentine linear ulcers which tend
5 to be oriented along the axis of the bowel. Narrow
6 fissures develop between the folds of the mucosa."

7 Now, that's in bold font because what I'm
8 going to show you in a few minutes is that Michelle's
9 pill camera demonstrates that not only does she have
10 the appearance of aphthous ulcers on her PillCam
11 study, but there is some excellent quality photographs
12 of the orientation of these ulcers, the linear
13 orientation of these ulcers within the fold of the
14 small bowel. So it fits the definition of the early
15 lesions of Crohn's Disease to a T.

16 Again, in more advanced disease it
17 penetrates deeply through the bowel wall. Now, the
18 earliest lesion in Crohn's Disease appears to be focal
19 neutrophilic infiltration into the epithelial layer,
20 particularly overlying mucosal lymphoid aggregates.
21 Again, in bold because that's what we're going to be
22 showing you Michelle had.

23 The third definition, which is identical
24 also, I've just scanned this from -- this is a very,
25 very interesting paper published in the Journal. It's

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1 not from a textbook, but I included it here because
2 this goes back as far as 1980. So this is not new
3 information, this is old information. This study was
4 landmark in that it demonstrated it defined and
5 described an aphthous lesion and compared it to
6 electron microscope studies, so it proved the
7 ultrastructural finding.

8 It went beyond what you see with a regular
9 light microscope, and it correlated it with an even
10 finer ability to see small structures. Again, the
11 definition that they go by when they did this work was
12 if you look at the last sentence an almost constant
13 feature of these minute lesions is active
14 proliferation -- I'm sorry. Go back up. The second
15 sentence.

16 The lesion is typically located over an
17 aggregate of lymphocytes and the basal portion of the
18 lamina propria. Again, same definition. What this
19 adds what this adds which we didn't see in the two
20 definitions before was that an almost constant feature
21 of these minute lesions is active proliferation of the
22 epithelium at the ulcer margin, an apparent attempt at
23 healing. That's another characteristic of the
24 aphthous ulceration. That's what this is.

25 Q Doctor, do you have a photograph of an

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1 aphthous ulcer to show the Court?

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1 A The next slide will demonstrate using the
2 same slide I showed you before, we're taking it from a
3 textbook, of a lymphoid nodule, and I'll just use my
4 laser pointer again on the screen behind me, if this
5 is the lymphoid nodule that's causing the protrusion
6 of the overlying epithelium into the lumen of the
7 bowel the aphthous ulcer would then be ulceration of
8 the mucosal lining that overlies those lymphoid
9 nodules and lymphoid follicles.

10 That would be a definition of the aphthous
11 ulcer. So when you're looking at an aphthous ulcer
12 you would like to be able to identify an underlying
13 lymphoid nodule either visually with a good quality
14 photograph or histologically from a tissue specimen
15 under the microscope.

16 Q Doctor, you obtained this through what
17 procedure?

18 A Obtained what?

19 Q You are able to determine that an aphthous
20 ulcer exists through what procedure?

21 A Well, in Michelle's case the earliest
22 indication of her having aphthous ulcers was on a
23 colonoscopy that I did in 2003, September of 2003.

24 Q Okay. And, doctor, a colonoscopy again is
25 what?

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1 A Colonoscopy, I have a slide just to
2 demonstrate what that is to make sure that everyone
3 understands. This is also a classic. It's the
4 cartoon of the intestine. The area in pink is the
5 colon. You see the scope entering at the anus and
6 going all the way around the colon. The tip of the
7 scope emits a very bright light using fiber optic
8 technology.

9 What is seen at one end of the scope is
10 transmitted and displayed on the video monitor that
11 the endoscopist looks at, so you see the images in
12 real time. So we did a colonoscopy on Michelle in
13 2003, and the photograph on your left, I'm sorry on
14 your right, these two photographs are from the
15 colonoscopy that I did on Michelle in 2003.

16 What you see here are classic colonoscopy
17 appearances of an aphthous ulcer. You have a central
18 white area with a surrounding red halo of erythema.
19 Now, one could argue using the definition of there
20 being an underlying lymphoid nodule how do you know
21 that this is underlying lymphoid nodule? Maybe this
22 is just a regular depressed ulcer.

23 That's a good question, but other
24 photographs here suggest, this one in particular, that
25 there is a protrusion into the bowel lumen and

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1 surrounding erythema. There's another one over here.
2 This is the central area with ulceration. Now, again,
3 you really can't appreciate the ulceration from these
4 photographs. The colonoscopy generally does not have
5 the resolution to allow you to see very small
6 epithelial ulcerations.

7 Sometimes you can see it, but very often you
8 can't. In these photographs there's no clear evidence
9 that there is an ulceration going on, but there's
10 clearly a nodule, the surrounding erythema. These I
11 call aphthous ulcers, and there are four of them. On
12 the photo on the left you'll see a photograph that was
13 obtained by Dr. Ursea in 2006 of Michelle's colon and
14 you'll see again the central either nodule or ulcer,
15 it's hard to tell from this photo, with surrounding
16 erythema, the redness.

17 I want to point out, also, that when you
18 look at these photos when you have erythema around
19 these inflamed ulcers/nodules, when you have that the
20 erythema does not tend to have a sharply demarcated
21 border. It just kind of fades out and dissipates as
22 it moves further away from that central lesion. That
23 would be distinct from an ulcer, which you would
24 expect to demonstrate a very sharply demarcated
25 border.

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1 I make this point now because the PillCam
2 photos will show a sharply demarcated border, and
3 that's how I know that what the PillCam is showing in
4 the small bowel is an ulcer which is really not
5 appreciated in these photos.

6 Q Doctor, you mentioned a PillCam. What is a
7 PillCam?

8 A The PillCam is a demonstrated in this slide.
9 The photograph on the left is a close up view of it
10 manufactured by Given Imaging in Yokneam, Israel, and
11 it's a capsule with a clear dome lens. Those four
12 white rectangles on top are the eye source. They
13 flash twice per second. They take a photograph. The
14 black circle between them is the photographic lens.

15 Just to give you an idea of the size and a
16 perspective on that is a photograph of somebody
17 holding it between their fingers.

18 Q Doctor, who performed the PillCam on
19 Michelle?

20 A The PillCam was done in 2006 by Dr. Ursea at
21 the same time that she performed an upper endoscopy
22 and colonoscopy. So at that colonoscopy there was
23 this apparent aphthous ulcer seen in her colon.

24 Q And did you have an opportunity to review
25 this PillCam yourself?

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1 A Yes. I reviewed it way back when soon after
2 it was performed, and we'll discuss that in just a few
3 moments.

4 Q Are these photos of Michelle's PillCam that
5 was done by Dr. Ursea?

6 A No. This slide is just to give the Court an
7 idea about what a PillCam photo would look like of an
8 aphthous ulcer. These photos were taken off the Given
9 Imaging online atlas. They provide
10 gastroenterologists with online photographs that are
11 demonstrative to help us clinically. These are
12 downloaded from their website, free photos of
13 examples.

14 The atlas labels it as aphthous ulcers in
15 Crohn's Disease. What you see here, again, that
16 central tail lesion, the surrounding halo of erythema
17 or redness. Same thing you see over here, the central
18 lesion. Hard to tell from these photos if there's a
19 depressed ulcer there or if it's projecting in the
20 lumen surrounding erythema. The same thing over here.
21 The central lesion with surrounding erythema.

22 The next slide shows what Michelle's PillCam
23 photos show, and you will notice how identical these
24 lesions are to the lesions that the atlas identifies
25 as aphthous lesions of Crohn's Disease. Central

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1 lesions, surrounding erythema here as well. The blue
2 arrows are pointing to the lesions that are of
3 interest to us.

4 The upper left in each frame tells you the
5 time that's elapsed since the beginning of the study,
6 so we see that this is multiple locations. This is
7 three hours and 16 minutes, this is a minute later and
8 this is over two hours later, giving you the idea that
9 these aphthous lesions are scattered throughout her
10 small bowel.

11 Q Doctor, so the slides that you have up here,
12 the photographs that you have, this is the passage of
13 the PillCam through her small bowel?

14 A Right. Right.

15 Q And how rapidly does this passage take?

16 A It depends on a number of factors, mostly on
17 the motility of the bowel. The way the bowel works,
18 it has what is called peristalsis, so it propels
19 things forward from top to bottom by a series of
20 sequential contractions of the smooth muscle of the
21 bowel wall. There are many diseased states that
22 affect the peristalsis of the bowel.

23 Some diseased states make the transit time
24 quicker so things move through very rapidly. Other
25 diseased states affect it the other way, they make

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1 transit time slower and it could take many, many hours
2 to pass through the bowel.

3 Q And in Michelle's case there was a passage
4 of almost two hours between the initial findings of
5 aphthous ulcer and the later finding?

6 A More than that because her initial findings
7 were very early on. We'll show some more slides
8 coming up. This is another example of the central
9 nodule, the lesion, and here you get the sense that
10 there's erosion. There's more of a sharply demarcated
11 border, this is different from the photograph of
12 erythema that we saw in the picture of the pink in the
13 colonoscopy that didn't have that sharp demarcated
14 border. These have a distinct impression of a sharply
15 demarcated border of an erosion.

16 Q You indicate that this is a picture of the
17 colon.

18 A I'm sorry. This is the small bowel. The
19 photos before it that we showed, the first photo of
20 the aphthous ulcer of the colon, what I meant to say
21 was that surrounding rim of erythema did not have a
22 sharply demarcated border. So when you're dealing
23 with erythema or redness you don't expect to see a
24 sharply demarcated border, but when you're dealing
25 with an ulceration you do expect to see a sharply

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1 demarcated border, which is what this photograph
2 shows.

3 There are even better examples in the slides
4 to come. Again, these are all examples taken from
5 Michelle's PillCam study. I want you to look at the
6 black arrow. The black arrow is a -- The four
7 photographs, one, two, three and four, are sequential,
8 so they're taken over a period of two seconds. Again,
9 it's one photograph per every half second. What
10 you're seeing over here is again the central area of -
11 - this appears, too, to be a raised nodule with
12 surrounding again area of erythema and erosion that is
13 around it.

14 What's interesting is that in these
15 photographs if you remember the photograph of the
16 PillCam that we showed at the beginning to be the lens
17 of the PillCam is a dome. As the camera is traveling
18 through the bowel the bowel mucosa is pressed up
19 against the lens. That's one type of photograph that
20 the camera can take. So you have the mucosa of the
21 bowel pressed up against the lens and you're
22 photographing it.

23 Another way that the camera could photograph
24 the mucosa is if the camera is sitting within an open
25 lumen, so it's photographing like taking a picture of

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1 a hallway. We'll show some photos of what Michelle's

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1 bowel is like over there. These particular photos,
2 what we're looking at, is the bowel mucosa is pressed
3 up against the lens.

4 The way we know that is because this area,
5 the central area of the photograph, is a bit lighter
6 color than the surrounding area and that's because
7 it's pressed up against it, and it's pushing out the
8 blood. It has this circular appearance of this mucosa
9 here is clearly different, it's pinker, it's lighter,
10 than the area around it.

11 I mention this because when you have an
12 erosion when you have an erosion, you -- and it's
13 small, it's one millimeter, when you have the mucosa
14 pressed up against the lens of the capsule you would
15 expect that erosion area would not be pressed up
16 against it as well because it's a bit off the lens.
17 That's appreciated in these photos, and that's why
18 you're able to see it. So even though the mucosa is
19 up against the lens there's still a depression with
20 the sharply demarcated border.

21 This gives you again a sequence of four
22 photos that shows the appearance of that particular
23 lesion as the camera is moving slowly by it.

24 SPECIAL MASTER HASTINGS: All right. Just
25 for the record that was page 13 of the sequence of Dr.

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1 Krigsman's slides.

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1 Go ahead, Ms. Chin-Caplan.

2 BY MS. CHIN-CAPLAN:

3 Q Dr. Krigsmann, what does the next slide show?

4 A This is, again, a very similar type picture.

5 You have the mucosa pressed up against the lens of the

6 camera, and what you see here, this is demonstrated

7 even better than the previous photos, is you have one

8 nodule there, another one there, another one there.

9 So here we're beginning to see the pattern that we

10 referred to before in the definition of the earliest

11 lesions of Crohn's Disease.

12 We have this aphthous ulcer with surrounding

13 erythema, redness, the sharply demarcated border and

14 the presence of this lymphoid nodule within it, three

15 lymphoid nodules.

16 Q Doctor, the next slide, how does that differ

17 from the other ones that you showed us previously?

18 A This slide is different because this is a

19 photograph of that same lesion taken through air. So

20 here, although the periphery of the photograph shows

21 the mucosa pressed up against the lens of the PillCam,

22 the center of the PillCam is photographing the lumen

23 or taking a picture down the hallway. What you can

24 see very clearly here, and these are very impressive,

25 is this distinct nodule. This does not

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1 have the appearance of an ulcer at all.

2 This clearly is a protruding nodule. And
3 there's again the sharply demarcated area of erythema
4 around it. The same things are back over here in the
5 back of the photograph. These lesions are contained
6 linearly again along the fold of the small bowel.

7 Q Doctor, the next slide is a slide of what?

8 A Is again viewed through air, and it's just
9 the same as the previous slide, just another location
10 and again the sharply demarcated border.

11 Q Doctor, this slide shows that this is four
12 hours and 34 seconds after Michelle had swallowed the
13 PillCam?

14 A Well, she didn't swallow it. It was placed
15 endoscopically. It was done during the endoscopy. So
16 a device called a Roth net was attached to the
17 endoscope and the pill camera was deployed in the
18 proximal duodenum using the Roth net. But, yes, from
19 the time the capsule was activated this is four hours
20 later.

21 Q Okay. So you've shown us photos from
22 approximately on page 15, that first PillCam photos
23 indicate 20 minutes?

24 SPECIAL MASTER HASTINGS: Could you say that
25 again, Ms. Chin-Caplan?

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1 BY MS. CHIN-CAPLAN:

2 Q I was saying on page 15 that the time -- no.

3 A Yeah. This one is 20 minutes and 51
4 seconds.

5 Q So this is 20 minutes and 51 seconds after
6 the PillCam had been placed by Dr. Ursea?

7 A Correct.

8 Q And, doctor, the next photo was four hours
9 and 34 seconds after the placement of the PillCam?

10 A Four hours, 34 minutes and one second.

11 Q Okay. Is that an indication that in that
12 period of time this PillCam is taking photos of the
13 lymphoid nodular hyperplasia that you have described
14 throughout her colon?

15 A Well, not just the LNH, but also these
16 aphthous ulcerations. Right. And I should add that
17 these photos are by no means all of the lesions. The
18 bowel had dozens and dozens of these lesions.

19 Q Were there some additional photos that you
20 wanted to show this Court?

21 A Yes. This one also demonstrates again the
22 mucosa is pressed up against the lens of the capsule
23 and the lumen is actually down this way, but this area
24 clearly is unable to be pressed up against the lens of
25 the capsule because there contains a small erosion,

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1 central lymphoid nodule, surrounding erythema, sharp
2 demarkation of the border.

3 Throughout this whole area you can see a
4 whole bunch of those small nodules there with
5 surrounding erythema again lined up in folds along the
6 fold of the small bowel. You can even see it through
7 here as well.

8 SPECIAL MASTER HASTINGS: That was Slide 17.
9 Ms. Chin-Caplan, if you mention that you're going to
10 the next slide if you give the page number that will
11 make a little better record on this.

12 MS. CHIN-CAPLAN: Okay.

13 BY MS. CHIN-CAPLAN:

14 Q Dr. Krigsman, we're moving on to page 18
15 now.

16 A Okay. This slide on the left taken at 31
17 minutes and 54 seconds after activation of the capsule
18 shows again more of the same. It's the tissue of the
19 bowel mucosa pressed up against the lens of the
20 capsule, and you have a central nodule over there,
21 surrounding erythema, sharply demarcated border.

22 What's interesting about this photograph is
23 that as you recall, the third definition that we gave
24 of aphthous ulcer included the finding of this heaping
25 up at the rim of the ulcer as an indication of the

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1 aphthous ulcer entity, and that's the theory with the
2 attempt at healing, and that epithelial regeneration
3 and that you can see and appreciate the thickening
4 around the rim. You can see it over here also.

5 In my mind this is a more impressive
6 picture. Here you certainly see again this area where
7 the tissue is otherwise pressed up against the lens of
8 the capsule, this area is not, it's in central nodule,
9 surrounding erythema.

10 Q Doctor, on page 19 of this PillCam --

11 A Okay. This photograph, these two show more
12 of the same. Here again it's just these same central
13 nodules, surrounding erythema, heaped up rim and it's
14 pushed off the lens of the scope. The reason why I'm
15 repeating these photos, it may seem repetitive, but
16 the point I want to make is that these were present
17 throughout Michelle's bowel, not just in one or two
18 locations. I don't want to show all of them. That
19 will take all day.

20 Q And, Doctor, if we just briefly run through
21 the next few PillCam slides?

22 A Skipping to the last slide or maybe it's the
23 next to last slide, and this is a very nice
24 demonstration of the linear aspect of these lesions.
25 You see here central nodule, erythema around it,

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1 sharply demarcated border and you see it again over
2 here as well, the nodule, erythema, nodule along the
3 fold of the small bowel, exactly as described to be
4 the earliest lesion of Crohn's Disease.

5 SPECIAL MASTER HASTINGS: So that was Slide
6 20. Go ahead.

7 BY MS. CHIN-CAPLAN:

8 Q I'm sorry. Twenty-one, doctor?

9 A This is the last I believe of Michelle's
10 PillCam photos which shows more of the same taken at
11 44 minutes, 29 seconds, and it shows where the three
12 black arrows are three distinct lymphoid nodules,
13 surrounding erythema and mucosa ulceration within the
14 fold of the small bowel, exactly as described.

15 Q The photos that you took on pages 22 through
16 24, can you describe for the Court what the
17 significance of these photos are?

18 A Yes. This photo I had forgotten about. I
19 included this to demonstrate --

20 SPECIAL MASTER HASTINGS: Which one are you
21 talking about?

22 THE WITNESS: This is the photograph taken
23 after one hour, 42 minutes and 32 seconds --

24 SPECIAL MASTER HASTINGS: Okay. Page 22.
25 Go ahead.

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1 THE WITNESS: And what the black arrows are
2 again pointing to the rim of this ulcer, the small
3 mucosal ulceration. If you look of course you see the
4 central nodule that is evident over here, but the area
5 around it is not homogeneous, it's actually
6 heterogeneous. This area is darker than the
7 surrounding area even though they're all within the
8 rim of the ulcer. What this suggests is that the
9 ulcer is varying depths.

10 I thought that was just something that
11 illustrated, and I wanted to include that.

12 BY MS. CHIN-CAPLAN:

13 Q And what is present on page 23?

14 A This is a demonstration of an ulcer without
15 erythema which I found very interesting. These
16 photographs show again the same pattern of mucosa
17 standing away from the lens of the capsule despite
18 everything else being pushed up against it around it.

19 Within that area that's off of the lens you
20 have those lymphoid nodules that are there and you see
21 a very sharply demarcated border, but you don't really
22 appreciate the presence of redness or inflammation,
23 and I wanted to include that as something that I
24 thought was interesting as well. This is more of the
25 same. We're taking a look at slides now taken at 31

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1 minutes and 46 seconds.

2 These are two sequential photos. Again,
3 central lymphoid nodules, surrounding erosion with
4 minimal erythema or inflammation.

5 Q Doctor, what is page 25 a picture of?

6 A Page 25 for those of you who don't know what
7 this is is a photograph of Michelle's diaper and her
8 diarrhea. I included this slide -- This is as recent
9 as July of 2006. I included this slide because I
10 thought that it was important for the Court to see
11 firsthand what the diarrhea was. We're talking about
12 liquidy stool.

13 If there's any question in anyone's mind
14 whether this diarrhea was real, or not real, or
15 semisoft, or otherwise, other various degrees of being
16 formed, this is Michelle's typical stool. To be any
17 more formed than this is unusual for her and is almost
18 always a result of being on either Prednisone, or 6-
19 MP, or Remicade, or Humira.

20 Q You indicated that Michelle had also had
21 arthritis. Is this a picture of what you saw when you
22 first saw Michelle? This is page 26.

23 A I don't recall when this was taken, but at
24 some point clearly. This is Michelle taken by Theresa
25 sent to me by mail, and it shows actually, both ankles

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1 are swollen but there's clear asymmetry between

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1 the left leg and the right leg. Theresa had mentioned
2 earlier in her testimony that the swelling had gone
3 all the way up to the knee.

4 This is a photo demonstration of exactly
5 that. The ankle is deformed, it's swollen, the foot
6 is turned out and the swelling does indeed extend up
7 to the knee.

8 Q Doctor, on page 27 what was the reason for
9 including this photo?

10 A I included this photo to show you what
11 Michelle looked like right before I saw her. This is
12 at around the time she was hospitalized, in July-
13 August of '03, and one of the things that resulted in
14 that hospitalization from the investigations was the
15 diagnosis of a Vitamin K deficiency. Vitamin K is
16 needed for clotting.

17 When Theresa had called me, before the
18 hospitalization, saying that Michelle, who is self-
19 abusive when she is in pain, which always improves
20 when the diarrhea and arthritis improves, during this
21 period when things were really bad, she was self-
22 abusive, but she was causing severe black and blue
23 marks, or ecchymoses.

24 This is a photograph of that, and the reason
25 why they were more severe than usual was (a) her pain

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1 was worse, so she probably was hitting herself harder,
2 but, more importantly, she had a clotting disorder
3 that was diagnosed in the hospital from Vitamin K
4 deficiency, which is a result of malnutrition.
5 Because of her severe anorexia and inability to
6 tolerate anything by mouth, she became deficient in
7 Vitamin K. When she was banging, it tended to bruise
8 more than it normally would have.

9 Q Doctor, with the history that you took, the
10 physical exam that you conducted, the information that
11 you obtained from Mrs. Cedillo about Michelle's early
12 years, the laboratory findings, and the endoscopic
13 procedure that you performed, did you come to a
14 conclusion about whether or not Michelle Cedillo
15 suffered from an enterocolitis?

16 A No. In my mind, there was no doubt, even
17 going back to 2003, that she had an enterocolitis of
18 some sort. In my mind, I was calling it
19 indeterminate colitis at that point.

20 After looking at the PillCam study of 2006,
21 I have no hesitation in labeling this as Crohn's
22 disease, based upon the characteristic features of
23 those aphthous lesions within the small bowel, as just
24 described in the series of slides that we saw, but
25 it's not just the presence of those lesions. The

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1 aphthous lesions of the bowel, in isolation, even if
2 they have the characteristic features described as
3 early Crohn's disease, if that was the only finding, I
4 would be hesitant to label it as Crohn's disease.

5 But when you have those dramatic photos and
6 the presence of a history of diarrhea and abdominal
7 pain, in the presence of a physical exam that shows
8 extra intestinal manifestations of arthritis, uveitis,
9 and iritis, with marked irritability and self-abusive
10 behaviors, when you have growth data when she was at
11 her worst, when she had the worst flare of her bowel
12 issues and her arthritis that coincided with the 20-
13 pound weight loss over six months, coinciding with
14 laboratory findings of thrombocytosis, an elevated
15 OmpC, which is, as you recall, highly specific, up to
16 95 percent specificity, for Crohn's disease.

17 An elevated ESR, and elevated C active
18 protein, in the presence of two colonoscopies done
19 three years apart or two years apart by two different
20 endoscopists showing aphthous ulcerations of the colon
21 in different areas of the colon, in the presence of a
22 PillCam study showing widespread aphthous ulcerations
23 in the characteristic pattern that you would expect,
24 based upon all previous descriptions of Crohn's
25 disease, and in the presence of aphthous ulcerations,

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1 which all agree are the earliest sign of Crohn's
2 disease, meaning, whether every aphthous ulceration is
3 Crohn's disease, the answer is no. Every aphthous
4 ulcer is not Crohn's disease, but all bowel lesions of
5 Crohn's disease do begin as aphthous lesions.

6 So when you have all of this taken together,
7 and, in addition to that, what is not on the slide is
8 her clinical response to anti-inflammatories and
9 immunosuppressants, the predicted response of
10 improvement in all of her organs that are inflamed, to
11 anti-inflammatories, to prednisone, to sulfasalazine,
12 to 6 MP, to remicade, and now to Humira. All of those
13 together form an undeniable diagnosis of Crohn's
14 disease.

15 Q Doctor, at some point in time, did you
16 become aware that Michelle had had a bowel biopsy done
17 earlier by Dr. Montes?

18 A Yes.

19 Q Did you, at some time, become aware that
20 that gut biopsy result returned with measles RNA in
21 the biopsy sample?

22 A Yes.

23 Q Do you know approximately when you learned
24 that information?

25 A I don't remember when Theresa mentioned it

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1 to me.

2 Q And, at some point in time, did you come to
3 a conclusion that there was a relationship between the
4 presence of the measles virus, the measles RNA that
5 was found in the gut biopsy done in 2002 and the
6 enterocolitis that Michelle suffered?

7 A I was very interested in that because once I
8 realized that these children do, in fact, have bowel
9 disease and that this is going on in so many of the
10 kids with autism and GI symptoms, because of their
11 reports, because of their reports or clinical
12 association or observed association, I should say, by
13 so many parents, that the onset of their bowel disease
14 and their autism occurred shortly after MMR, it's a
15 reasonable question to say, is there, in fact, an
16 association?

17 So that question did interest me, and, in
18 fact, we have an IRB-approved study to look exactly at
19 that, among other issues of bowel disease, but one of
20 the features of the bowels that we're looking at is
21 that, to see whether we can find any evidence of
22 measles RNA.

23 Personally, I didn't want to believe it
24 until the specimens that I took and I processed and I
25 preserved and I sent, done by lab personnel that I'm

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1 familiar with, if we could find that, then I would be

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1 very much convinced of that.

2 So we embarked on this project in 2003, at
3 the end of 2003, and we presented our preliminary
4 findings at the IMFAR conference -- IMFAR is the
5 acronym for International Meeting for Autism
6 Research -- in June 2006, exactly a year ago, and it
7 was held in Montreal.

8 We had a poster at that meeting, "we"
9 meaning myself and Steve Walker from Wake Forest
10 University and Karen Hepner and Jeff Segal, and on
11 that poster we demonstrated we displayed, I should say
12 our preliminary findings of measles virus in the
13 biopsies that I had obtained from the terminal ileum
14 of a number of our patients with autism and bowel
15 disease.

16 Q You indicated that you presented this
17 information at IMFAR.

18 A That's correct.

19 Q What is "IMFAR"?

20 A IMFAR is the International Meeting for
21 Autism Research. It's a very prestigious annual
22 meeting where researchers from all around the world
23 gather to present the abstracts, and sometimes even
24 longer, speaking presentations of their findings. It
25 incorporates medical issues of autism, behavioral

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1 issues of autism, diagnostic issues, psychiatric

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1 issues. It's just a very comprehensive meeting.

2 Q Doctor, you indicated that you presented
3 this information on a poster.

4 A That's correct.

5 Q Is it literally a poster on an easel?

6 A It was exactly what you imagine. It's a big
7 poster on an easel, yeah.

8 MS. CHIN-CAPLAN: Special Master, could I
9 just refresh the witness about that?

10 (Pause.)

11 MS. CHIN-CAPLAN: Special Master, we're
12 going to be passing around a document which is the
13 poster that was presented at this meeting.

14 SPECIAL MASTER HASTINGS: I take it, this is
15 not something that's already in the record.

16 MS. CHIN-CAPLAN: No, Special Master.

17 (Pause.)

18 SPECIAL MASTER HASTINGS: And why wasn't
19 this particular document already in the record?

20 MS. CHIN-CAPLAN: The abstract is in the
21 record. This is what was posted, I guess, outside the
22 door.

23 SPECIAL MASTER HASTINGS: The abstract is in
24 the record where?

25 MS. CHIN-CAPLAN: The abstract is contained

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1 in Dr. Krigsman Exhibit Number -- if you give me a
2 moment, I'll tell you exactly where.

3 SPECIAL MASTER HASTINGS: Okay.

4 MS. CHIN-CAPLAN: Tab K, I was told.

5 SPECIAL MASTER HASTINGS: I'm sorry?

6 MS. CHIN-CAPLAN: Tab K.

7 SPECIAL MASTER HASTINGS: Tab K. All right.

8 (Pause.)

9 MS. CHIN-CAPLAN: Special Master, would this
10 perhaps be a good time to just break for the afternoon
11 so I can locate my own file?

12 SPECIAL MASTER HASTINGS: All right. Let's
13 take our 15-minute break for the afternoon right now.

14 (Whereupon, a short recess was taken.)

15 MR. MATANOSKI: We were planning to take a
16 brief break between Dr. Krigsman's testimony and the
17 beginning of cross, particularly in light of the fact
18 that we were just handed this document that he is
19 apparently going to be testifying to now.

20 SPECIAL MASTER HASTINGS: Okay. If you need
21 another break. Where do you stand right here? Why do
22 we need a break right now?

23 MS. CHIN-CAPLAN: Just to locate the
24 abstracts. I could tell the Court where it is.

25 SPECIAL MASTER HASTINGS: I've got it.

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1 MS. CHIN-CAPLAN: Oh.

2 SPECIAL MASTER HASTINGS: I've got in front
3 of me.

4 MS. CHIN-CAPLAN: Okay.

5 SPECIAL MASTER HASTINGS: You said Tab K.

6 MS. CHIN-CAPLAN: We can continue.

7 SPECIAL MASTER HASTINGS: For the record,
8 this is Tab K, I think, to Dr. Krigsman's, which is at
9 Exhibit 59.

10 (Pause.)

11 SPECIAL MASTER HASTINGS: Ms. Chin-Caplan,
12 to get a handle on the stuff that's being produced at
13 trial here, let's try to do that right now. You filed
14 a group of exhibits that were the copies of Dr.
15 Aposhian's slides yesterday. You didn't file it, but
16 you gave us copies, and I want you to file that.
17 Let's call that Petitioner's Trial Exhibit 1.

18 MS. CHIN-CAPLAN: Dr. Aposhian?

19 SPECIAL MASTER HASTINGS: Dr. Aposhian. And
20 then the one that we just went through of Dr.
21 Krigsman, let's call that Petitioner's Trial Exhibit

22 2. And then the document you just gave us now --

23 MS. CHIN-CAPLAN: We can call that "2A"?

24 SPECIAL MASTER HASTINGS: Well, let's go to
25 No. 3. Let's just go to No. 3.

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1 because no one can know one can know everything about
2 everything.

3 So they tend to be lined up, and the people
4 that attend the conference walk around from poster to
5 poster, and they read the data. It's in abstract
6 form, meaning that you don't have lengthy descriptions
7 of methodology or of technique. It's preliminary, and
8 it's understood to be preliminary. This is not a
9 peer-review presentation, by any means.

10 It has to be accepted by the organizers of
11 the conference, so it does pass some sort of
12 elementary screening test, but certainly it's not
13 considered peer reviewed. Typically, there are
14 specific galleries where one or more of the
15 researchers are physically present at their poster to
16 answer questions that people passing by may have when
17 they read it.

18 Q So would it be fair to call it a "snapshot"
19 of your presentation?

20 A I would say it's snapshots of preliminary
21 data.

22 Q Fair enough. Doctor, this handout, which
23 has been labeled as Krigsmann Trial Exhibit 3; do you
24 have a copy?

25 A No, I don't have a copy.

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1 (Pause.)

2 BY MS. CHIN-CAPLAN:

3 Q So, Doctor, I'm just going to ask you to run
4 very briefly through this poster presentation. This
5 is Krigsman Trial Exhibit No. 3. In the introduction,
6 what information were you relating to the participant?

7 A Just as a bit of background, autism is very
8 common. The frequency has been increasing over the
9 years. There is a gastrointestinal involvement that
10 has been published and documented, and there is a
11 previous publication that found the presence of
12 measles virus RNA within the inflamed intestinal
13 tissue, and we made the point that that's only one
14 publication. No one, to date, has ever tried to
15 replicate that information from that particular
16 source, specimen source. We attempted to do so.
17 That's the first page.

18 Q And, Doctor, what does the second page
19 represent?

20 A The second page are a variety of
21 photographs. Photograph A is a child leaning against
22 a table, which we have come to learn, in our
23 experience, these children with autism and bowel
24 symptom, meaning diarrhea, when having abdominal pain,
25 what they tend to do, in an effort to make their

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1 bellies feel better, is to apply pressure on the lower
2 abdomen, sometimes upper but usually lower abdomen,
3 and they assume all sorts of interesting positions and
4 spend a good deal of their time doing that, and
5 Photograph A is an example of that. Photograph B is a
6 little girl laying on a floor, pressing her hands onto
7 her lower abdomen.

8 This is Figure 1. Figure 1 has four
9 photographs, labeled A through D. We just reviewed A
10 and B.

11 Photograph C of Figure 1 is a photograph of
12 this marked abdominal distention that so many of the
13 children with autism and bowel symptoms have as an
14 accompanying finding to their diarrhea and their pain.

15 And Photograph D in Figure 1 is another
16 example of the abdominal distention, and the child
17 clearly is very thin, very thin.

18 In Figure 2, Photograph A is a photograph of
19 an endoscopy that I have done with a patient with
20 typical lymphonodular hypoplasia, demonstrating the
21 excessive nature of the lymphoid nodularity and the
22 magnitude of it.

23 Photograph B -- in black and white, you
24 really can't appreciate it -- Photograph B is a
25 photograph of numerous aphthous ulcerations of the

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1 colon, very similar to the aphthous lesions that
2 you've seen just a moment ago on the PillCam study.

3 Photograph C of Figure 2 demonstrates a
4 typical biopsy, a microscopic appearance of the colon
5 that's inflamed with colitis, and it shows a
6 lymphocytic infiltration of the mucosa and submucosa
7 with something called "crypt branching." At the very
8 center of Photograph C, you'll see a crypt that
9 branches off and forks into two. Crypt branching is
10 an undisputed histologic or histopathologic hallmark
11 of chronic and ongoing inflammation. This biopsy is
12 typical of biopsies that we see in this group of
13 children.

14 Photograph D of Figure 2 are the PillCam
15 photos or similar photos that you've just seen. These
16 photos were the two photographs taken at PillCam, and
17 Photograph D of Figure 2 were taken by Dr. Frederico
18 Balzola in Turin, Italy, on his patients, and he has
19 described PillCam findings also showing aphthous
20 ulcerations of the small bowel and presented it. I
21 believe it's in a letter that has been published in
22 one of the gastroenterology journals in letter form.
23 That's Photograph D.

24 Q And, Doctor, on page 3?

25 A Three, I'll just read it. This is a section

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1 labeled "Objectives of the Poster." "The primary
2 objective of the study was to determine whether
3 measles virus RNA could be identified in total RNA
4 extracted from ileal tissue of children with chronic
5 GI symptoms, autistic enterocolitis, and regressive
6 autism and to compare this to neurotypical controls.
7 An additional objective was to determine whether the
8 measles virus sequence generated from RT-PCR products
9 corresponded to the wild-type form or a vaccine-
10 strain-specific form of the virus."

11 Q And on page 4, what is that?

12 A Page 4 is a brief description of the
13 materials and methods. Would you like for me to read
14 it?

15 Q Certainly.

16 A "Materials and Methods. Patients who had a
17 diagnosis of ASD and who were referred to a pediatric
18 gastroenterologist, myself, for evaluation of chronic
19 gastrointestinal symptoms were eligible to participate
20 in this IRB-approved study. For each patient, medical
21 histories, vaccination records, histopathology
22 reports, and ileocolonoscopy biopsy tissue were
23 available for evaluation. Gastrointestinal symptoms
24 consisted of abdominal pain, diarrhea, constipation,
25 abdominal distension, and growth failure.

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1 Representative endoscopic, gross pathologic findings
2 included marked lymphonodular hyperplasia and aphthous
3 ulcerations. Representative histopathology is shown
4 above and consisted of a mild, patchy, nonspecific,
5 inflammatory, infiltrative mucosal layer. The
6 findings at wireless capsule endoscopy of the small
7 bowel revealed similar aphthoid lesions. Biopsies of
8 the lymphonodular tissue were tested for the presence
9 of measles virus by RT and PCR."

10 Q Doctor, to the right of this page, Exhibit
11 3; what is that?

12 A Figure 3 was just a little schematic
13 showing, in schematic form, what we did. First of
14 all, the graph shows a cartoon of the intestine with
15 an arrow pointing downwards towards the photograph of
16 two small vials, indicating that the biopsy was taken
17 from the terminal ilium and placed in those small
18 vials of RNAlater, which is an RNA preservative, and
19 then there is another arrow pointing down to RNA
20 extraction. So the RNA was extracted from the
21 specimens contained in those vials.

22 RT-PCR was done on the specimens after the
23 RNA extraction, and then another arrow going down to
24 sequencing, indicating that, on a number of specimens,
25 we performed sequencing.

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1 I should mention also, since I'm mentioning
2 sequencing, is that, at the time of presentation of
3 this abstract, we had not yet performed all the assays
4 on all of the specimens or attempted to sequence them.
5 So we reported the findings that we have, which is
6 part of why this is preliminary.

7 So whatever findings we have from what we'll
8 be discussing in a moment don't reflect the fact that
9 we tested all of the specimens using a number of
10 different primers and came up with those results.
11 That's not what it indicates.

12 Q So this was a partial report of --

13 A It's partial. It's quite preliminary.

14 Q Doctor, what is page 5?

15 A Page 5 are two photographs of panels of gel,
16 and the PCR technology, which Dr. Hepner and Dr.
17 Kennedy will speak about in greater detail tomorrow.
18 These are photographs of the PCR products.

19 Q And, Doctor, page 6; what is page 6?

20 A This is a detailed base pair sequences of
21 the Edmonston vaccine virus, and, again, Dr. Hepner
22 and Dr. Kennedy would be able to elucidate more on the
23 details of Figure 5.

24 Q And, Doctor, what is page 7?

25 A A description of the primers that we used,

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1 and, again, I would defer the description of this to
2 Dr. Hepner and Dr. Kennedy.

3 Q And on page 8, Doctor?

4 A Page 8 is a summary of the results showing
5 the results of initial PCR, PCR runs using five
6 different primer strategies and whether they were
7 positive or negative and what percentage were positive
8 and how many, both numerators and denominators of
9 specimens that were tested using particular primer
10 strategies, and how many of those tested using that
11 particular primer strategy were a positive or negative
12 for either PCR, measles virus sequencing, meaning
13 sequencing of measles virus that would not be specific
14 for a vaccine strain, but it could be either vaccine
15 or wild-type measles.

16 Then, lastly, there I designed a primer that
17 would look specifically for the base pair sequence of
18 the vaccine strain measles virus, and that last row,
19 lightly shaded, shows how many of the specimens were
20 positive as of the date of this poster presentation
21 for a vaccine-strain-specific measles virus.

22 Q These were your preliminary findings.

23 A Correct.

24 Q This was on a poster for anybody to see as
25 they walked into the meeting.

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1 A Correct.

2 Q Doctor, you indicate that you were the
3 endoscopist doing this work.

4 A Right. My role in this was, as the
5 gastroenterologist, was to identify the patients who
6 met the clinical criteria for an indication for a
7 diagnostic colonoscopy in whom there was a strong
8 suspicion, based upon their presenting symptoms their
9 GI symptoms of diarrhea and pain, that an inflammatory
10 lesion is present. Those were the patients who were
11 colonoscoped, biopsied, and entered into the data
12 shown on this poster.

13 Q Doctor, your preliminary findings revealed
14 what?

15 A The preliminary findings, as far as the
16 presence of measles virus, and, again, I'm not going
17 to give a percentage because that would suggest that
18 we tested all of them, and X percent were positive or
19 negative. All we could say at the time of this poster
20 is that, as far as vaccine-strain-specific sequencing
21 positivity, a total of six specimens that were
22 positive for vaccine-strain-specific RNA, the RNA
23 gene.

24 So genetic material that was specific for
25 vaccine-strain measles virus was positive in six. I

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1 can't give you a denominator out of how many that was
2 because, again, some were tested just using one
3 strategy, some were tested using multiple strategies,
4 and, again, Dr. Kennedy and Dr. Hepner actually would
5 be able to shed more light on that.

6 We also found that if you, putting aside the
7 issue of vaccine-strain specificity, if you just
8 looked at how many were positive on base-pair
9 sequencing for measles virus, that could either be
10 vaccine or wild type. There was a total of 35.
11 Thirty-five specimens were positive, for sequencing of
12 the base pairs, for measles virus.

13 Q Doctor, based on your education, training,
14 and experience, your treatment of Michelle Cedillo,
15 her history, the findings that you saw on her
16 diagnostic procedures, the laboratory findings that
17 you obtained in your care and treatment of her, the
18 treatment regimen that you ordered for her, as well as
19 her response to that treatment regimen, in your
20 conversations with her subsequent treating doctors, do
21 you have an opinion, more probably than not, whether
22 Michelle's enterolitis was caused by measles virus?

23 A In my opinion, in all likelihood, the
24 measles virus genome that we're finding in the ileo
25 specimens of these patients is the cause of the bowel

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1 inflammation that they have, and, in all likelihood,
2 in Michelle's case, as well, the finding of measles
3 virus in the inflamed, abnormal, enterocolitic bowel
4 that we know she has, in all likelihood, that
5 inflammation is the result, in my opinion, of the
6 presence of the measles virus genome.

7 Q Could you tell the Court the basis for that
8 opinion, the facts that you relied upon when you
9 formulated that opinion?

10 A Basically, it's spelled out in my report,
11 and it's that, based upon the previous publication by
12 the group in Dublin, Ireland, of the presence of
13 measles virus genome in the inflamed guts of autistic
14 children who had bowel symptoms identical to the
15 population that we're looking at here in this poster
16 presentation, that's based upon that combination of
17 factors, the same patients, the same presentations,
18 the same bowel findings, and the same findings of
19 measles virus genome, and, again, the likelihood that
20 this genome is causing what appears to be what's
21 consistent with viral inflammation.

22 The pattern of inflammation that we're
23 seeing in these children that's been published and
24 that we've seen in our large series of children is
25 consistent with the viral infection. So the pattern

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1 of nonspecific, patchy, mild, chronic active
2 inflammation with lymphoid hyperplasia is something
3 that you would expect to see with a viral infection.

4 So all of these factors, taken together,
5 make me think that, in all likelihood, the
6 inflammation that we're seeing in the bowel and the
7 enterocolitis is a result of the presence of the virus
8 in the bowel.

9 MS. CHIN-CAPLAN: Thank you, Doctor.

10 SPECIAL MASTER HASTINGS: All right. Let's
11 take a 15-minute break at this point. Mr. Matanoski,
12 is that good? Did you have a point?

13 MR. MATANOSKI: That would be fine, sir.

14 SPECIAL MASTER HASTINGS: Okay. All right.
15 To the folks at home, I apologize. We did not take
16 our break earlier. We are taking a 15-minute break
17 now at 3:12. We'll be starting again at about 3:27.

18 (Whereupon, a short recess was taken.)

19 SPECIAL MASTER HASTINGS: All right. We're
20 ready to go back onto the record here.

21 First, I want to note for counsel that I
22 just passed on an item of information. This applies
23 to today only, but, today, we are definitely going to
24 need to end at 6 p.m. because the power in the
25 building is going off at that time.

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1 So, on other days, that will not be the
2 case. Today, we need to get done by six, so plan
3 accordingly. We can go from now until then.

4 For the Respondent, do you have any cross-
5 examination for this witness?

6 MS. RICCIARDELLA: Yes, I do.

7 SPECIAL MASTER HASTINGS: Ms. Ricciardella,
8 please go ahead.

9 CROSS-EXAMINATION

10 BY MS. RICCIARDELLA:

11 Q Dr. Krigsman, you're a partner with Andrew
12 Wakefield at Thoughtful House Center for Children in
13 Austin, Texas. Is that correct?

14 A I'm not a partner there, no.

15 Q What do you do there?

16 A I'm the director of gastroenterology
17 services at Thoughtful House.

18 Q So you're Dr. Wakefield's employee.

19 A No. He is not an employer.

20 Q Is that a partnership?

21 A No.

22 Q What is it?

23 A It's a working association. I don't own any
24 share of Thoughtful House, nor am I employed by them.

25 Q Would you consider yourself a colleague of

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1 Dr. Wakefield at Thoughtful House?

2 A Yes.

3 Q And you're the director of gastroenterology
4 services at Thoughtful House. Is that correct?

5 A That's correct.

6 Q Now, Doctor, Thoughtful House posts on its
7 Web site a page entitled "Treatment at Thoughtful
8 House." Are you familiar with that page? We'll put
9 it on the screen.

10 A I'm sorry. I didn't hear the question.

11 Q Thoughtful House posts on its Web site a
12 page called "Treatment at Thoughtful House."

13 A Okay.

14 Q Are you familiar with this page of
15 Thoughtful House's Web site?

16 A Not offhand, but I would be happy to look at
17 it.

18 Q Do you know who wrote this page?

19 A I would not know who authored it, no.

20 Q You did not?

21 MR. HOMER: Excuse me, Your Honor.

22 SPECIAL MASTER HASTINGS: Yes.

23 MR. HOMER: Is this filed in evidence?

24 MS. RICCIARDELLA: No, it's not.

25 MR. HOMER: Could we have a copy of it,

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1 please?

2 MS. RICCIARDELLA: Sure.

3 (Pause.)

4 BY MS. RICCIARDELLA:

5 Q Doctor, if you look on the screen, there is
6 a section entitled "Medical Treatment." Do you see
7 that section? We'll blow it up for you.

8 A Okay. Thank you.

9 Q The first sentence begins with the sentence:
10 "Children with childhood developmental disorders have
11 disregulated immune systems." Do you, in your
12 opinion, believe that all children with developmental
13 disorders have disregulated immune systems?

14 A All children? It's unlikely that every
15 single child with autism would have that.

16 Q I didn't hear the first part.

17 A It's unlikely that every child with autism
18 would have a disregulated immune system, that that's
19 the case in all of them.

20 Q Do you think that the majority of children
21 with developmental disorders have disregulated immune
22 systems?

23 A It's my understanding that a number of
24 studies have demonstrated immune disregulation in
25 children with autism that differs statistically from

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1 those without autism.

2 Q And what studies are those?

3 A I can't cite them, but there is a good
4 review on this by Dr. Paul Ashwood that might be cited
5 in my report. He has a very excellent review article,
6 in the last two years, of the immunologic
7 disregulations of autism, a review of all previous
8 publications.

9 Q And what about childhood developmental
10 disorders other than autism? Do you believe that the
11 majority of those are caused by disregulated immune
12 systems?

13 A I'm sorry. I didn't hear the question.

14 Q Childhood developmental disorders other than
15 autism; do you believe that those, too, are caused by
16 disregulated immune systems?

17 A I have no knowledge of that.

18 Q Doctor, there is another phrase, under the
19 section, "Medical Treatment," that states: "Treatment
20 directed at correcting immune system abnormalities is
21 imperative." In your opinion, should all children
22 with developmental disorders, or, particularly,
23 autism, receive treatment directed at their immune
24 system?

25 A I think that it's appropriate to focus on

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1 the immune system of these children. My direct
2 knowledge of that comes from my own experience. The
3 bowel disease that I described this afternoon is an
4 example of a disregulated immune system.

5 So, certainly, to have a theory that you
6 want a direct treatment at immune disregulation is not
7 something that is without foundation or support.

8 Q But do you believe that the majority of
9 children with autism should receive treatments for a
10 disregulated immune system?

11 A I think that a workup needs to be done to
12 determine if there is an immune disregulation, or if a
13 clinical observation warrants it, that's where I would
14 have to start.

15 Q And, Doctor, when you say "workup needs to
16 be done to determine if there is an immune
17 disregulation," how would a workup determine an immune
18 disregulation? What do you mean?

19 A Those questions are best referred to
20 immunologists to determine the specific immunologic
21 aberrations that one might want to look for, but,
22 again, there are a number of studies that have
23 demonstrated that this exists in these children.

24 Q Now, Doctor, on this same page there is a
25 section entitled "Gastrointestinal Diagnosis and

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1 Treatment." Do you see that, what we've just blown
2 up?

3 A Yes.

4 Q Did you write this section?

5 A I either wrote it or was consulted on it.

6 Q As director of gastrointestinal services
7 there, you endorse this section of the Web site.

8 A I would. This particular part that you're
9 blowing up now, I endorse.

10 Q Okay. Now, Doctor, there is a sentence in
11 this section that says: "Many children with CDDs have
12 GI symptoms that precede, coincide with, or appear
13 after the onset of neurological symptoms or
14 regression. A child should produce one formed stool
15 per day. Anything else merits attention."

16 Doctor, in your opinion, is failure to form
17 one stool a day a significant GI symptom in an
18 autistic child?

19 A No. What this paragraph says is that it
20 merits attention. What that means is that when you
21 have, being that we know that these children so
22 frequently have GI symptoms that are intense, and they
23 have findings, both laboratory findings and on biopsy,
24 when you have something that might deviate from a
25 simple, one stool per day, you need to direct

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1 attention to that and get a more thorough history.

2 This paragraph does not suggest that if you
3 don't have one bowel movement a day, there is
4 something pathologically wrong with your bowel.
5 That's a misreading of this paragraph.

6 Q And, Doctor, this section ends with the
7 sentence: "There is also a subgroup of autistic
8 children that appear to lack GI symptoms, but without
9 endoscopy evaluation, the question of an occult or
10 hidden GI inflammation remains unanswered."

11 A That's correct.

12 Q Now, does that mean that for proper
13 diagnosis and treatment of this subgroup of autistic
14 children who do not have GI symptoms, that they should
15 undergo endoscopy evaluation to evaluate --

16 A No. It does not mean that.

17 Q What does it mean?

18 A It means that it is our suspicion that there
19 is a bowel disease that is occult, meaning that it may
20 not produce overt symptoms, particularly in this group
21 of children who can't manifest or demonstrate pain.

22 For example, the presentation of the bowel
23 inflammation that I spoke about earlier could be just
24 abdominal pain. In Crohn's disease, the most frequent
25 presenting symptom is abdominal pain. Even in the

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1 absence of any other symptom, abdominal pain is known
2 to be a presenting symptom by itself, in isolation of
3 Crohn's disease.

4 This particular group of patients represents
5 a very unique problem in interpreting conventional
6 symptoms because, whereas, as pediatricians, we are
7 trained to observe certain behavior patterns or
8 relying on what a child says, in these children, we
9 haven't got the ability to do that because they don't
10 manifest pain. They don't say it, they often don't
11 talk, and when they do have pain, they often manifest
12 it in strange ways like putting pressure on their
13 belly instead of just putting their hand on it. For
14 some reason, this is a behavior that some of them do.
15 They lean over tables. Why would they do that? I
16 don't know.

17 Q So, Doctor, you're saying, in this phrase,
18 that children who do not manifest, autistic children
19 who do not have GI symptoms may nevertheless have
20 inflammation, but there is no way to know that unless
21 the inflammation is confirmed by endoscopy.

22 A Right, but that does not suggest that they,
23 therefore, should undergo -- what the sentence that
24 you're highlighting is saying is that there are a
25 subgroup of patients who would not manifest overt

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1 symptoms, but overt symptoms are obvious, for example,
2 of abdominal pain, like I just said, and the only way
3 to do that is to have a high index of suspicion so
4 that if you would see a child who is excessively
5 irritable, for example, and that's the only symptom
6 that you can tell that's relatable to the GI tract,
7 even though he may be irritable for a whole variety of
8 reasons, one must take that seriously because that may
9 be the only indication of an underlying bowel
10 pathology.

11 Q Now, Doctor, you were an attending physician
12 at Lenox Hill Hospital from September 2000 through
13 December 2004. Correct?

14 A That's correct.

15 Q And is it true that before you resigned your
16 position, the hospital restricted your privileges to
17 conduct endoscopies?

18 A No that's not correct.

19 Q What's incorrect about that statement?

20 A I didn't resign my position, number one.

21 Q Why did you leave?

22 A I did not renew my application for
23 appointment there. Every two years, you need to renew
24 it, and I chose not to renew it at the end of 2004.

25 Q During your tenure at Lenox Hill, is it true

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1 that the hospital, at one point, did restrict your

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1 privileges to conduct endoscopies?

2 A That's not the hospital's position. The
3 hospital maintains that they did not, in any way,
4 curtail my privileges.

5 Q Well, you sued the hospital, didn't you?

6 A I did.

7 Q One of the reasons that you sued the
8 hospital was because you thought that they had
9 illegally restricted your privileges to conduct
10 endoscopies.

11 A Right. That's correct. My claim was that
12 they curtailed my privileges, and the hospital's
13 position was that they did not.

14 Q Regardless, they were concerned that you
15 were conducting endoscopies on children, particularly
16 autistic children, without medical necessity. Isn't
17 that correct?

18 A That is correct. They were concerned that
19 the colonoscopies that were being performed on these
20 children did not have proper indications of
21 colonoscopy.

22 Q And, Doctor, you are licensed to practice
23 medicine in Texas as well as New York and Florida.
24 Correct?

25 A That's correct.

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1 Q And in August 2005, is it true that you were
2 fined \$5,000 by the Texas State Board of Medical
3 Examiners for misconduct?

4 A That's not correct.

5 Q What's incorrect about that?

6 A There was no misconduct.

7 Q Did you pay a \$5,000 fine?

8 A We did.

9 Q What was it for?

10 A The fine was levied -- the reason for the
11 fine was because the Thoughtful House Web site, before
12 I was licensed, stated that Thoughtful House was open,
13 and patients can call. That's what the substance of
14 the Web site said. It gave no suggestion that I was
15 seeing patients because I wasn't. I wasn't licensed.
16 We didn't even know when the license would be coming
17 because it was a very long process to get licensed in
18 Texas.

19 But because Thoughtful House, on their Web
20 site, represented that they were open, the
21 understanding of the Texas Medical Board was that I
22 was Thoughtful House and that I was open, and that
23 indicated that I was available to see patients, and
24 that, they considered to be misrepresentation since I
25 was not yet licensed. So they levied a fine of

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1 \$5,000, which we chose to pay.

2 Q Doctor, was your fine in Texas also due to
3 the fact that you did not report the Lenox Hill
4 disciplinary action against you?

5 A That is not correct.

6 MS. RICCIARDELLA: Doctor, the minutes from
7 your August 25, 2005, application to obtain a license
8 in Texas are public, and we have a copy, which we will
9 put on the screen, and we'll hand to counsel.

10 (Pause.)

11 BY MS. RICCIARDELLA:

12 Q Now, what we've just put on the screen
13 reflects that a motion was made to allow your
14 licensure in Texas if you would pay a \$5,000 fine due
15 to disciplinary action by Lenox Hill Hospital:
16 "Falsification of Application Regarding
17 Nondisciplinary Citation by Florida and to
18 Misrepresentation Regarding Entitlement To Practice
19 Medicine." That was the motion that eventually passed
20 to allow to obtain your license to practice medicine
21 in Texas. Is that not correct?

22 A No. This did not pass, number one. Number
23 two: This was not the way it ended up. I did not
24 have to withdraw my application. The application was
25 never withdrawn. The initial one was submitted, and

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1 it went through.

2 The other thing you asked before that was
3 incorrect. The question you asked me was, isn't it
4 true that this Web site demonstrates that I did not
5 disclose the Lenox Hill dispute to Texas Medical
6 Board? That was the content of your question, and my
7 answer is that that is completely incorrect. I
8 disclosed that in its entirety on my application and
9 made no effort, in any way, to avoid dealing with this
10 issue in my application for Texas medical licensure.

11 Q Doctor, your C.V. states that you're a
12 clinical assistant professor at New York University.
13 Is that correct?

14 A Correct.

15 Q Are you currently on staff there?

16 A Correct.

17 Q When was the last time you taught a class at
18 NYU?

19 A I haven't taught there.

20 Q You've never taught a class at NYU.

21 A I'm on staff there.

22 Q Are you salaried?

23 A From NYU?

24 Q Yes.

25 A No.

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1 Q Have you ever been salaried at NYU?

2 A No.

3 Q Now, Doctor, on page 3 of your C.V., you
4 have an entry entitled "Publications," and you have
5 four listings, and, for the record, I'm referring to
6 Petitioners' Exhibit 60. Under the first listing is
7 entitled "Suction Rectal Biopsy in the Diagnosis of
8 Hirschsprung's disease and Comparison of Two Biopsy
9 Devices."

10 A Right.

11 Q And you state that you submitted this paper
12 to the American Board of Pediatrics on April 20, 1995,
13 about 12 years ago. Is that correct?

14 A That's correct.

15 Q What do you mean by you submitted the paper
16 to the American Board of Pediatrics?

17 A By "submitted," it means that, back in 1995,
18 the requirement for completion and certification of
19 pediatric gastroenterology training was that you had
20 to submit a research paper to the American Board of
21 Pediatrics. It actually is a misnomer to label it
22 under "Publications" since, in fact, it did not end up
23 being published. But what it was was a review and a
24 paper and a discussion describing exactly what the
25 title says that was submitted to them for their review

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1 to determine if this met the criteria to grant me
2 certification in pediatric gastroenterology.

3 Q You said it has not been published.

4 A No.

5 Q The second listing is a paper that you have
6 published, you co-authored, entitled "Laryngeal
7 Dysfunction: A Common Cause of Respiratory Distress
8 Often Misdiagnosed as Asthma and Responsive to Anti-
9 reflux Therapy." That has been published in 2002.
10 Correct?

11 A That is correct.

12 Q And the third listing, you term a "slide
13 presentation" that you presented at IMFAR, the
14 International Meeting for Autism Research, in 2004.
15 Now, Doctor, I note, though, that this slide
16 presentation you also have listed under "Speaking
17 Engagements" on page 4 of your C.V.

18 A That's correct.

19 Q Was this a speaking engagement or a
20 publication?

21 A A speaking engagement. This is not a
22 publication. You are correct.

23 Q And the fourth listing, you term a "poster
24 presentation at IMFAR in 2006," and I believe this is
25 what you were just testifying to during your direct

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1 examination. Is that correct?

2 A Correct.

3 Q And that's a poster that describes the
4 preliminary results of a study you're doing with Dr.
5 Stephen Walker and Dr. Karen Hepner.

6 A That's correct.

7 Q And this has not been published, has it,
8 Doctor?

9 A That's correct.

10 Q So, among your four listings under
11 "Publications," it's only the second listing that is a
12 true publication. Is that correct?

13 A That's correct.

14 Q Doctor, you served as an expert witness for
15 the claimants in the MMR litigation in the United
16 Kingdom. Is that correct?

17 A Yes.

18 Q And were you offered as an expert in that
19 litigation as someone who is able to confirm
20 intestinal inflammation in autistic children?

21 A Yes.

22 Q Did you perform any endoscopies on those
23 children?

24 A On which children?

25 Q Any of the children that were the claimants

KRIGSMAN - CROSS

1 in the United Kingdom litigation.

2 A I don't know if any of my patients were
3 claimants. I don't know that.

4 Q Now, in addition to your practice at
5 Thoughtful House, you have a medical practice in New
6 York. Is that correct?

7 A Correct.

8 Q It was unclear during your direct testimony.
9 Are you still practicing general pediatrics?

10 A No. I stopped that two years ago.

11 Q You first met Michelle Cedillo in September
12 2003, when her parents brought her to New York to see
13 you. Is that correct?

14 A Correct.

15 Q Now, Doctor, you wrote a report in this
16 case, dated February 4, 2007, which has been filed as
17 Petitioner's Exhibit 59. I'll go ahead and hand you a
18 copy of your report for you to refer to. Do you
19 recall writing this report?

20 A I do.

21 Q And on page 2 of your report, you state
22 that, about Michelle, "Her gross motor, fine motor,
23 behavioral and emotional development proceeded in an
24 age-appropriate manner during the first year, as
25 evident by the pediatrician's notes and home videos."

KRIGSMAN - CROSS

1 Doctor, what enables you to assess whether
2 or not Michelle was developing in an age-appropriate
3 manner during her first year of life?

4 A This is the history that I obtained, so this
5 information is from the history that one usually gets
6 when encountering a patient for the first time.

7 Q What type of history did you get? Let me
8 rephrase that. A history from whom?

9 A This came from Mrs. Cedillo.

10 Q Did you review all of the medical records in
11 this case?

12 A I don't think I reviewed all of them. I
13 reviewed my entire medical chart and perhaps some of
14 the hospital records when she was hospitalized in
15 Yuma, but, in general, my charts, Theresa and I have
16 an ongoing relationship, and she pretty much sends me
17 everything that --

18 Q Now, Doctor, is it your understanding, after
19 reviewing the medical records, that Michelle's GI
20 symptoms that developed following her second bout of
21 fever continued to worsen over the ensuing months?

22 A That's my understanding. That's correct.

23 Q Do you have an understanding of how long
24 those GI symptoms lasted?

25 A It was really, the vomiting lasted for,

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1 like, 10 weeks or 11 weeks or 12 weeks or thereabout.
2 It sort of tapered off. This is, again, by the
3 history that I got. I didn't know Michelle at that
4 point. The history that I obtained was that the
5 diarrhea lasted for a good year or two and then became
6 constipation, primarily constipation, difficulty
7 stooling. That lasted for about another year or two -
8 - again, I would have to look at the exact records --
9 and then the diarrhea started again, and it's
10 persisted since then, so it's been many years now
11 where the only symptom has been diarrhea.

12 Q Now, Doctor, you first met Theresa Cedillo
13 at a DAN, Defeat Autism Now, conference in October
14 2002. Is that correct?

15 A Yes.

16 Q Do you remember speaking with her about
17 Michelle at that time?

18 A Yes, I do.

19 Q Was that the first time that you had a
20 discussion with Mrs. Cedillo about Michelle?

21 A Yeah. I hadn't met her before that.

22 Q That was the first time you met her.

23 A Yeah.

24 Q Now, sometime, Doctor, before January 15th
25 of 2003, you told Mrs. Cedillo that it was your

KRIGSMAN - CROSS

1 recommendation that Michelle undergo another
2 endoscopy. Is that correct?

3 A That's correct.

4 Q What was your recommendation based on?

5 A I stated before that, in the six months
6 preceding the time that I met Michelle, in September
7 of '03, her condition considerably worsened.
8 Specifically, she had lost 20 pounds in the preceding
9 six months. She had worsening of her diarrhea in
10 terms of the number of stools per day and also the
11 consistency of the stool. Her degree of abdominal
12 pain worsened, so she was much more irritable and much
13 more self-abusive, and her arthritis had worsened as
14 well.

15 So the overall downturn in her clinical
16 condition, coupled with the fact that the January of
17 '02 colonoscopy was normal, made me want to search for
18 an inflammatory origin of her symptoms, and that would
19 require getting a biopsy.

20 Q Doctor, do you recall that Michelle was
21 hospitalized for dehydration on May 17th of 2003?

22 A I hadn't met her yet, but that's the history
23 that I got.

24 Q And, Doctor, at this time, Michelle's
25 treating gastroenterologist, Dr. -- I'm not sure of

KRIGSMAN - CROSS

1 the pronunciation -- Montes, did not want to perform
2 another endoscopy on Michelle. Isn't that correct?

3 A I don't know.

4 Q Well, referring to Petitioners' Exhibit 28
5 at 51, which we'll put on the screen, Mrs. Cedillo
6 sent you an e-mail, and she told you that Dr. Montes
7 told her that Michelle's problem of not eating and
8 drinking, in his opinion, was behavioral in nature and
9 not a gastro one. Correct? Do you recall receiving
10 this e-mail?

11 A I don't recall it, but, obviously, I
12 received this. I'll be happy to read it now. Can you
13 magnify it again? Thanks.

14 (Pause.)

15 THE WITNESS: Okay. I've read it.

16 BY MS. RICCIARDELLA:

17 Q Okay. But you didn't agree with that,
18 Doctor, did you, because, on May 19th of 2003, you
19 responded to Mrs. Cedillo, and we'll put that up: "If
20 you can't find a GI to explore her for GI problems,
21 then you could find a DAN doc near you who could treat
22 her empirically for suspected enterocolitis with anti-
23 inflammatory or steroids." Do you recall writing
24 that e-mail?

25 A I do.

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1 Q And, Doctor, by "DAN doc," you mean a doctor
2 who is part of the Defeat Autism Now?

3 A Well, it's not quite part of it. What I
4 would mean by that is a physician who embraces the
5 notion that autistic children with GI symptoms very
6 frequently have a medical condition that's responsible
7 for those conditions.

8 Q And what did you mean by recommending that
9 she find someone to treat Michelle empirically with
10 anti-inflammatories?

11 A Well, what happens is the story that Theresa
12 told me was my experience because I had already seen
13 so many of these children by this time. It was
14 entirely consistent with well over 100 children that I
15 had seen on endoscope and biopsy until then.

16 So, in my mind, there is very little doubt
17 that, even then, even never having seen her, just from
18 the story, the presentation, there was very little
19 doubt in my mind, coupled with her labs, that she had
20 an enterocolitis. The best way to approach that would
21 be to get a biopsy. There is no question about it.

22 But in the absence of that, if you just
23 can't do it, if no one seems to see it that way in
24 Yuma, or if she physically can't get to one because of
25 other medical reasons, the biopsy could not be done to

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1 confirm the diagnosis, at that point, it becomes
2 appropriate to treat empirically. "Empirically" means
3 you make the assumption, based upon your knowledge and
4 experience, that this diagnosis is the most likely
5 one, and we treat accordingly.

6 Good physicians tend to avoid treating
7 empirically because that tends to obscure some of the
8 findings that you otherwise could get, and it would
9 leave questions that potentially could be answered
10 unanswerable. So you really avoid doing that whenever
11 possible, but if the situation doesn't allow for any
12 alternative, then empiric therapy is accepted.

13 Q Doctor, further in this same e-mail, you
14 state that you would be available to be a sounding
15 board to another physician so long as that person was
16 responsible and a prescribing physician. Do you
17 recall writing that?

18 A Yes.

19 Q Now, Doctor, the next day, on May 20th --

20 A I didn't quite say "as long as they were
21 responsible." That's a misquote from what I wrote.

22 Q "[S]o long as the responsible and
23 prescribing physician --"

24 A No. So long as they are the responsible
25 physician, not that their character is responsible.

KRIGSMAN - CROSS

1 In other words, they are responsible for the care of
2 the patient.

3 Q Okay. Now, on the next day, on May 20th of
4 2003, Mrs. Cedillo wrote you back an e-mail, and I'm
5 referring to Petitioners' Exhibit 28 at 107.

6 MS. CHIN-CAPLAN: What number?

7 MS. RICCIARDELLA: Twenty-eight at 107.

8 MS. CHIN-CAPLAN: Thank you.

9 BY MS. RICCIARDELLA:

10 Q She stated that she had been talking to Dr.
11 Cindy Schneider in Phoenix, who, herself, was a parent
12 of two autistic children. She says, I quote: "She is
13 not a gastro, so unable to scope, but very willing to
14 prescribe help in any way."

15 Doctor, did you ever have a conversation
16 with Dr. Schneider about Michelle?

17 A I don't recall ever speaking with Dr.
18 Schneider about Michelle.

19 Q At that time, Doctor, in May of 2003, did
20 you ever recommend to another physician that he or she
21 prescribe anti-inflammatories or steroids to Michelle?

22 A I don't think so. I don't recall telling
23 any physician or speaking with any of her physicians
24 at that point.

25 Q Doctor, on July 10th of 2003, you wrote a

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1 letter addressed "To Whom It May Concern," and I'm
2 referring to Petitioners' Exhibit 28 at 84. In the
3 letter you state, "Over the past six months, her --"
4 meaning Michelle "-- inflammatory bowel condition has
5 worsened to the point of requiring hospitalization for
6 severe dehydration and malnutrition." Do you recall
7 writing this letter?

8 A Yes, I do.

9 Q And in the letter, you further state, "I'm
10 only one of three pediatric gastroenterologists in the
11 United States with significant experience in
12 diagnosing and providing appropriate treatment for
13 children with autism and this particular form of
14 inflammatory bowel disease that is somehow associated
15 with autism."

16 Now, you made this statement about Michelle
17 having inflammatory bowel disease to such an extent
18 that it required hospitalization before you had even
19 met her. Correct?

20 A That's correct.

21 Q And, Doctor, when you refer to this
22 particular form of inflammatory bowel disease, are you
23 referring to autistic enterocolitis?

24 A I am.

25 Q Doctor, you wrote another letter, on August

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1 5th of 2005, addressed "To Whom It May Concern," and
2 I'm referring to Petitioners' Exhibit 28 at 73, and
3 you state in the letter that Michelle needs a
4 colonoscopy and upper endoscopy, and you further state
5 that only two individuals in this country have any
6 experience in the colonoscopic findings in children
7 with autism.

8 A That's correct.

9 Q Now, Doctor, on July 10th, you were one of
10 three people who had the requisite experience, but
11 now, on August 5th, you're one of two. Who is the
12 third, and what happened to him?

13 A That may have been a mistake. Tell me the
14 years again of these letters.

15 Q 2003.

16 A In 2003. I know that the other person with
17 experience with these children and scoped a large
18 number of them is Dr. Tim Buie at Mass. General in
19 Boston.

20 Q Whose name was that?

21 A Timothy Buie, B-U-I-E. He is another
22 pediatric enterologist who has a specific interest in
23 the bowel disease of these children.

24 Q He was at Mass. General?

25 A He is at Mass. General. The only other

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1 physician in the country -- I don't know why I wrote
2 three and then two, but either are, at least at the
3 time of writing this letter, the only other person who
4 had expressed an interest, and I had spoken to in
5 looking into these children, is Dr. Michael Hart, who
6 I spoke to on the phone.

7 I'm pretty sure I had spoken with him by
8 then, and he had expressed interest in looking at
9 these kids and taking symptoms seriously as a sign of
10 potential bowel disease and having a lower threshold
11 perhaps to make a diagnostic biopsy, to have a high
12 index of suspicion of an underlying bowel
13 inflammation.

14 He expressed also a desire to do formal
15 research in this area.

16 Q And where does Dr. Hart practice?

17 A He is in Virginia. I don't recall the name
18 of the hospital.

19 Q Now, Doctor, you first saw Michelle, I
20 believe you testified, in New York.

21 A I should also mention that Dr. Hart has
22 collaborated with Dr. Wakefield in gathering data on
23 these patients, and the work has not yet been
24 published, but I know that the data has been gathered.

25 Q Are Dr. Hart and Dr. Wakefield working on a

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1 study?

2 A Yes, yes.

3 Q Do you know, have they submitted it for
4 publication?

5 A I do not know if it's been submitted. I was
6 not part of that study.

7 Q Now, Doctor, you first saw Michelle in New
8 York in September 2003. I believe that's been your
9 testimony. Correct?

10 A That's correct.

11 Q And on September 25th of 2003, you performed
12 an upper and lower endoscopy on her. Correct?

13 A That's correct.

14 Q And in the results of the endoscopy, you
15 found lymphonodularity and aphthous ulcerations.
16 Correct?

17 A That's correct.

18 Q And that, you believe, is evidence of
19 inflammation of her bowel, specifically, inflammatory
20 bowel disease.

21 A That is partial evidence. That's correct.

22 Q And following the September 25, 2003,
23 endoscopy, you described two anti-inflammatories. One
24 was prednisone. Is that correct?

25 A Correct.

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1 Q What is the other one? I didn't catch that.

2 A There were three, actually, not two.

3 Q What are the three anti-inflammatories you
4 prescribed?

5 A Prednisone, as you mentioned; 6-MP; and
6 sulfasalazine.

7 Q Now, Doctor, following the September 25,
8 2003, endoscopy, did you believe Michelle had Crohn's
9 disease?

10 A No. I did not think it was Crohn's disease.
11 If they asked to label it, I sort of refrained from
12 giving it a label because I didn't know what label to
13 give it. It was bowel. It was a nonspecific
14 enterocolitis of the kind that we see in autistic
15 children. That's the most specific I can be, autistic
16 enterocolitis.

17 At that point, I didn't feel that I had
18 evidence of the characteristic features that would
19 enable me to label it as Crohn's disease.

20 Q Well, Doctor, on November 23rd of 2003, you
21 wrote another letter, "To Whom It May Concern," and
22 I'm referring to Petitioners' Exhibit 28 at 424, and
23 you state, "As part of Michelle's Crohn's disease, she
24 appears to have uveitis."

25 Why did you think, on November 23 of 2003,

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1 that she had Crohn's disease?

2 A I don't know. I may have been nonspecific
3 in my terminology.

4 Q But it's your opinion, Doctor, that she has
5 Crohn's disease today.

6 A Yeah, yeah. What convinced me of that,
7 beyond any question, was the PillCam study. Again,
8 beforehand, I would be hesitant to label it as Crohn's
9 disease for the reasons I said. So whether, in my
10 mind, whether you call it an indeterminate colitis or
11 Crohn's disease or autistic enterocolitis, from a
12 treatment standpoint, it makes no difference because
13 the treatment approach would be the same.

14 Q I believe, actually, you wrote about that in
15 a letter, dated May 4th of 2005. I'm referring to
16 Petitioners' Exhibit 28 at 679, and you state, "There
17 are many clinical similarities between autistic
18 enterocolitis and Crohn's disease, but they clearly
19 seem to be two separate entities, at this point;
20 however, the treatment options are the same for both."

21 A That's correct.

22 Q How are the treatment options the same for
23 both?

24 A Well, really, what you want to do is you
25 want to decrease the level of inflammation by using

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KRIGSMAN - CROSS

1 anti-inflammatories. That's one large conceptual
2 approach. The choices of drugs are many, but to
3 reduce bowel inflammation using drugs that are
4 designed to do that is one approach, and the second
5 approach is nutritional, giving enteral feedings.

6 So the approach to treating Crohn's disease
7 encompasses both of those, and the approach to
8 treating autistic enterocolitis involves both of those
9 as well.

10 SPECIAL MASTER HASTINGS: Can I just say for
11 the record, apparently the quotation you just read
12 from is on page 680 rather than 679.

13 MS. RICCIARDELLA: Oh. Thank you for that.

14 SPECIAL MASTER HASTINGS: Is that correct?

15 MS. RICCIARDELLA: Yes.

16 SPECIAL MASTER HASTINGS: Okay. All right.
17 Go ahead.

18 BY MS. RICCIARDELLA:

19 Q Now, in May of 2005, were you treating
20 Michelle as if she had Crohn's Disease?

21 A Again, from a treatment standpoint, it makes
22 no difference in my mind what you call it, because
23 whether it's Crohn's Disease or indeterminate colitis
24 or autistic enterocolitis, the treatment would be the
25 same. My approach would be the same.

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1 Q The same medications?

2 A The same medications, and I didn't mention
3 before, the third approach you have in treating both
4 of these diseases would be the use of drugs that
5 affect the microbial flora content of the bowel.
6 That's the third large category, the interventional
7 approach to treating both Crohn's Disease and also, in
8 our experience, autistic enterocolitis.

9 Q Was she receiving the same dosage as she
10 would, had she had at that time a diagnosis of Crohn's
11 Disease?

12 A It would be the same dose, yes.

13 Q Doctor, during your direct testimony, and I
14 believe it's in one of your slides, you talk about the
15 Feldman, Sleisenger, and Fordtran's Gastrointestinal,
16 and Liver Disease textbook. Is that correct?

17 A Correct.

18 Q You called it authoritative. Is that
19 correct?

20 A Correct.

21 Q You also refer to a textbook called Kumar,
22 Robbins, and Cotran?

23 A Correct.

24 Q I hope I'm pronouncing those right. Would

25 //

KRIGSMAN - CROSS

1 you consider that authoritative?

2 A Absolutely.

3 Q Doctor, you say on page seven of your report
4 that Michelle is an undisputed case of ASD-GI.

5 A That's correct.

6 Q What is ASD-GI?

7 A ASD-GI is a term that we use -- "we" meaning
8 the people that treat children with autism and bowel
9 disease medically -- to designate her as an ASD
10 patient with GI problems.

11 Not all ASD patients have GI symptoms. Not
12 all ASD patients have enterocolitis. But there is a
13 large subset of children with ASD and, you know, we
14 can argue from here until tomorrow how many they are;
15 whether it's 20 percent or 70 percent or whatever.
16 Different papers cite different numbers. But it's
17 clearly a substantial portion of children with ASD who
18 have enterocolitis GI symptoms, biopsy-proven
19 enterocolitis.

20 ASD-GI is a designation that we give to
21 those patients to indicate that they're autistic. But
22 they're the sub-population of autistic children with
23 gastrointestinal disease.

24 Q Is ASD-GI the same thing as autistic
25 enterocolitis?

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1 A No, I don't think it is.

2 Q What is the difference?

3 A In our experience, again, we have autistic
4 enterocolitis that really describes bowel disease of
5 the small intestine and of the colon. But ASD-GI
6 would suggest that the disease doesn't just involve
7 the small bowel and the colon. It may involve the
8 stomach as well, and the esophagus as well; and there
9 are very predictable abnormalities of both the
10 esophagus and the stomach that we see routinely and
11 very frequently.

12 Q If a child just had a disease of the stomach
13 and nothing else and had autism, would that be a case
14 of ASD-GI?

15 A Correct.

16 Q And if the child had a disease of the
17 esophagus and nothing else, would that be a case of
18 ASD-GI?

19 A Correct, it's more of a nomenclature. It
20 tends to put in your mind the notion that there are
21 gastrointestinal manifestations in this child with
22 autism, without relation to the specific organ that
23 that disease is.

24 Q Now Doctor, in the two text books -- the
25 Sleisenger/Fordtran's Gastrointestinal Liver Disease

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KRIGSMAN - CROSS

1 and the Kumar, Robbins, and Cotran that you agreed
2 were authoritative -- does the term ASD-GI appear
3 anywhere?

4 A No, it does not.

5 Q Does the term autistic enterocolitis appear
6 anywhere?

7 A No, it does not.

8 Q Now in the last paragraph of your report on
9 page eight, you state the following opinion. "The
10 measles-mumps-rubella vaccine Michelle received
11 contributed significantly to her subsequent
12 development of enterocolitis, and that it is the
13 persistence of the virus in the lymphoid tissue of the
14 bowel that is causing the ongoing enterocolitis."

15 So there are two premises to your opinion,
16 and correct me if I'm wrong. The first is, you
17 believe she suffers from enterocolitis, correct?

18 A I do. That's correct.

19 Q The second, you believe that the
20 enterocolitis is caused by the persistence of measles
21 virus from the MMR vaccine in the lymphoid tissue of
22 her bowel, correct?

23 A I do. That's correct.

24 Q Let's look at the first premise of your
25 opinion and why you think she has enterocolitis, and I

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1 know that you went through this in your direct. First
2 of all, what does "itis" mean?

3 A Itis means inflammation.

4 Q And enteritis is inflammation of the small
5 bowel?

6 A That's correct.

7 Q And colitis is inflammation of the colon?

8 A Correct.

9 Q So enterocolitis is inflammation of the
10 large and small intestine?

11 A That's correct.

12 Q Now for evidence that she has inflammation
13 of the large intestine, in fact, on page six you
14 state, "That Michelle has colitis is beyond question."

15 A That's correct.

16 Q And for evidence that she has colitis, you
17 cite to the January 2002 endoscopy, the September 2003
18 endoscopy, and the June 2006 endoscopy. Is that
19 correct?

20 A Could you say that again? What page would
21 that be on?

22 Q Page six of your report.

23 A Okay, I'm sorry, what were you quoting?

24 Q You say, "That Michelle has colitis is
25 beyond question, as evidenced by colonic aphthous

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1 ulcerations seen on two separate occasions by two
2 different gastroenterologists."

3 A Here we go -- correct, and in the question
4 before, you mentioned --

5 Q I just want to make sure I'm understanding
6 exactly what evidence you're relying upon for your
7 diagnosis of colitis. Is it the report of the 2002
8 endoscopy?

9 A No, no, it's not.

10 Q Okay.

11 A I'm relying on my colonoscopy in September
12 of 2003, and the colonoscopy in 2006.

13 Q Okay, and you state on page six of your
14 report that Michelle's diagnosis of enteritis is also
15 beyond question as evidence by the presence of small
16 bowel aphthous lesions. For that, Doctor, you were
17 relying on the findings from the PillCam, from the
18 June 2006 capsule imaging?

19 A That's correct.

20 Q Based on these findings of colitis and
21 enteritis, is that the basis of your opinion that she
22 has enterocolitis. Is that correct?

23 A That's not correct.

24 Q What is the basis of your opinion that she
25 has enterocolitis?

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1 A That is a portion of my opinion.

2 Q What else?

3 A My opinion is based upon the presence of
4 aphthous ulcerations in the small bowel in the colon,
5 in a manner and fashion which has been described to
6 exist in Crohn's Disease and in the small bowel, in
7 particular, in the presence of a history of abdominal
8 pain and vomiting; in the presence of a physical exam
9 that shows uveitis and arthritis; in the presence of
10 elevated sedimentation rates, creative protein,
11 thrombocytosis, and elevated OmpC test; and with the
12 clinical response to anti-inflammatory medications
13 that you would expect for someone who has
14 enterocolitis.

15 So that constellation of those observations
16 leads me to conclude beyond any doubt that this is her
17 diagnosis.

18 Q Doctor, if the facts were different and
19 there's no uveitis and no arthritis, would your
20 opinion be the same?

21 A That's a hypothetical question, and I'm not
22 sure. It depends on the overall scenario.

23 Q The overall scenario is exactly the same.
24 I'm just taking out the uveitis and the arthritis.
25 Would your opinion that she has enterocolitis be the

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1 same?

2 A That's a difficult question to answer.

3 Q So you don't know?

4 A I don't know, right. The diagnosis of
5 Crohn's Disease is often based on a combination of
6 clinical criteria. Unless you're fortunate enough to
7 have the specific finding like a stenosis of the small
8 bowel or a fistula or a granuloma, unless you have
9 that, it's often difficult to be certain that Crohn's
10 Disease is the diagnosis.

11 That's why the utility of the serologic
12 marker, this ompc that I referred to, was such a great
13 advance in helping us diagnose Crohn's Disease and
14 also distinguish it from ulcerative colitis, which has
15 different markers that are associated with it.

16 So really, the diagnosis does not rest on
17 one or two findings. It's really a constellation of
18 the presenting signs and symptoms and labs. To chop
19 off one and say we just don't feel the same way is
20 really hypothetical.

21 Q Just so I'm clear, are you equating -- can
22 one have enterocolitis and not have Crohn's or
23 ulcerative colitis?

24 A Absolutely.

25 //

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1 Q Now Doctor, let's look at the second premise
2 of your opinion, that measles virus from the MMR
3 vaccine Michelle received is persisting in the
4 lymphoid tissue of her bowel and causing
5 enterocolitis. Doctor, do you have an opinion as to
6 why the measles virus is persisting the lymphoid
7 tissue of her bowel?

8 A I don't have an opinion. I have suspicions
9 based upon published reports. That's not my area of
10 expertise. I haven't formed an opinion, yet. But I
11 suspect that it's due, and the weight of the
12 literature as reviewed by Ashood and I mentioned that
13 before, suggests that there's a skewed inflammatory
14 response in favor of pro-inflammatory cytokines versus
15 cytokines that are counter-inflammatory. That seems
16 to be the overall pattern in a number of publications.

17 That seems to be a consistent finding. The
18 exact levels of cytokines and which ones may differ
19 from study to study. But that seems to be overall
20 pattern. So I suspect, and if you ask me to suspect,
21 it has to do with a patient's immune activity.

22 Q Doctor, you're not an immunologist, correct?

23 A I am not.

24 Q Doctor, are you saying that you suspect that

25 //

KRIGSMAN - CROSS

1 she had a disregulated immune system at the time she
2 received her MMR vaccine?

3 A In response to your question, that's my
4 suspicion, what I believe.

5 Q And do you have an opinion as to why she had
6 a disregulated immune system at the time of her MMR
7 vaccine?

8 A That I don't know.

9 Q Okay, now in support of your opinion that
10 Michelle has persistent measles virus in the lymphoid
11 tissue of her bowel, you cite to the positive finding
12 in 2002 by the Unigenetics in Dublin, Ireland of
13 measles RNA in the tissue sample tested in Michelle,
14 correct?

15 A By the published report, correct, of their
16 findings.

17 Q But from Unigenetics, specific to Michelle.

18 A Right.

19 Q Doctor, if these tests from Unigenetics were
20 shown to not be reliable, would your opinion still be
21 the same?

22 A If they were shown, demonstrated not to be
23 reliable, my opinion today still would be the same.
24 Because we seem to be mounting our own evidence with
25 the specimens that I've obtained.

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1 We've shown in at least six patients with
2 autism, with bowel symptoms, who underwent a
3 diagnostic endoscopy, looking for enterocolitis, most
4 of whom had diagnosed enterocolitis on biopsy -- we've
5 found, using a different lab and different
6 investigators in at least six of them that there's
7 vaccine strain, measles virus genome.

8 So in my mind, there has been at least
9 preliminary confirmation of that report. So even if
10 you were to tell with absolute certainty that the
11 findings of the lab in Dublin were erroneous, I still
12 would tend to believe in our own experience and
13 preliminary evidence anyway that there is a virus
14 there. We know it's there in at least some of the
15 kids.

16 Q So then I take it from your opinion that if
17 no test had been done at all, so we don't have
18 evidence either way, would that affect your opinion?

19 A If there's no evidence either way, that
20 would definitely affect my opinion.

21 Q And how would that affect your opinion?

22 A If there's no evidence, then I might tend to
23 avoid making an opinion.

24 Q So if Michelle's tissue had never been sent
25 //

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KRIGSMAN - CROSS

1 to any laboratory, your opinion that she has
2 persistent measles virus in her bowel would be
3 different?

4 A I wouldn't know with certainty, you know,
5 just to respond to your question, if I knew that the
6 published reports describing measles virus were
7 accurate; and in response to your question, Michelle
8 never had a biopsy or tested for measles virus.

9 I could reasonably hypothesize, well, the
10 other clinical characteristics of this patient are
11 identical to those patients who were subsequently
12 confirmed to have measles virus. So I would certainly
13 be open to that possibility.

14 Q Doctor, assume the facts are the exactly the
15 same as this case, but Michelle was shown not to have
16 inflammation in her bowl -- no inflammation, but she
17 has GI symptoms. Would you still be of the opinion
18 that she has ASD-GI?

19 A If she has no inflammation, so if every test
20 that we know of to do failed to demonstrate
21 inflammation -- that's the question?

22 Q Yes, it's the question.

23 A Then I would consider giving her a trial of
24 an anti-inflammatory; and if she responded the way
25 you'd expect a patient would respond, with

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KRIGSMAN - CROSS

1 inflammation to an anti-inflammatory, then I could
2 reasonably conclude that it is there. I just haven't
3 seen it.

4 Q What if the facts of this case are the same,
5 except she never underwent an endoscopy; but
6 everything else is the same. Would you still think
7 that she had ASD-GI?

8 A Again, that's too many "ifs". What if she
9 had two heads?

10 Q I mean, the facts of the case are exactly
11 the same. It's just she had never undergone any of
12 her five endoscopies. Would you still think she had
13 ASD-GI?

14 A I'd have to give that some serious thought.

15 Q So you don't know?

16 A I don't know.

17 Q Doctor, on the last page of your report, you
18 list the relevant facts to you in this case. The
19 first one, you state that the relevant facts in
20 Michelle's history are (1) the appearance of classic
21 ASD-GI disease, together with other signs of systemic
22 illness, closely to following within seven days the
23 administration of the MMR vaccine.

24 So if I'm understanding, Doctor, you are
25 saying that a significant fact for your opinion that

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KRIGSMAN - CROSS

1 the MMR vaccine caused Michelle's enterocolitis; is
2 that Michelle had symptoms of systemic illness, within
3 seven days of her MMR vaccine?

4 A No, that's a misquote. What I'm saying is
5 that the appearance of her ASD-GI symptoms, the
6 symptoms made their appearance, and time has shown
7 that they were chronic. They never really remitted.
8 She's had GI symptoms from the very onset of this
9 period.

10 Q What symptoms are you referring to?

11 A Well, initially, she had vomiting and
12 diarrhea. the vomiting improved. The diarrhea
13 reverted to constipation. At that point, it went back
14 to being diarrhea, and it has remained diarrhea for
15 many years. So there's never been a period of time in
16 Michelle's history where she's been free of GI
17 symptoms.

18 Q Is it your understanding that she had GI
19 symptoms, the vomiting and diarrhea seven days after
20 the MMR vaccination?

21 A Within seven to fourteen days. That's the
22 history I got -- so very soon, yes.

23 Q Would your opinion be different if the onset
24 of vomiting and diarrhea was one month later?

25 A No, not in one month.

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KRIGSMAN - CROSS

1 Q What about two months?

2 A I would say six months, and let me explain
3 myself. This question I will answer even though it's
4 hypothetical, because in our experience, we've seen
5 many cases of children with autistic enterocolitis.
6 We've advised biopsy and confirmed on biopsy to have
7 it, who when you get a careful history from the
8 parents, the GI symptoms don't appear until many
9 months after MMR.

10 Even in those cases who had a regression
11 immediately after MMR, some of them don't manifest the
12 symptoms, like the diarrhea, until months after that.
13 In our experience And all we can rely on is the
14 symptom presentation. You can't know what's in there
15 obviously. So that's why I would answer you that if
16 the appearance of GI symptoms occur in as late as four
17 to six months afterwards, I still would consider it
18 related.

19 Q So anything after six months though, you
20 would consider unrelated to the MMR vaccine?

21 A Now we have kits even after six months?

22 Q I mean, what's your limit. You just said
23 six months. Would it be seven months?

24 A No, again, this has to do with our -- we
25 haven't quantified it, so I can't give you an exact

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KRIGSMAN - CROSS

1 number. But in my experience, thinking back over all

KRIGSMAN - CROSS

1 of the cases we've seen, that's how I'm going to be
2 answering your question -- that the majority of them,
3 of the children, who thought they had been diagnosed
4 with enterocolitis and biopsy.

5 The majority of them have presented with GI
6 symptoms within six months of their MMR. This is an
7 opinion, because you asked me for one and we don't
8 have it. I can't cite you data. But I also know from
9 our experience that the onset of GI symptoms -- many
10 of the children with classic regressive autism
11 occurred even over a year, after the onset of their
12 regression. So there's a lot about bowel disease that
13 we don't understand.

14 Q From my understanding, if Michelle's
15 diarrhea and vomiting occurred one year, post-MMR,
16 would your opinion be different?

17 A The opinion of what?

18 Q That the MMR vaccine caused her
19 enterocolitis.

20 A No, not if we found the virus there.

21 Q I thought you just said that it's not
22 necessary to find measles virus; whether or not there
23 is a positive finding of measles virus is not a
24 necessary part of your opinion. You said that it
25 doesn't matter to you if the results from the

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KRIGSMAN - CROSS

1 Unigenetics Lab were found to be unreliable.

2 A That's not what I said.

3 Q What did you say?

4 A I'm not sure what you're referring to.

5 Q I asked you a question, that if it was shown
6 that the results from the Unigenetics lab are shown to
7 be unreliable, would your opinion that she has
8 persistent measles virus in her lymphoid tissue of her
9 bowel be different? You said, no.

10 A Well, we have our own experience with that.
11 So what I said was that I would strongly suspect,
12 based upon our experience, that that's what caused it.

13 If you asked me if I would know that for
14 certain, the answer is no. Because without getting a
15 result on Michelle, and your question was
16 hypothetical, where there was no Unigenetics result,
17 would I still think she had it. I couldn't know that
18 she had it, unless I had a result.

19 Q So a positive finding of measles virus is a
20 necessary component, measles virus R&A in the lymphoid
21 tissue of the bowel is a necessary component of your
22 opinion that a child has persistent measles virus due
23 to the MMR vaccine?

24 A That's correct.

25 Q Okay. Now, Doctor, at the end of your

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KRIGSMAN - CROSS

1 testimony, you were referring to a poster presentation
2 that was presented at the IMFAR conference in 2006.

3 I'm referring to Petitioner's Exhibit 59 at Tab K.

4 You describe it as a study that you're doing with Dr.

5 Steven Walker and Dr. Karen Hepner. Who was the

6 other?

7 A Dr. Jeff Segal.

8 Q Jeff Segal -- now you presented on the
9 poster preliminary data, correct?

10 A That's correct.

11 Q This is not a blinded study, is it?

12 A No, this work was not blinded.

13 Q Okay, and are you still in the data
14 collection phase?

15 A We are.

16 Q Doctor, who funds this study?

17 A This study is funded by a variety of
18 sources. As best as I recall, it was money that came
19 from the Autism Research Institute. There was some
20 private funding from individuals, and there was
21 private funding from also a private foundation.

22 Q Do you have an autism expert in the study?

23 A An autism expert -- do you mean a
24 neurologist?

25 Q A neurologist.

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KRIGSMAN - CROSS

1 A No, we have no neurologists involved in the
2 study.

3 Q A psychiatrist?

4 A We have no psychiatrists involved in the
5 study.

6 Q Do you have somebody who can verify the
7 diagnosis of regressive autism?

8 A They've all been seen. They've all been
9 evaluated.

10 Q Do all these children in the study have the
11 diagnosis of regressive autism?

12 A No -- I'm not sure. I'm not sure. I don't
13 know if these kids were all regressive or if these
14 kids were just autistic.

15 Q How do you select the kids that participate
16 in the study?

17 A Basically, it's just the kids who presented
18 for an endoscopy, colonoscopy, based upon their GI
19 symptoms, who we obtain biopsies of the ilium.

20 Q Presented to you, or do other people
21 contribute tissue samples to the study?

22 A No, these are all patients that were
23 biopsied by me.

24 Q By you -- did you charge them for the
25 endoscopies?

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1 A Yes, sure. But we did not charge them for
2 any research-related cost. So whatever costs are
3 involved, to process the specimens for the research or
4 to test them is not billed to the patient. They are
5 only billed for that portion of the endoscopy which is
6 clinically indicated.

7 Q What's the sample size?

8 A We have over 275 specimens that are banked
9 and have been preserved properly. So that's the
10 potential pool that was indicated in the poster.

11 Q Have you submitted this at all for
12 publication, yet?

13 A I mentioned before, it's still a data
14 gathering process.

15 Q Now Doctor, were you at IMFAR conference in
16 2006?

17 A No, I was not there.

18 Q Okay, so this poster was presented not
19 by you, correct?

20 A Correct, Dr. Steve Walker was there.

21 Q Now do you know though doctor that right
22 next to your poster at the IMFAR conference in 2006,
23 there was a poster contradicting your findings?

24 A I had heard that, yes.

25 Q And that was from Doctors D'Jouza Fombonne,

KRIGSMAN - CROSS

1 and Ward?

2 A Correct; it didn't quite contradict the
3 findings. That's a misstatement.

4 Q They have since published the results of
5 their study in Pediatrics, correct?

6 A That's correct.

7 MS. RICCIARDELLA: I have no further
8 questions; thank you.

9 SPECIAL MASTER HASTINGS: All right, let me
10 take a look and see if I have any questions that
11 weren't asked, if you'll bear with me for a moment,
12 Doctor.

13 Did I hear you, Doctor, talk about Theresa
14 Cedillo's difficulty in finding a pediatric
15 gastroenterologist close enough to treat Michelle?

16 THE WITNESS: Close enough, yes.

17 SPECIAL MASTER HASTINGS: As I understood
18 her testimony, there was no pediatric
19 gastroenterologist in Yuma.

20 THE WITNESS: Correct

21 SPECIAL MASTER HASTINGS: And that was part
22 of the reason she ended up seeing you. But did I
23 recall that you were helping her to try to get
24 somebody closer to home than New York City?

25 THE WITNESS: I spent hours on the phone,

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1 coordinating Michelle's care, not just with other
2 gastroenterologists, but with the rheumatologist, and
3 the ophthalmologist, and the pediatricians, and the
4 radiologists. We put a lot of time and effort into
5 making sure that Michelle got to the people that were
6 able to help her.

7 SPECIAL MASTER HASTINGS: Refresh my memory,
8 you testified, I think, to helping her get in touch
9 with a new treating pediatric gastroenterologist who
10 was closer.

11 THE WITNESS: That's correct.

12 SPECIAL MASTER HASTINGS: Somewhere in
13 California, I think.

14 THE WITNESS: That's where she ended up.

15 SPECIAL MASTER HASTINGS: Can you tell me
16 who that was?

17 THE WITNESS: David Ziring at UCLA.

18 SPECIAL MASTER HASTINGS: That was the one
19 in Los Angeles.

20 THE WITNESS: Right, right.

21 SPECIAL MASTER HASTINGS: All right, now I'm
22 just curious. My geography isn't that good. But I
23 would think that Phoenix or San Diego would be a lot
24 closer than Los Angeles. Was there nobody in those
25 areas that would be qualified?

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KRIGSMAN - CROSS

1 THE WITNESS: That's more of a question for
2 Theresa. You know, she would tell me who she wanted
3 to go see, based upon her insurance plan. Before she
4 ever sees anyone, she researches them, as you may have
5 understood from hearing her talk.

6 So she would look for people with an
7 academic background in inflammatory bowel disease, and
8 a track record of an inquisitive mind. Those are the
9 ones who she singled out and pursued them.

10 SPECIAL MASTER HASTINGS: Okay, bear with me
11 a minute. I think all the questions I was going to
12 ask have been asked by one counsel or the other. Do
13 any of the Special Masters have questions?

14 SPECIAL MASTER CAMPBELL-SMITH: I do.

15 SPECIAL MASTER HASTINGS: Okay.

16 SPECIAL MASTER CAMPBELL-SMITH: I have a
17 couple of questions. Doctor, I have just a couple
18 questions regarding your poster presentation. For the
19 record, this is Special Master Campbell-Smith.

20 You indicated that you were not certain
21 whether the study just was restricted to kids with
22 regressive autism, or if it were a broader set of
23 autistic kids.

24 THE WITNESS: Right; I'd have to check with
25 Dr. Walker about that.

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1 SPECIAL MASTER CAMPBELL-SMITH: Okay.

2 THE WITNESS: I seem to recall it was
3 limited just to regressive autism, but I don't want to
4 say that with certainty.

5 SPECIAL MASTER CAMPBELL-SMITH: That point
6 of clarification would be appreciated.

7 THE WITNESS: Okay, certainly.

8 SPECIAL MASTER CAMPBELL-SMITH: Of all the
9 kids that were included in the study, you indicated
10 that they all had GI problems, including there was a
11 reference to the four postmortem specimens, or ones
12 that had GI problems, as well?

13 THE WITNESS: The postmortem specimens?

14 SPECIAL MASTER CAMPBELL-SMITH: They're in
15 your in the the larger -- I'm referring to the paper
16 presentation at page nine.

17 SPECIAL MASTER HASTINGS: The poster.

18 THE WITNESS: Oh, the controls.

19 SPECIAL MASTER CAMPBELL-SMITH: Yes, they're
20 controls. I'm sorry. For the record, I'm referring
21 to Petitioner's Trial Exhibit 3, at page nine. You
22 indicated that you currently have 15 non-autistic
23 pediatric controls; four of which were postmortem
24 specimens of nonautistic children. Those specimens,
25 were they associated with children who had GI

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KRIGSMAN - CROSS

1 problems?

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KRIGSMAN - CROSS

1 THE WITNESS: No, no, they were not. The
2 four postmortem specimens were obtained from a
3 Government program called the CHTN. That's the
4 acronym. I forget what the "C" stands for. But HTN
5 is Human Tissue Network, and it's a program you apply
6 for with a formal application, and there are
7 participating hospitals.

8 You specify what you want; what kind of
9 tissue and how you want it preserved, how you want it
10 processed, how you want it sent, where you want it
11 sent to. When a patient expires at a participating
12 hospital, they then go and they harvest the organ that
13 you requested and send it to you for research
14 purposes. So collaborative -- Cooperative Human
15 Tissue Network. So we received four postmortem
16 specimens from them. That's what that is referring
17 to.

18 SPECIAL MASTER CAMPBELL-SMITH: Okay, and
19 they were non-autistic and did not have GI problems?

20 THE WITNESS: That's correct.

21 SPECIAL MASTER CAMPBELL-SMITH: Okay,
22 another matter, you indicated that it did make some
23 difference to you regarding the onset of
24 gastrointestinal problems after the receipt of the MMR
25 vaccination. Outside of six months, longer than six

KRIGSMAN - CROSS

1 months was, in your view, perhaps too long.

2 THE WITNESS: I didn't quite say that. I
3 said most of the kids. In thinking back at our
4 experience, we haven't quantified that data and looked
5 at that question specifically. But a lot of parents
6 ask me this question. So I've thought about it, and
7 our experience with many hundreds of these children,
8 the majority of them have an onset of their GI
9 symptoms within six months of their regression.

10 So to say it was within six months of MMR
11 may actually be inaccurate. But I asked the question.
12 I don't really ask, you know, how in relation to MMR
13 did the GI symptoms present themselves. My real
14 interest is in terms of the regression; whether the GI
15 symptoms precede the regression. In other words, the
16 time that the parents, in retrospect, note that the
17 child has lost milestones.

18 Did the GI symptoms precede that period?
19 Did it occur at about the same time; or did it occur
20 after the regression? That's the question I really
21 ask all patients. I don't ask what the chronologic
22 association was between the MMR vaccine and the GI
23 symptoms.

24 When I ask parents about the correlation
25 //

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KRIGSMAN - CROSS

1 between the onset on regression and onset of GI
2 symptoms, most parents will say that the GI symptoms
3 occurred within six months of the time that they noted
4 that their child has regressed. That's what I say.

5 But as I mentioned, that's most of them.
6 There are a number that have GI symptoms presenting a
7 year later, or over a year later.

8 SPECIAL MASTER CAMPBELL-SMITH: Is that
9 something you're tracking with respect to your ongoing
10 study?

11 THE WITNESS: Yes, we have that data. We
12 have it entered. We have a very detailed data base
13 that's in the process of being improved even further.
14 We get very specific histories from our patients,
15 specifically for this purpose.

16 SPECIAL MASTER CAMPBELL-SMITH: Is that
17 primarily from parents, or is that from physicians as
18 well?

19 THE WITNESS: It's all parents. I mean, our
20 experience has been that what it comes to these
21 symptoms, the parents are the most reliable source of
22 information.

23 SPECIAL MASTER CAMPBELL-SMITH: Doctor
24 Krigsmann, there was an issue that you declined to want
25 to address earlier during your direct examination.

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KRIGSMAN - CROSS

1 That was the occurrence of lymphonodular hyperplasia,

549A

KRIGSMAN - CROSS

1 whether or not that's a normal finding.

2 In your experience as a pediatric
3 gastroenterologist, I've read quite a bit of submitted
4 material that seems to suggest that this phenomenon
5 can occur, or there's a correlation between the number
6 of invasive techniques and endoscopies, colonoscopies,
7 that have been administered. Do you have a view?

8 THE WITNESS: Oh, yes, I have a very strong
9 view about that. Lymphoid hyperplasia is the response
10 of the immune system to something. It's a response.
11 The lymphoid nodule, the germinal center starts
12 replicating. The B cells are being produced, and
13 there's a swelling that you can see visibly.

14 So it's an immune response. It always means
15 something. The question is, whether it's a
16 pathological process that needs to be treated; or does
17 it indicate disease? That's an entirely different
18 question.

19 So yes, in the course of day-to-day living,
20 a child might ingest something; or become transiently
21 ill with a virus that clears after a week or two, and
22 he may be left with residual small lymphoid
23 hyperplasia, which clearly is not normal. It's a
24 response to something. It's not pathologic. We don't
25 need to address it or deal with it.

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KRIGSMAN - CROSS

1 On the other hand, there are certainly a
2 number of disease conditions that hyperplasia is an
3 integral part of. So if you take a look at a patient
4 with colitus, you'll find marked LNH. If you look at
5 patients with H pilori gastritis, you'll find marked
6 LNH. If you look at a page with Crohn's Disease, you
7 find marked LNH.

8 So these are all characteristic features of
9 the many disease processes. A lot of the
10 immunodeficiency states, HIV enteritis, also is
11 accompanied by hyperplasia of the small bowel and then
12 the colon.

13 So it clearly is part of a pathologic
14 process in many, many diseases. Now whether it's
15 always pathologic is a matter of debate. As I say, it
16 always means there's been an immune response. That's
17 for sure.

18 But whether it means that there's disease is
19 a different question; and the answer, I believe, is
20 no. So having LNH, in and of itself, in a patient who
21 otherwise is healthy and well, is not indicative of
22 anything other than that lymphoid nodules, once upon a
23 time, saw something and responded to it. That
24 something may or may not still be present.

25 But to therefore say that all LNH is

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KRIGSMAN - CROSS

1 therefore

KRIGSMAN - CROSS

1 normal, it's grossly incorrect, since it's well
2 described as being part and parcel of the description
3 of so many diseases.

4 In our experience with these children, what
5 convinces me that the LNH is part of the pathologic
6 process is that I theorized that if LNH occurs in
7 association with inflammation of the colon, and you
8 can show a statistical correlation between them, that
9 would be significant. That suggests that the LNH is
10 not occurring in the absence of any other findings,
11 but in the presence of inflammation. That suggests
12 that the process is pathologic.

13 We have that data, we have made that
14 calculation. We reviewed well over 100 patients, and
15 one of the analyses that we did was looking first at
16 the statistical correlation between the LNH on the
17 inflammation. We found that patients with LNH were
18 more likely to have inflammation than those without
19 LNH. So that's already in manuscript form. It has
20 not been completed, yet. So to answer your question -
21 -

22 SPECIAL MASTER CAMPBELL-SMITH: Pardon me,
23 Dr. Krigsman. That early manuscript form, is this
24 another paper distinct from your poster presentation?

25 THE WITNESS: Correct, yes, this is a

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KRIGSMAN - CROSS

1 separate analysis that myself and other authors in
2 collaboration have done as a retrospective review of
3 our experience with our first large number of
4 patients.

5 SPECIAL MASTER CAMPBELL-SMITH: Thank you.

6 SPECIAL MASTER VOWELL: Just to follow-up on
7 that, Doctor, retrospective review are you looking at
8 a case control study?

9 THE WITNESS: No, it's simply a large number
10 of patients, and we reviewed our findings and report.
11 So we had "X" number of patients, what did we find in
12 them, and to report it.

13 SPECIAL MASTER VOWELL: And so you're
14 comparing the findings of inflammation versus the
15 endoscopy findings, versus normal statistical -- I'm
16 not sure I understand what you're comparing.

17 THE WITNESS: Not even that; not even that -
18 - it's strictly a report.

19 SPECIAL MASTER VOWELL: So it's not a
20 comparison?

21 THE WITNESS: This is what we did in "X"
22 number of patients. This is what we found, and the
23 results, without a control, without being perspective,
24 it puts certain limitations on the value of that
25 study. That's understood. But a retrospective review

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KRIGSMAN - CROSS

1 of this group of kids, in a large number, will stand
2 on its own, just as a very important piece of
3 information towards the puzzle.

KRIGSMAN - CROSS

1 SPECIAL MASTER VOWELL: We don't commonly
2 perform endoscopies on kids without GI symptoms,
3 correct?

4 THE WITNESS: You never should.

5 SPECIAL MASTER VOWELL: Thank you.

6 SPECIAL MASTER CAMPBELL-SMITH: I have one
7 follow-up question. LNH can occur in the absence of a
8 persistent irritant, a persistent virus?

9 THE WITNESS: Yes.

10 SPECIAL MASTER CAMPBELL-SMITH: You alluded
11 to something that is transient, that moves throughout
12 the system.

13 THE WITNESS: Yes.

14 SPECIAL MASTER CAMPBELL-SMITH: As a matter
15 of fact, and correct me if I'm wrong, in kids with
16 food allergies, for example, does the LNH resolve once
17 the kids stop with the particular foods?

18 THE WITNESS: I don't know if anyone has
19 looked at that, in particular, to see whether food
20 allergy-induced LNH resolves over time. I'm unaware
21 of a paper that looks specifically at that.

22 But I'll tell you, from other areas of the
23 body, any of your lymph nodes, if you have a sore
24 throat and you get a swollen gland, even when you feel
25 better a week later, that swollen gland could be

KRIGSMAN - CROSS

1 present for months and months and months.

2 Particularily, in kids, kids have their
3 persistent tonsil alert. The tonsil is a lymphoid
4 issue, also. Even in the absence of any ongoing
5 inflammation, tonsils are often very large and
6 children are not considered pathologic. But it's the
7 residual hypertrophy of lymphoid tissue which
8 sometimes persists, even after the inciting agent
9 disappears.

10 SPECIAL MASTER CAMPBELL-SMITH: Thank you
11 very much, Dr. Krigsman.

12 SPECIAL MASTER HASTINGS: Dr. Krigsman, I'd
13 like to ask another question, as well.

14 SPECIAL MASTER HASTINGS: Well, concerning
15 your ongoing study that is at Tab K of your articles
16 and your report and that you gave us a copy of the
17 poster for it today, I'm referring to that study, from
18 the quick looking at Tab K, it mentions that biopsy
19 tissue was assayed by the RT-PCR for the presence of
20 measles virus RNA. Now, to that extent, it sounds
21 very much to me like what the Unigenetics Lab did. Is
22 it the same assays we are talking about, the same
23 assay?

24 THE WITNESS: My answer to that would be
25 yes, but I really would defer that question to Dr.

KRIGSMAN - CROSS

1 Hepner --

2 SPECIAL MASTER HASTINGS: Okay.

3 THE WITNESS: -- tomorrow, because she would
4 have much more specific -- I don't want to answer
5 incorrectly.

6 SPECIAL MASTER HASTINGS: Well, maybe that's
7 really my next question. In the case of the -- the
8 Unigenetics, we're talking about a specific lab.
9 Usually when I see these kind of results, these kind
10 of assays done in cases, it's usually reported by such
11 and such lab. So, which -- is it Dr. Hepner's lab
12 that -- what lab, if you know?

13 THE WITNESS: The lab, it was Wake Forest
14 University.

15 SPECIAL MASTER HASTINGS: It is Wake Forest.

16 THE WITNESS: Wake Forest University. Dr.
17 Steve Walker is the biologist over there. It's his
18 lab.

19 SPECIAL MASTER HASTINGS: It's his lab?

20 THE WITNESS: Yes.

21 SPECIAL MASTER HASTINGS: Okay.

22 THE WITNESS: And the specifics of the
23 assay, Steve used a number of different primers, so he
24 was experimenting with a lot of them to see which one
25 would be most productive versus least productive. And

KRIGSMAN - REDIRECT

1 as I say, that's demonstrated in the table. And,
2 again, Dr. Hepner can give you much more --

3 SPECIAL MASTER HASTINGS: Okay.

4 THE WITNESS: -- much more detail about
5 that. So, more primers we used in our study than in
6 the Ulman study.

7 SPECIAL MASTER HASTINGS: All right. That
8 answers my question. Any redirect for this witness?

9 SPECIAL MASTER CAMPBELL-SMITH: Yes, Special
10 Master. Could we possibly take a five-minute break
11 first?

12 SPECIAL MASTER HASTINGS: Let's take a five-
13 minute break. Don't forget that we're going to go
14 dark here and we want to get out before that happens.
15 Okay, let's take a five-minute break.

16 (Whereupon, a short recess was taken.)

17 SPECIAL MASTER HASTINGS: All right. The
18 folks, who were at home, we are back from our break
19 here and Ms. Chin-Caplan for the Petitioners will be
20 asking some more questions of Dr. Krigsman. Ms. Chin-
21 Caplan, please go ahead.

22 MS. CHIN-CAPLAN: Thank you, Special Master.

23 REDIRECT EXAMINATION

24 BY MS. CHIN-CAPLAN:

25 Q Dr. Krigsman, are you aware that Michelle

Heritage Reporting Corporation
(202) 628-4888

KRIGSMAN - REDIRECT

1 Cedillo is now receiving Humira?

2 A I am.

3 Q What is Humira?

4 A Humira is a more recently manufactured anti-
5 TNF drug, which has a lower side effect profile than
6 Remicade that preceded it for a variety of reasons.
7 And she is now receiving that.

8 Q And what are the indications for the use of
9 Humira?

10 A Well, autoimmune diseases that involve tumor
11 necrosis factor as a predominant cytokine would all be
12 expected to respond to Humira. So, diseases such as
13 severe arthritis, rheumatoid arthritis and
14 inflammatory bowel disease are two immediate diagnoses
15 that come to mind that would be expected to respond to
16 Humira, based upon their known predilection for tumor
17 necrosis factor.

18 Q Did you order the Humira?

19 A No; no, I did not. Dr. Ziring, at the UCLA,
20 the pediatric gastroenterologist over there ordered
21 Humira, not at my urging. I have not spoken with Dr.
22 Ziring, nor have I ever e-mailed him or he e-mailed
23 me.

24 Q And Dr. Ziring is Michelle Cedillo's current
25 treating pediatric gastroenterologist?

KRIGSMAN - REDIRECT

1 A That's correct.

2 SPECIAL MASTER HASTINGS: Doctor, before we
3 leave that topic, can you spell the name of that
4 medication for us?

5 THE WITNESS: H-U-M-I-R-A.

6 SPECIAL MASTER HASTINGS: Thank you. Go
7 ahead, Ms. Chin-Caplan.

8 MS. CHIN-CAPLAN: Thank you.

9 BY MS. CHIN-CAPLAN:

10 Q Doctor, you were asked some questions about
11 a situation that occurred at Lenox Hill Hospital. Do
12 you remember those questions?

13 A I do.

14 Q Doctor, could you kindly tell the Court the
15 circumstances of what occurred at Lenox Hill Hospital?

16 A Well, it's a long story, but the -- you
17 know, the essentials of the story is that the hospital
18 was concerned that the endoscopies that I was
19 performing on children with autism and bowel symptoms,
20 very similar to Michelle's history, same kind of
21 diarrhea, same abdominal pain, they were concerned
22 that those procedures were not medically indicated and
23 were being performed for the purpose of research and
24 that was their concern. And in response to that
25 concern, they prevented me from performing further

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KRIGSMAN - REDIRECT

1 endoscopies in the endoscopy unit and that resulted in
2 litigation.

3 Q Doctor, when you perform an endoscopy, are
4 there clinical signs and symptoms, which you rely upon
5 before you would conduct that procedure?

6 A Absolutely. You know, the standard textbook
7 indications, pediatric GI textbook indications for a
8 diagnostic colonoscopy, for example, is the presence
9 of abdominal pain that's chronic, with or without
10 diarrhea, chronic diarrhea with or without abdominal
11 pain. Those two findings, when there is no other
12 explainable cause, you've looked at potential
13 diagnoses and ruled them out based upon either
14 laboratory testing, which includes blood and stool, if
15 you rule that other diagnoses based upon the history
16 and the physical examination, if you've ruled out
17 everything you can think of and what is left is
18 abdominal pain and diarrhea, then the next step is a
19 diagnostic colonoscopy specifically to look for
20 inflammatory changes as being the cause of the
21 abdominal pain and diarrhea. What makes these
22 children different from most other kids that even I
23 had previously encountered in my career as a pediatric
24 neurologist is that traditionally, and this is part of
25 the confusion, traditionally, the way we're taught,

KRIGSMAN - REDIRECT

1 whether it's, you know, taught explicitly or just
2 implied, is that the chances of having bowel
3 inflammation that result in symptoms is unlikely if
4 there is no bleeding or weight loss. This is
5 something that most -- and this is something that I
6 was taught and I believed for quite a long time. So,
7 in the absence of any evidence of bleeding, either
8 visible bleeding or microscopic bleeding or weight
9 loss or low albumin or high sed rate, in the absence
10 of any one of those findings, if you have chronic
11 diarrhea and abdominal pain, you're very unlikely to
12 find bowel inflammation as the cause of the diarrhea
13 and abdominal pain. And that way of thinking is a
14 prevailing way of thinking and it's even supported by
15 a number of studies. It isn't like it's a myth.

16 But, these children have been shown to be
17 different. These children have inflammation that is
18 related to their symptoms, but usually it occurs,
19 these symptoms of diarrhea and pain occur in the
20 absence of gross bleeding, any visible bleeding, in
21 the absence of even microscopic bleeding usually.
22 There are some kids, who have bleeding; most of them
23 don't. Most of the kids don't have an elevated sed
24 rate, even though Michelle did. And because -- and
25 these children, again, have been demonstrated, this

KRIGSMAN - REDIRECT

1 has been published, to have enterocolitis even though
2 they didn't have the other markers that traditionally
3 gastroenterologists have relied on in determining
4 whether -- more likely to find colitis, which is a
5 cause of their symptoms.

6 So, that's the way of thinking and this was
7 the concern of the hospital, that they, therefore,
8 concluded that I must be doing this for research-
9 related reasons, meaning that these children did not,
10 in fact, merit a diagnostic colonoscopy. I was just
11 interested in some research project. And they moved
12 to, and they did prevented me from scheduling any
13 further colonoscopies. And that was the -- and I
14 should mention that these children that I had scoped -
15 - and by the way, it was -- at Lenox Hill, I should
16 mention that it wasn't until after I had scoped more
17 than 100 children there, more than 100 children was
18 scoped at that hospital, that they moved to prevent me
19 from doing further colonoscopies. And the pathologist
20 at the hospital, and there were many of them, a
21 variety of pathologists would read the biopsies, it
22 wasn't just one or two, the frequency with which the
23 hospital's pathologists found this non-specific
24 enterocolitis was close to 70 percent. So, the
25 majority of the children there, and this is all part

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1 of the medical records of these children, it's not my
2 diagnosis, this is the institutional pathologist's
3 diagnosis, despite that, there was still this concern
4 of the hospital that this is something that's
5 different, that they wanted stopped. And that's the
6 story.

7 Q So, Doctor, the children that you wanted to
8 scope, they all had GI symptoms; is that true?

9 A Every single one. Every single patient, who
10 gets a diagnostic colonoscopy, which is what these
11 kids were getting, have chronic symptoms in the
12 absence of an explainable cause.

13 Q And all of the causes had been ruled out, is
14 that true?

15 A Yes. We routinely will do blood testing,
16 stool testing, abdominal x-rays, dietary
17 investigations, dietary changes, urine analysis,
18 looking for urine infections. I mean, the common
19 causes of pediatric GI symptoms are all ruled out.
20 And when that happens and the symptoms persist and
21 they impact the patient's quality of life, the next
22 step is to do a diagnostic colonoscopy, looking
23 specifically for bowel inflammation. And that
24 approach, by the way, has been now adopted by a
25 consensus of pediatric gastroenterologists. Since the

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1 Lenox Hill incident, specifically in October of 2006,
2 there was a meeting of leading pediatric
3 gastroenterologists, and I attended, even though I'm
4 not a leading pediatric GI doctor, I was invited to
5 attend to be part of this meeting and it was held in
6 Boston at the Harbor Club and attended by a number of
7 very prominent pediatric gastroenterologists from this
8 country.

9 And the purpose of the meeting was convened
10 by Autism Speaks. It's an organization that many of
11 you have probably heard of. And it was convened by
12 them -- information about this is available on their
13 website -- specifically to respond to the community
14 interest, the way the website phrases it, this
15 parental concern that so many of these children are
16 experience gastrointestinal problems. And what
17 approach does a panel of leading gastroenterologists
18 recommend, be taken to assess and evaluate these
19 patients. And between October and I think January or
20 February, the statement went back and forth amongst
21 the various authors and eventually the consensus
22 statement was published on the Autism Speaks website
23 and it's available. We would be happy to distribute
24 it to the Court. And it essentially advocates the
25 exact work-up that I have just described to you:

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1 careful history; careful physical exam; you can treat
2 empirically for minor problems; constipation, treat it
3 the way you normally would treat constipation; a
4 little diarrhea, you can try giving some motility
5 drugs temporarily; rule out other causes, other
6 potential causes of these symptoms in these children.

7 But after you have done that, if all those
8 tests are negative and you've done empiric short-term
9 therapy for irritable bowel syndrome and for
10 constipation, and despite all of those things, the
11 problem still persists, then the next step is to look
12 specifically for inflammatory changes of the colon.
13 So, that's becoming more of a consensus opinion. I'm
14 happy to say that.

15 Q Now, Doctor, you mentioned that that meeting
16 took place in Boston in October of 2006?

17 A Correct.

18 Q And was there a sponsoring organization?

19 A Autism Speaks.

20 MS. CHIN-CAPLAN: Special Master?

21 (Pause.)

22 BY MS. CHIN-CAPLAN:

23 Q Doctor, I am going to ask you to read along
24 with me, please. Is this the letterhead of Autism
25 Speaks?

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1 A Correct, it is.

2 Q And, Doctor, is the title of this document,
3 Autism Speaks Hosts Gastroenterology Workshop?

4 A Yes, it is.

5 Q And, Doctor, underneath this, does it say,
6 'responding to community interests, Autism Speaks
7 hosted a workshop on autism and gastroenterology in
8 Boston on October 13, 2006. The object of the
9 workshop were to: (1) review current scientific
10 evidence for GI issues associated with autism; (2)
11 develop consensus scientific priorities for autism
12 gastroenterology research; and (3) suggest an approach
13 to establish best clinical practices for autism
14 gastroenterology.' Have I read that correctly?

15 A Verbatim.

16 Q 'In an effort to capture all perspectives on
17 this topic, participants included members of the
18 Autism Speaks Scientific Affairs Committee and leading
19 experts on pediatric gastroenterology and autism. The
20 discussion was comprehensive and productive. Please
21 watch this space for a synopsis of the consensus
22 recommendation.' Have I read that correctly?

23 A Yes.

24 Q And, Doctor, underneath it, it listed the
25 participants in this gastroenterology workshop, didn't

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1 it?

2 A It did.

3 Q And, Doctor, was Dr. Paul Ashwood of the
4 University of California Davis Mind Institute present?

5 A Yes, he was.

6 Q Dr. Federico Balzola, Hospital Mullinet from
7 Torino, Italy?

8 A Correct, he was.

9 Q Dr. Margaret Bauman, the Latters Clinic from
10 Boston?

11 A Correct.

12 SPECIAL MASTER HASTINGS: Ms. Chin-Caplan,
13 should we -- rather than read the list, can we just
14 make this Petitioner's Trial Exhibit 5? I mean,
15 you're going to read this whole list of --

16 MS. CHIN-CAPLAN: I thought that this was a
17 consensus meetings of experts within the field --

18 SPECIAL MASTER HASTINGS: Okay.

19 MS. CHIN-CAPLAN: -- and these were the
20 people, who participated.

21 SPECIAL MASTER HASTINGS: All right.

22 MS. CHIN-CAPLAN: So, it thought we should
23 be comprehensive on this.

24 SPECIAL MASTER HASTINGS: Well, what I am
25 saying is can we get this into the record just by

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1 making it a trial exhibit?

2 MS. CHIN-CAPLAN: Oh, certainly, certainly.

3 SPECIAL MASTER HASTINGS: Yes.

4 MS. CHIN-CAPLAN: I'm sorry. I

5 misunderstood you.

6 SPECIAL MASTER HASTINGS: Trial Exhibit 5.

7 MS. CHIN-CAPLAN: Would this be Krigsman --

8 SPECIAL MASTER HASTINGS: Well, no, no, no.

9 MS. CHIN-CAPLAN: No?

10 SPECIAL MASTER HASTINGS: You were

11 mentioning as to the other ones Krigsman. Let's call

12 Petitioners' Trial Exhibit 1, 2, 3, 4, and now No. 5.

13 (The document referred to was

14 marked for identification as

15 Petitioners' Trial Exhibit

16 No. 5 and was received in

17 evidence.)

18 MS. CHIN-CAPLAN: Okay.

19 SPECIAL MASTER HASTINGS: So, I was just

20 saying, this list speaks for itself. It gives the

21 names you're reading off and who they're from. So, go

22 ahead.

23 MS. CHIN-CAPLAN: Thank you, Special Master.

24 BY MS. CHIN-CAPLAN:

25 Q Dr. Timothy Buie, Massachusetts General

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1 Hospital for Children, Boston; Dr. David Burnham,
2 PediaMed Pharmaceuticals, Florence, Kentucky; Dr. Stan
3 Cohen, Emory College, Atlanta, Georgia; Dr. Andrew
4 Conrad, National Genetics Institute, Los Angeles,
5 California; Dr. Anil -- is that it -- Darbari, Kennedy
6 Krieger Institute, Baltimore, Maryland; Dr. Gary
7 Goldstein, Kennedy Krieger Institute, Baltimore,
8 Maryland; Dr. Susan Hyman, University of Rochester
9 Medical Center, Rochester, New York; Dr. Arthur
10 Krigsman -- that's you, okay?

11 A That's me.

12 Q Dr. Alan M. Leichtner, Children's Hospital,
13 Boston; Dr. Elizabeth Mumper, Advocates for Children,
14 Lynchburg, Virginia; Dr. Leonard Rappaport, Children's
15 Hospital, Boston; Dr. Ann Reynolds, University of
16 Colorado, Denver, the Children's Hospital; Dr. Mark
17 Roithmayr, Autism Speaks, New York; Dr. Andy Shih,
18 Autism Speaks, New York; Dr. Andrew Wakefield,
19 Thoughtful House for Children, Austin, Texas; Dr.
20 Allan Walker, Massachusetts General Hospital, Boston.
21 Have I read the list, Doctor?

22 A Yes.

23 Q And, Doctor, this indicates that there was
24 going to be a consensus recommendation, is that true?

25 A That's correct.

KRIGSMAN - REDIRECT

1 Q And was that consensus recommendation
2 issued?

3 A Yes, it was and it was available on their
4 website. More importantly, it was mailed to all the
5 pediatricians that are members of the American Academy
6 Pediatrics.

7 MS. CHIN-CAPLAN: Should we mark this as
8 Petitioner's Exhibit ---

9 SPECIAL MASTER HASTINGS: Trial Exhibit No.
10 6.

11 (The document referred to was
12 marked for identification as
13 Petitioners' Trial Exhibit
14 No. 6 and was received in
15 evidence.)

16 BY MS. CHIN-CAPLAN:

17 Q Doctor, I am not going to go through this.
18 This is quite a lengthy document. It's seven pages
19 long, am I correct?

20 A Correct.

21 Q And since you were the participant there,
22 did you review the subsequent drafts?

23 A Subsequent drafts, yes. Yes, they were
24 passed around as they evolved.

25 Q And did you review the finalized version?

KRIGSMAN - REDIRECT

1 A Yes, I did.

2 Q And it's a 'Dear Doctor' letter, is that it?

3 A Correct.

4 Q And what is your understanding of its
5 distribution?

6 A I'm sorry?

7 Q What is your understanding of its
8 distribution?

9 A As I mentioned, it was mailed out to all
10 pediatricians, actually all members, all members of
11 the American Academy of Pediatrics.

12 Q And Doctor, since you have reviewed the
13 final version of this, could you just summarize to the
14 Court what is contained within this Dear Doctor
15 letter?

16 A Well, basically, it's a recommended approach
17 to children, who have gastrointestinal symptoms, and
18 it describes -- the introduction goes through some of
19 the published data that suggests the very frequencies
20 with which GI symptoms are found. The second page
21 goes through the pertinent components of the history
22 that the panel felt was most -- would be most
23 suggestive or most likely to make any sort of a
24 diagnosis, not just colitis, but as far as reflux and
25 constipation. These children -- make no mistake, I'm

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KRIGSMAN - REDIRECT

1 not saying that every child with autism and GI
2 symptoms has enterocolitis. That's not -- that should
3 not be the way you are interpreting what I am saying
4 today.

5 Children with autism have a whole gamut of
6 gastrointestinal diagnoses, including enterocolitis,
7 and the main import of this meeting was to emphasize
8 that there are symptoms, which may be not like
9 symptoms that we're used to seeing in children,
10 because of their communicative disorders need to be
11 taken seriously. So, what questions need to be asked?
12 What labs need to be drawn? What, if any, x-rays need
13 to be done? What specific work-up should be done
14 depending on the symptom presentation and three main
15 symptoms are diarrhea, constipation, and bloating?
16 What parts of the history would suggest that in a
17 child with ASD? What part of the physical examination
18 would be most pertinent to pursue depending on the
19 symptom? And recommendations for empiric treating,
20 brief empiric treatments are made, recommendations are
21 made when to refer to a pediatric gastroenterologist.
22 And there was a clear statement that endoscopy and
23 colonoscopy may be indicated to make the diagnosis of
24 a variety of different disease, among them the colitis
25 that has been published and described in these

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1 patients.

2 Q And, Doctor, this statement was the basis --
3 was a consensus statement of the individuals, who were
4 present in this meeting?

5 A That's correct.

6 MS. CHIN-CAPLAN: Thank you. I have no
7 further questions.

8 SPECIAL MASTER HASTINGS: Any more questions
9 for this witness?

10 MS. RICCIARDELLA: No, sir.

11 SPECIAL MASTER HASTINGS: All right. Before
12 we break, let's do one more housekeeping task. There
13 were two of the documents that were used in cross-
14 examination of Dr. Krigsman. Well, a number of them,
15 most of them had already been filed. There were two
16 documents, one was a page or two from the Thoughtful
17 House website. The second was the licensure for the
18 Texas, the minutes of that. Should we make those two
19 as Respondent's Trial Exhibits 1 and 2, to put them in
20 the record, since he discussed them today?

21 MR. MATANOSKI: I will leave that to your
22 discretion, sir.

23 SPECIAL MASTER HASTINGS: Okay.

24 MR. MATANOSKI: What were you planning on
25 doing on cross-examination, if we did have documents,

KRIGSMAN - REDIRECT

1 as we asked the questions first and depending on the
2 answers, if we have to go to such documents to further
3 elucidate the information that's necessary for the
4 Court to consider? If you would like us to file
5 those as trial exhibits, we would be happy to.

6 SPECIAL MASTER HASTINGS: Any objection to
7 that?

8 MS. CHIN-CAPLAN: No.

9 SPECIAL MASTER HASTINGS: Why don't you do
10 that ---

11 MR. MATANOSKI: Yes, sir.

12 SPECIAL MASTER HASTINGS: -- since we
13 discussed them and we can see the whole document.
14 These all can be filed after the trial, but if you
15 keep a list of them, and mark those number one and
16 number two, then, for the Respondent.

17 (The documents previously
18 referred to were marked for
19 identification as Trial
20 Exhibit Respondent's Exhibit
21 No. 1 and 2 and were received
22 in evidence.)

23 SPECIAL MASTER HASTINGS: Anything else that
24 we should -- anything?

25 SPECIAL MASTER CAMPBELL SMITH: I just have

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1 one more.

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1 BY MS. CHIN-CAPLAN:

2 Q Dr. Krigsman, what percentage of the
3 patients that you currently see are non-autistic?

4 A Very few.

5 SPECIAL MASTER CAMPBELL SMITH: Thank you.

6 SPECIAL MASTER HASTINGS: All right.

7 Anything else we should take care of today before we
8 break?

9 MS. CHIN-CAPLAN: Not from Petitioners.

10 SPECIAL MASTER HASTINGS: Okay.

11 MR. MATANOSKI: Nor Respondent.

12 SPECIAL MASTER HASTINGS: All right. And
13 for the benefit of anyone listening out there, I
14 understand that the order of business tomorrow, we'll
15 hear from Dr. Hepner and Dr. Kennedy tomorrow for the
16 Petitioners.

17 MS. CHIN-CAPLAN: That's correct.

18 SPECIAL MASTER HASTINGS: All right. With
19 that, we are adjourned for the day. Thank you all.

20 (Whereupon, at 5:27 p.m., the hearing was
21 recessed, to reconvene on Wednesday, June 13, 2007, at
22 9:00 a.m.)

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REPORTER'S CERTIFICATE

DOCKET NO.: 98-916V
CASE TITLE: Cedillo v. Sec., HHS
HEARING DATE: June 12, 2007
LOCATION: Washington, D.C.

I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the United States Court of Federal Claims.

Date: June 12, 2007

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