

WEBVTT

NOTE duration:"00:55:59.5730000"

NOTE language:en-us

NOTE Confidence: 0.8482662

00:00:00.000 --> 00:00:02.478 Thank you Andreas for that lovely

NOTE Confidence: 0.8482662

00:00:02.478 --> 00:00:04.560 introduction to the introduction and

NOTE Confidence: 0.8482662

00:00:04.560 --> 00:00:06.756 for inviting me to introduce Michael.

NOTE Confidence: 0.8482662

00:00:06.760 --> 00:00:08.545 It's actually very special 'cause

NOTE Confidence: 0.8482662

00:00:08.545 --> 00:00:11.439 Michael's given me a lot of introductions,

NOTE Confidence: 0.8482662

00:00:11.440 --> 00:00:14.328 and so it's cool that I'm getting to

NOTE Confidence: 0.8482662

00:00:14.328 --> 00:00:17.290 return the favor for this grand rounds.

NOTE Confidence: 0.8482662

00:00:17.290 --> 00:00:19.782 So I think most of you are

NOTE Confidence: 0.8482662

00:00:19.782 --> 00:00:21.580 probably familiar with Michaels.

NOTE Confidence: 0.8482662

00:00:21.580 --> 00:00:23.746 You know basic baseball stats here

NOTE Confidence: 0.8482662

00:00:23.746 --> 00:00:26.655 that he got his bachelors in biology

NOTE Confidence: 0.8482662

00:00:26.655 --> 00:00:28.503 from University of Pennsylvania

NOTE Confidence: 0.8482662

00:00:28.503 --> 00:00:30.909 and then he came to Yale.

NOTE Confidence: 0.8482662

00:00:30.910 --> 00:00:33.395 So he did his medical training here

NOTE Confidence: 0.8482662

00:00:33.395 --> 00:00:36.229 at Yale and then decided to stick

NOTE Confidence: 0.8482662

00:00:36.229 --> 00:00:38.767 around to join the inaugural class

NOTE Confidence: 0.8482662

00:00:38.845 --> 00:00:41.490 of the Solemate Integrated Program.

NOTE Confidence: 0.8482662

00:00:41.490 --> 00:00:43.386 I had to include this picture,

NOTE Confidence: 0.8482662

00:00:43.390 --> 00:00:45.280 which is one of my favourites.

NOTE Confidence: 0.8482662

00:00:45.280 --> 00:00:47.080 I think Anna Stevens sent this

NOTE Confidence: 0.8482662

00:00:47.080 --> 00:00:49.629 out on a chat program and I just

NOTE Confidence: 0.8482662

00:00:49.629 --> 00:00:51.936 grabbed it right up 'cause I think

NOTE Confidence: 0.8482662

00:00:51.936 --> 00:00:54.440 this is the first four years of the

NOTE Confidence: 0.8482662

00:00:54.440 --> 00:00:56.656 Soul Net program in a very faded,

NOTE Confidence: 0.8482662

00:00:56.660 --> 00:00:57.707 appropriately faded photo.

NOTE Confidence: 0.8482662

00:00:57.707 --> 00:00:59.452 So you can probably recognize

NOTE Confidence: 0.8482662

00:00:59.452 --> 00:01:01.400 a lot of the folks on here.

NOTE Confidence: 0.8482662

00:01:01.400 --> 00:01:03.784 A lot of successful people and a lot

NOTE Confidence: 0.8482662

00:01:03.784 --> 00:01:06.137 of really kind people in this photo,

NOTE Confidence: 0.8482662

00:01:06.140 --> 00:01:09.740 and you can see a sort of self satisfied
NOTE Confidence: 0.8482662

00:01:09.740 --> 00:01:12.388 Michael Block right in the middle.
NOTE Confidence: 0.8482662

00:01:12.390 --> 00:01:14.700 So he finished the program in 2010
NOTE Confidence: 0.8482662

00:01:14.700 --> 00:01:17.628 and along the way got a Masters in
NOTE Confidence: 0.8482662

00:01:17.628 --> 00:01:19.884 Epidemiology which has served him very
NOTE Confidence: 0.8482662

00:01:19.884 --> 00:01:22.476 well and probably is part of the work
NOTE Confidence: 0.8482662

00:01:22.476 --> 00:01:25.626 he's going to present to you today.
NOTE Confidence: 0.8482662

00:01:25.630 --> 00:01:27.905 And after all this time at Yale,
NOTE Confidence: 0.8482662

00:01:27.910 --> 00:01:30.736 he thought I still have more work to do
NOTE Confidence: 0.8482662

00:01:30.736 --> 00:01:33.423 here and so he joined the faculty and
NOTE Confidence: 0.8482662

00:01:33.423 --> 00:01:36.057 has been here for the last 10 years.
NOTE Confidence: 0.8482662

00:01:36.060 --> 00:01:38.405 He's touched a lot of different programs
NOTE Confidence: 0.8482662

00:01:38.405 --> 00:01:40.629 and impacted this center in many ways,
NOTE Confidence: 0.8482662

00:01:40.630 --> 00:01:42.919 but one of them is really transforming
NOTE Confidence: 0.8482662

00:01:42.919 --> 00:01:45.177 his own little corner of the 2nd
NOTE Confidence: 0.8482662

00:01:45.177 --> 00:01:46.989 floor in the Child Study Center

NOTE Confidence: 0.8482662

00:01:47.060 --> 00:01:49.100 into the shrine to Mets baseball.

NOTE Confidence: 0.8482662

00:01:49.100 --> 00:01:49.722 You know,

NOTE Confidence: 0.8482662

00:01:49.722 --> 00:01:51.588 I hope someday that the Mets

NOTE Confidence: 0.8482662

00:01:51.588 --> 00:01:53.670 return the favor for his loyalty,

NOTE Confidence: 0.8482662

00:01:53.670 --> 00:01:58.770 but I don't know if this will be the year.

NOTE Confidence: 0.8482662

00:01:58.770 --> 00:02:01.245 And this is the part where I think you

NOTE Confidence: 0.8482662

00:02:01.245 --> 00:02:04.053 know we highlight some of the wonderful

NOTE Confidence: 0.8482662

00:02:04.053 --> 00:02:06.402 accomplishments and it's hard to do

NOTE Confidence: 0.8482662

00:02:06.402 --> 00:02:08.642 because Michael has done so very many

NOTE Confidence: 0.8482662

00:02:08.642 --> 00:02:10.670 things at the Child study center.

NOTE Confidence: 0.8482662

00:02:10.670 --> 00:02:13.022 So he's the Co director of the Tick

NOTE Confidence: 0.8482662

00:02:13.022 --> 00:02:15.767 in OC D program with Tom Fernandez.

NOTE Confidence: 0.8482662

00:02:15.770 --> 00:02:18.661 He's my Co director with the pediatric

NOTE Confidence: 0.8482662

00:02:18.661 --> 00:02:19.900 treatment Resistant Depression

NOTE Confidence: 0.8482662

00:02:19.963 --> 00:02:22.175 program that we started in late 2019.

NOTE Confidence: 0.8482662

00:02:22.180 --> 00:02:23.980 He's the Co director of the
NOTE Confidence: 0.8482662

00:02:23.980 --> 00:02:25.740 T32 program with Mike Crowley.
NOTE Confidence: 0.8482662

00:02:25.740 --> 00:02:28.196 You can see he's a Co director of
NOTE Confidence: 0.8482662

00:02:28.196 --> 00:02:30.273 many things which I think highlights
NOTE Confidence: 0.8482662

00:02:30.273 --> 00:02:32.841 how well he works with the faculty
NOTE Confidence: 0.8482662

00:02:32.841 --> 00:02:34.477 and the trainees here.
NOTE Confidence: 0.8482662

00:02:34.480 --> 00:02:35.955 He's also the associate director
NOTE Confidence: 0.8482662

00:02:35.955 --> 00:02:37.920 of the Albert J Solnit program,
NOTE Confidence: 0.8482662

00:02:37.920 --> 00:02:39.948 so really coming full circle from
NOTE Confidence: 0.8482662

00:02:39.948 --> 00:02:42.410 being a member of the first class
NOTE Confidence: 0.8482662

00:02:42.410 --> 00:02:44.150 to now shaping the future.
NOTE Confidence: 0.8482662

00:02:44.150 --> 00:02:46.268 He was also the inpatient Chiefs
NOTE Confidence: 0.8482662

00:02:46.268 --> 00:02:47.680 of the Clinical Neuroscience
NOTE Confidence: 0.8482662

00:02:47.739 --> 00:02:49.359 Research Unit up until 2018,
NOTE Confidence: 0.8482662

00:02:49.360 --> 00:02:51.670 so you can see these are very
NOTE Confidence: 0.8482662

00:02:51.670 --> 00:02:53.086 prestigious programs both within

NOTE Confidence: 0.8482662

00:02:53.086 --> 00:02:55.246 and outside the Child Study Center,

NOTE Confidence: 0.8482662

00:02:55.250 --> 00:02:58.204 and I think it's not a coincidence

NOTE Confidence: 0.8482662

00:02:58.204 --> 00:02:59.470 that Michael's fingerprints

NOTE Confidence: 0.878571

00:02:59.540 --> 00:03:01.622 are on these programs and that

NOTE Confidence: 0.878571

00:03:01.622 --> 00:03:03.830 they've been so very successful.

NOTE Confidence: 0.878571

00:03:03.830 --> 00:03:05.780 Of course, what we're talking about

NOTE Confidence: 0.878571

00:03:05.780 --> 00:03:08.108 here today is some of his research,

NOTE Confidence: 0.878571

00:03:08.110 --> 00:03:09.750 and he's been very impactful

NOTE Confidence: 0.878571

00:03:09.750 --> 00:03:11.062 with his clinical trial.

NOTE Confidence: 0.878571

00:03:11.070 --> 00:03:12.258 An meta analytic work,

NOTE Confidence: 0.878571

00:03:12.258 --> 00:03:14.426 I think he's one of the only

NOTE Confidence: 0.878571

00:03:14.426 --> 00:03:16.954 speakers where I had to ask him what

NOTE Confidence: 0.878571

00:03:16.954 --> 00:03:18.959 exactly are you presenting today?

NOTE Confidence: 0.878571

00:03:18.960 --> 00:03:21.172 I mean, most people I know what

NOTE Confidence: 0.878571

00:03:21.172 --> 00:03:22.910 they're going to talk about,

NOTE Confidence: 0.878571

00:03:22.910 --> 00:03:25.534 but he's an expert in so many areas.
NOTE Confidence: 0.878571

00:03:25.540 --> 00:03:26.860 Publishing really important work
NOTE Confidence: 0.878571

00:03:26.860 --> 00:03:28.176 and depression, anxiety, OCD,
NOTE Confidence: 0.878571

00:03:28.176 --> 00:03:29.160 trichotillomania tic disorders,
NOTE Confidence: 0.878571

00:03:29.160 --> 00:03:32.112 80 HD and then not only in child psychiatry,
NOTE Confidence: 0.878571

00:03:32.120 --> 00:03:35.048 but also publishing across the lifespan.
NOTE Confidence: 0.878571

00:03:35.050 --> 00:03:37.168 I think it's hard to overstate
NOTE Confidence: 0.878571

00:03:37.168 --> 00:03:39.250 how important his work has been,
NOTE Confidence: 0.878571

00:03:39.250 --> 00:03:41.000 not just to child psychiatry,
NOTE Confidence: 0.878571

00:03:41.000 --> 00:03:42.750 but to psychiatry at large.
NOTE Confidence: 0.878571

00:03:42.750 --> 00:03:44.850 If you like to put numbers
NOTE Confidence: 0.878571

00:03:44.850 --> 00:03:46.250 to stuff like this,
NOTE Confidence: 0.878571

00:03:46.250 --> 00:03:48.350 he's got an h-index of 62.
NOTE Confidence: 0.878571

00:03:48.350 --> 00:03:50.506 This is a graph looking at the
NOTE Confidence: 0.878571

00:03:50.506 --> 00:03:52.286 h-index of Nobel Prize winners
NOTE Confidence: 0.878571

00:03:52.286 --> 00:03:54.644 after they've won the Nobel Prize,

NOTE Confidence: 0.878571

00:03:54.650 --> 00:03:56.827 so presumably have done some very impactful

NOTE Confidence: 0.878571

00:03:56.827 --> 00:03:58.849 work that's been widely disseminated,

NOTE Confidence: 0.878571

00:03:58.850 --> 00:04:01.650 and you can see each index of 62.

NOTE Confidence: 0.878571

00:04:01.650 --> 00:04:04.138 It's pretty darn good.

NOTE Confidence: 0.878571

00:04:04.140 --> 00:04:05.950 Very influential in the field.

NOTE Confidence: 0.878571

00:04:05.950 --> 00:04:08.122 He's on the editorial board of

NOTE Confidence: 0.878571

00:04:08.122 --> 00:04:09.570 all these important journals,

NOTE Confidence: 0.878571

00:04:09.570 --> 00:04:12.711 so I think it's fair to say that he's

NOTE Confidence: 0.878571

00:04:12.711 --> 00:04:15.016 really a modern Renaissance person

NOTE Confidence: 0.878571

00:04:15.016 --> 00:04:17.824 here at the Child Study Center.

NOTE Confidence: 0.878571

00:04:17.830 --> 00:04:18.464 And finally,

NOTE Confidence: 0.878571

00:04:18.464 --> 00:04:20.366 you might worry that having you

NOTE Confidence: 0.878571

00:04:20.366 --> 00:04:22.328 know all of these titles and

NOTE Confidence: 0.878571

00:04:22.328 --> 00:04:24.230 doing all of this important work,

NOTE Confidence: 0.878571

00:04:24.230 --> 00:04:26.156 you know that that might go

NOTE Confidence: 0.878571

00:04:26.156 --> 00:04:28.390 to his head that he would be,
NOTE Confidence: 0.878571

00:04:28.390 --> 00:04:29.004 you know,
NOTE Confidence: 0.878571

00:04:29.004 --> 00:04:30.846 not approachable or too busy or
NOTE Confidence: 0.878571

00:04:30.846 --> 00:04:32.549 or any of those things.
NOTE Confidence: 0.878571

00:04:32.550 --> 00:04:35.110 And I think you know my favorite thing.
NOTE Confidence: 0.878571

00:04:35.110 --> 00:04:37.024 Working with Michael both as a
NOTE Confidence: 0.878571

00:04:37.024 --> 00:04:39.486 mentee and now as a partner is just
NOTE Confidence: 0.878571

00:04:39.486 --> 00:04:41.830 how caring he is for his patients.
NOTE Confidence: 0.878571

00:04:41.830 --> 00:04:44.390 And for trainees that they always come first.
NOTE Confidence: 0.878571

00:04:44.390 --> 00:04:45.380 And you know,
NOTE Confidence: 0.878571

00:04:45.380 --> 00:04:47.690 it's nice to publish papers and get.
NOTE Confidence: 0.878571

00:04:47.690 --> 00:04:47.993 Prizes.
NOTE Confidence: 0.878571

00:04:47.993 --> 00:04:49.508 He's got plenty of papers
NOTE Confidence: 0.878571

00:04:49.508 --> 00:04:50.720 and plenty of prizes,
NOTE Confidence: 0.878571

00:04:50.720 --> 00:04:52.701 but I don't think he ever loses
NOTE Confidence: 0.878571

00:04:52.701 --> 00:04:54.530 sight of the fact that the

NOTE Confidence: 0.878571

00:04:54.530 --> 00:04:56.348 purpose of this work is really

NOTE Confidence: 0.878571

00:04:56.348 --> 00:04:58.570 to impact the the kids and the

NOTE Confidence: 0.878571

00:04:58.570 --> 00:05:00.400 families that we see every day.

NOTE Confidence: 0.878571

00:05:00.400 --> 00:05:02.465 So I'm really excited to hear what

NOTE Confidence: 0.878571

00:05:02.465 --> 00:05:04.359 he's going to talk about today,

NOTE Confidence: 0.878571

00:05:04.360 --> 00:05:06.831 which is using meta analysis to guide

NOTE Confidence: 0.878571

00:05:06.831 --> 00:05:09.099 the assessment and treatment of ADHD.

NOTE Confidence: 0.878571

00:05:09.100 --> 00:05:09.860 Go Michael.

NOTE Confidence: 0.87167853

00:05:13.530 --> 00:05:14.638 Unmute myself, thank you

NOTE Confidence: 0.87167853

00:05:14.638 --> 00:05:15.746 for the kind introduction.

NOTE Confidence: 0.87167853

00:05:15.750 --> 00:05:17.696 I'm gonna do my own introduction of

NOTE Confidence: 0.87167853

00:05:17.696 --> 00:05:19.918 myself and I may need to borrow your

NOTE Confidence: 0.87167853

00:05:19.920 --> 00:05:21.588 slides for my introduction next time,

NOTE Confidence: 0.87167853

00:05:21.590 --> 00:05:23.324 'cause I think you did a

NOTE Confidence: 0.87167853

00:05:23.324 --> 00:05:24.929 better job then I'll do it.

NOTE Confidence: 0.87167853

00:05:24.930 --> 00:05:30.070 I'm introducing myself. I guess.
NOTE Confidence: 0.87167853

00:05:30.070 --> 00:05:33.192 First thing to say is I need to get the.
NOTE Confidence: 0.87167853

00:05:33.192 --> 00:05:36.060 Sorry, let's get it working OK.
NOTE Confidence: 0.85240835

00:05:39.660 --> 00:05:43.368 OK, can people see the slides?
NOTE Confidence: 0.85240835

00:05:43.370 --> 00:05:44.472 Someone says not yet,
NOTE Confidence: 0.85240835

00:05:44.472 --> 00:05:46.131 but while you do that, Michael,
NOTE Confidence: 0.85240835

00:05:46.131 --> 00:05:50.267 I just want to add one word to
NOTE Confidence: 0.87949556

00:05:48.340 --> 00:05:49.168 the introduction of
NOTE Confidence: 0.87949556

00:05:49.170 --> 00:05:50.270 the introduction and that
NOTE Confidence: 0.87949556

00:05:50.270 --> 00:05:53.429 is that your partner in crime is part of.
NOTE Confidence: 0.87949556

00:05:53.430 --> 00:05:56.265 He's certainly worth giving a thumbs up,
NOTE Confidence: 0.87949556

00:05:56.270 --> 00:05:59.100 so Angie in the House so anyway.
NOTE Confidence: 0.87949556

00:05:59.100 --> 00:06:02.750 Back to you Michael, can you see the slides?
NOTE Confidence: 0.87949556

00:06:02.750 --> 00:06:05.936 Yep OK good OK let me.
NOTE Confidence: 0.87949556

00:06:05.940 --> 00:06:09.100 OK, so yes, the first thing we get through
NOTE Confidence: 0.87949556

00:06:09.100 --> 00:06:12.308 his disclosures and we run a bunch of

NOTE Confidence: 0.87949556

00:06:12.308 --> 00:06:15.890 clinical trials that are partially funded by.

NOTE Confidence: 0.87949556

00:06:15.890 --> 00:06:18.718 Industry, none of these really involve ADHD.

NOTE Confidence: 0.87949556

00:06:18.720 --> 00:06:20.735 I haven't really done any

NOTE Confidence: 0.87949556

00:06:20.735 --> 00:06:22.347 clinical trials in ADHD,

NOTE Confidence: 0.87949556

00:06:22.350 --> 00:06:25.402 so I don't think any of the

NOTE Confidence: 0.87949556

00:06:25.402 --> 00:06:27.520 particular disclosures are relevant.

NOTE Confidence: 0.87949556

00:06:27.520 --> 00:06:29.879 I think Jenny gave a really good

NOTE Confidence: 0.87949556

00:06:29.879 --> 00:06:31.777 kind of introduction on what I do.

NOTE Confidence: 0.87949556

00:06:31.780 --> 00:06:33.764 I think the first thing to say is

NOTE Confidence: 0.87949556

00:06:33.764 --> 00:06:35.719 what I do with the Child study

NOTE Confidence: 0.87949556

00:06:35.719 --> 00:06:38.294 Center is that I have a fairly busy

NOTE Confidence: 0.87949556

00:06:38.294 --> 00:06:40.154 outpatient practice and all the

NOTE Confidence: 0.87949556

00:06:40.154 --> 00:06:42.440 disorders that you talked about earlier

NOTE Confidence: 0.87949556

00:06:42.440 --> 00:06:45.370 in the in the Child study Center.

NOTE Confidence: 0.87949556

00:06:45.370 --> 00:06:47.750 I involved in the only training

NOTE Confidence: 0.87949556

00:06:47.750 --> 00:06:50.333 program in the T 32 and then just run
NOTE Confidence: 0.87949556

00:06:50.333 --> 00:06:52.987 a lab involved in clinical trials
NOTE Confidence: 0.87949556

00:06:52.987 --> 00:06:55.778 and meta analysis research and all
NOTE Confidence: 0.87949556

00:06:55.778 --> 00:06:58.346 these things really intersect in both
NOTE Confidence: 0.87949556

00:06:58.346 --> 00:07:00.737 the research and care of patients,
NOTE Confidence: 0.87949556

00:07:00.737 --> 00:07:03.772 and I guess the real thing I want
NOTE Confidence: 0.87949556

00:07:03.772 --> 00:07:06.355 people to get out of this lecture
NOTE Confidence: 0.87949556

00:07:06.355 --> 00:07:08.907 more so than any particulars about
NOTE Confidence: 0.87949556

00:07:08.907 --> 00:07:11.903 80 HD pharmacology or 80 HD treatment
NOTE Confidence: 0.87949556

00:07:11.903 --> 00:07:14.261 is just that the experiences with
NOTE Confidence: 0.87949556

00:07:14.261 --> 00:07:16.360 the patients and the trainees.
NOTE Confidence: 0.87949556

00:07:16.360 --> 00:07:18.360 Really affects the research and
NOTE Confidence: 0.87949556

00:07:18.360 --> 00:07:20.781 then the research also affects the
NOTE Confidence: 0.87949556

00:07:20.781 --> 00:07:22.911 care of the patients and hopefully
NOTE Confidence: 0.87949556

00:07:22.911 --> 00:07:24.985 the education of the trainees and
NOTE Confidence: 0.87949556

00:07:24.985 --> 00:07:26.875 that it's sort of a circle.

NOTE Confidence: 0.87949556

00:07:26.880 --> 00:07:29.499 I guess I would also say that I'm a

NOTE Confidence: 0.87949556

00:07:29.499 --> 00:07:32.189 father of three kids and and I picked up

NOTE Confidence: 0.87949556

00:07:32.189 --> 00:07:35.195 two dogs in the family during the pandemic,

NOTE Confidence: 0.87949556

00:07:35.200 --> 00:07:37.592 so I apologize if they make any noise

NOTE Confidence: 0.87949556

00:07:37.592 --> 00:07:40.635 and I I guess I also should think Angie,

NOTE Confidence: 0.87949556

00:07:40.640 --> 00:07:43.088 for if it's quiet you should think energy

NOTE Confidence: 0.87949556

00:07:43.088 --> 00:07:45.119 could she'll be responsible for that,

NOTE Confidence: 0.87949556

00:07:45.120 --> 00:07:47.380 will hope it continues along.

NOTE Confidence: 0.87949556

00:07:47.380 --> 00:07:47.740 And

NOTE Confidence: 0.8672717

00:07:47.740 --> 00:07:49.585 then just again, the main

NOTE Confidence: 0.8672717

00:07:49.585 --> 00:07:51.660 purpose of this talk is to

NOTE Confidence: 0.8672717

00:07:51.660 --> 00:07:53.742 discuss that utility of clinical research

NOTE Confidence: 0.8672717

00:07:53.742 --> 00:07:55.767 and meta analysis and improving the

NOTE Confidence: 0.8672717

00:07:55.767 --> 00:07:58.063 care of patients and then also to just

NOTE Confidence: 0.8672717

00:07:58.119 --> 00:08:00.244 demonstrate how clinical exposure and

NOTE Confidence: 0.8672717

00:08:00.244 --> 00:08:02.369 teaching actually informs the research.
NOTE Confidence: 0.8672717

00:08:02.370 --> 00:08:05.765 And I'll be talking through that today.
NOTE Confidence: 0.8672717

00:08:05.770 --> 00:08:07.078 Really, where we're going?
NOTE Confidence: 0.8672717

00:08:07.078 --> 00:08:09.372 I guess there are three main points
NOTE Confidence: 0.8672717

00:08:09.372 --> 00:08:11.829 and I'm going to kind of have 3A2 cases
NOTE Confidence: 0.8672717

00:08:11.893 --> 00:08:14.065 that involve really three aspects of
NOTE Confidence: 0.8672717

00:08:14.065 --> 00:08:16.309 research that we've done in the lab.
NOTE Confidence: 0.8672717

00:08:16.309 --> 00:08:18.630 The block lab over the last few years
NOTE Confidence: 0.8672717

00:08:18.630 --> 00:08:20.720 really to demonstrate three things.
NOTE Confidence: 0.8672717

00:08:20.720 --> 00:08:22.715 The first one I want to demonstrate
NOTE Confidence: 0.8672717

00:08:22.715 --> 00:08:25.271 to people is that your risk of being
NOTE Confidence: 0.8672717

00:08:25.271 --> 00:08:27.335 diagnosed and treated with 80HD is
NOTE Confidence: 0.8672717

00:08:27.335 --> 00:08:29.170 related to your astrological form.
NOTE Confidence: 0.8672717

00:08:29.170 --> 00:08:31.120 That's the first thing I intend
NOTE Confidence: 0.8672717

00:08:31.120 --> 00:08:32.420 to prove to people.
NOTE Confidence: 0.8672717

00:08:32.420 --> 00:08:35.498 The second one is just to talk about common.

NOTE Confidence: 0.8672717

00:08:35.500 --> 00:08:37.415 Understanding of the treatments of

NOTE Confidence: 0.8672717

00:08:37.415 --> 00:08:39.724 the efficacy of common treatments for

NOTE Confidence: 0.8672717

00:08:39.724 --> 00:08:42.048 ADHD and also examine the effects of

NOTE Confidence: 0.8672717

00:08:42.048 --> 00:08:43.486 particularly doses of psychostimulants

NOTE Confidence: 0.8672717

00:08:43.486 --> 00:08:45.616 on the efficacy of medications for

NOTE Confidence: 0.8672717

00:08:45.616 --> 00:08:48.130 ADHD and the last thing I really want

NOTE Confidence: 0.8672717

00:08:48.130 --> 00:08:50.821 to talk about is just the important of

NOTE Confidence: 0.8672717

00:08:50.821 --> 00:08:53.843 race and racism and racial bias in the

NOTE Confidence: 0.8672717

00:08:53.843 --> 00:08:56.327 treatment of ADHD and other psychiatric

NOTE Confidence: 0.8672717

00:08:56.327 --> 00:08:58.712 conditions that we've also been doing.

NOTE Confidence: 0.8672717

00:08:58.712 --> 00:09:01.040 Research in the training program in

NOTE Confidence: 0.8672717

00:09:01.113 --> 00:09:03.521 the lab on this and I think doing

NOTE Confidence: 0.8672717

00:09:03.521 --> 00:09:05.669 an evidence based presentation on.

NOTE Confidence: 0.8672717

00:09:05.670 --> 00:09:08.088 80 HD ADHD pharmacology and and

NOTE Confidence: 0.8672717

00:09:08.088 --> 00:09:10.360 trying to psychiatry in general.

NOTE Confidence: 0.8672717

00:09:10.360 --> 00:09:12.485 It's also important to highlight
NOTE Confidence: 0.8672717

00:09:12.485 --> 00:09:13.335 these findings.
NOTE Confidence: 0.8807501

00:09:14.700 --> 00:09:16.444 So the first part of this
NOTE Confidence: 0.8807501

00:09:16.444 --> 00:09:17.900 talk will just be about.
NOTE Confidence: 0.86678773

00:09:19.960 --> 00:09:22.868 The risk of ADHD and its Association with
NOTE Confidence: 0.86678773

00:09:22.870 --> 00:09:25.996 birth date and this is research
NOTE Confidence: 0.86678773

00:09:25.996 --> 00:09:29.289 that's done primarily by a couple of.
NOTE Confidence: 0.86678773

00:09:29.290 --> 00:09:31.850 Trainees in lab. Jose Flores, who's now
NOTE Confidence: 0.86678773

00:09:31.850 --> 00:09:34.405 in his addiction fellowship here at Yale,
NOTE Confidence: 0.86678773

00:09:34.410 --> 00:09:36.606 soon hopefully to be involved in
NOTE Confidence: 0.86678773

00:09:36.606 --> 00:09:38.070 a child Psychiatry fellowship.
NOTE Confidence: 0.86678773

00:09:38.070 --> 00:09:39.840 And Victor, who's visiting scholar
NOTE Confidence: 0.86678773

00:09:39.840 --> 00:09:42.100 here in the Child Study Center.
NOTE Confidence: 0.86678773

00:09:42.100 --> 00:09:44.718 Ann, if you're looking at 80 HD
NOTE Confidence: 0.86678773

00:09:44.718 --> 00:09:46.860 as hopefully all of you know,
NOTE Confidence: 0.86678773

00:09:46.860 --> 00:09:49.415 being involved in the Child study center,

NOTE Confidence: 0.86678773

00:09:49.420 --> 00:09:51.210 ADHD is really associated with

NOTE Confidence: 0.86678773

00:09:51.210 --> 00:09:53.000 three core symptoms in extension

NOTE Confidence: 0.86678773

00:09:53.066 --> 00:09:54.534 and then hyperactivity impulsive

NOTE Confidence: 0.86678773

00:09:54.534 --> 00:09:56.369 ITI to get the diagnosis.

NOTE Confidence: 0.86678773

00:09:56.370 --> 00:10:00.110 You have to have an age of onset prior to.

NOTE Confidence: 0.86678773

00:10:00.110 --> 00:10:02.444 Well and you have to have

NOTE Confidence: 0.86678773

00:10:02.444 --> 00:10:04.000 symptoms in multiple settings

NOTE Confidence: 0.86678773

00:10:04.074 --> 00:10:06.408 and it needs to cause impairment.

NOTE Confidence: 0.86678773

00:10:06.410 --> 00:10:09.538 Other things that you may or may not

NOTE Confidence: 0.86678773

00:10:09.538 --> 00:10:12.616 know about 80 HD is that it's if you

NOTE Confidence: 0.86678773

00:10:12.616 --> 00:10:15.479 look at twin and molecular studies,

NOTE Confidence: 0.86678773

00:10:15.480 --> 00:10:17.445 it's as heritable or more

NOTE Confidence: 0.86678773

00:10:17.445 --> 00:10:19.017 heritable than any psyche.

NOTE Confidence: 0.86678773

00:10:19.020 --> 00:10:20.596 And then other psychiatric

NOTE Confidence: 0.86678773

00:10:20.596 --> 00:10:22.566 conditions that are currently around.

NOTE Confidence: 0.86678773

00:10:22.570 --> 00:10:24.540 It's has a similar heritability
NOTE Confidence: 0.86678773

00:10:24.540 --> 00:10:26.510 in twin studies to autism,
NOTE Confidence: 0.86678773

00:10:26.510 --> 00:10:26.903 schizophrenia,
NOTE Confidence: 0.86678773

00:10:26.903 --> 00:10:27.689 bipolar disorder,
NOTE Confidence: 0.86678773

00:10:27.689 --> 00:10:30.462 and in both twin and molecular studies.
NOTE Confidence: 0.86678773

00:10:30.462 --> 00:10:32.934 It has a much greater heritability
NOTE Confidence: 0.86678773

00:10:32.934 --> 00:10:34.560 estimate than things like.
NOTE Confidence: 0.86678773

00:10:34.560 --> 00:10:36.644 Depression and anxiety disorders.
NOTE Confidence: 0.86678773

00:10:36.644 --> 00:10:39.770 It also really has a pretty
NOTE Confidence: 0.86678773

00:10:39.857 --> 00:10:41.479 clear neuroscience.
NOTE Confidence: 0.86678773

00:10:41.480 --> 00:10:44.370 Neural biological mark marker of
NOTE Confidence: 0.86678773

00:10:44.370 --> 00:10:47.324 8080 where it's really delayed
NOTE Confidence: 0.86678773

00:10:47.324 --> 00:10:50.384 development of the prefrontal cortex
NOTE Confidence: 0.86678773

00:10:50.384 --> 00:10:53.072 that's important in modulating
NOTE Confidence: 0.86678773

00:10:53.072 --> 00:10:56.108 cognitive control processes like.
NOTE Confidence: 0.86678773

00:10:56.110 --> 00:10:57.886 Attention and motor planning.

NOTE Confidence: 0.86678773

00:10:57.886 --> 00:11:01.182 So it's a disorder that has clear

NOTE Confidence: 0.86678773

00:11:01.182 --> 00:11:04.458 heritability and also has a clear

NOTE Confidence: 0.86678773

00:11:04.458 --> 00:11:06.800 neurological signal associated with it.

NOTE Confidence: 0.8591748

00:11:09.460 --> 00:11:11.620 I'm now going to convince you

NOTE Confidence: 0.8591748

00:11:11.620 --> 00:11:13.060 that it's associated with

NOTE Confidence: 0.8591748

00:11:13.060 --> 00:11:14.864 astrological sign and birth date,

NOTE Confidence: 0.8591748

00:11:14.864 --> 00:11:17.438 so I'm generally using my kids as

NOTE Confidence: 0.8591748

00:11:17.438 --> 00:11:19.569 examples of these things rather than

NOTE Confidence: 0.8591748

00:11:19.569 --> 00:11:21.514 the patients I'm singing clinic

NOTE Confidence: 0.8591748

00:11:21.514 --> 00:11:23.701 just 'cause it's easier for me

NOTE Confidence: 0.8591748

00:11:23.701 --> 00:11:25.654 to keep track of their names and

NOTE Confidence: 0.8591748

00:11:25.654 --> 00:11:27.817 not commit any HIPAA violations.

NOTE Confidence: 0.8591748

00:11:27.820 --> 00:11:29.785 So this patient I'm actually

NOTE Confidence: 0.8591748

00:11:29.785 --> 00:11:32.429 going to talk about would fit well

NOTE Confidence: 0.8591748

00:11:32.429 --> 00:11:34.468 with one of my sons, Paul,

NOTE Confidence: 0.8591748

00:11:34.468 --> 00:11:38.164 but also is actually very germane to.
NOTE Confidence: 0.8591748

00:11:38.170 --> 00:11:40.624 Patient Amalia was seeing a fairly
NOTE Confidence: 0.8591748

00:11:40.624 --> 00:11:43.266 recently in the clinic that I I
NOTE Confidence: 0.8591748

00:11:43.266 --> 00:11:45.429 took over when she left for Brown.
NOTE Confidence: 0.8591748

00:11:45.430 --> 00:11:48.326 So Paul is in now eight years old.
NOTE Confidence: 0.8591748

00:11:48.330 --> 00:11:49.722 He's in second grade.
NOTE Confidence: 0.8591748

00:11:49.722 --> 00:11:52.626 His plans are to have his own YouTube
NOTE Confidence: 0.8591748

00:11:52.626 --> 00:11:55.586 channel where he's going to be a star.
NOTE Confidence: 0.8591748

00:11:55.590 --> 00:11:57.582 Hasn't quite figured out what he's
NOTE Confidence: 0.8591748

00:11:57.582 --> 00:12:00.309 gonna do on his YouTube channel yet.
NOTE Confidence: 0.8591748

00:12:00.310 --> 00:12:01.285 He likes legos.
NOTE Confidence: 0.8591748

00:12:01.285 --> 00:12:02.910 He likes racing Matchbox cars
NOTE Confidence: 0.8591748

00:12:02.910 --> 00:12:05.029 watching and playing Minecraft videos.
NOTE Confidence: 0.8591748

00:12:05.030 --> 00:12:07.862 He likes cooking that can be really kind
NOTE Confidence: 0.8591748

00:12:07.862 --> 00:12:10.080 of disastrous thing if unsupervised.
NOTE Confidence: 0.8591748

00:12:10.080 --> 00:12:11.680 And he likes unboxing present,

NOTE Confidence: 0.8591748

00:12:11.680 --> 00:12:14.240 so I think if he had his say,

NOTE Confidence: 0.8591748

00:12:14.240 --> 00:12:17.032 and what is YouTube channel would be he

NOTE Confidence: 0.8591748

00:12:17.032 --> 00:12:19.990 would unbox presents that someone gave them.

NOTE Confidence: 0.8591748

00:12:19.990 --> 00:12:23.483 Another thing to say about Sam and

NOTE Confidence: 0.8591748

00:12:23.483 --> 00:12:27.009 Paul is that they're Twins and.

NOTE Confidence: 0.8591748

00:12:27.010 --> 00:12:33.460 And. And they were actually born.

NOTE Confidence: 0.8591748

00:12:33.460 --> 00:12:34.687 December 13th, 2012.

NOTE Confidence: 0.8591748

00:12:34.687 --> 00:12:37.550 And this is actually a picture of

NOTE Confidence: 0.8591748

00:12:37.630 --> 00:12:40.360 when the boys were in Phyllis Bodel,

NOTE Confidence: 0.8591748

00:12:40.360 --> 00:12:42.719 so when they were in kindergarten here

NOTE Confidence: 0.8591748

00:12:42.719 --> 00:12:45.640 and had a wonderful experience here.

NOTE Confidence: 0.8591748

00:12:45.640 --> 00:12:47.715 But Paul's experience in kindergarten

NOTE Confidence: 0.8591748

00:12:47.715 --> 00:12:50.246 at Bodel was at least initially

NOTE Confidence: 0.8591748

00:12:50.246 --> 00:12:52.538 quite rocky for him when he,

NOTE Confidence: 0.8591748

00:12:52.540 --> 00:12:54.976 when he started out kindergarten here,

NOTE Confidence: 0.8591748

00:12:54.980 --> 00:12:58.292 he kind of not really stay on the
NOTE Confidence: 0.8591748

00:12:58.292 --> 00:13:01.979 rug in class and he and he not be
NOTE Confidence: 0.8591748

00:13:01.979 --> 00:13:05.856 happy to go in every day and he said.
NOTE Confidence: 0.8591748

00:13:05.860 --> 00:13:08.121 You know the this is much harder
NOTE Confidence: 0.8591748

00:13:08.121 --> 00:13:10.268 for me than the other kids.
NOTE Confidence: 0.8591748

00:13:10.270 --> 00:13:12.974 The other kids are are smarter than me.
NOTE Confidence: 0.8591748

00:13:12.980 --> 00:13:15.172 They are able to do things I can't
NOTE Confidence: 0.8591748

00:13:15.172 --> 00:13:18.319 and he said this when he was starting
NOTE Confidence: 0.8591748

00:13:18.319 --> 00:13:18.740 kindergarten.
NOTE Confidence: 0.8591748

00:13:18.740 --> 00:13:21.120 Ann and I think this was probably
NOTE Confidence: 0.8591748

00:13:21.120 --> 00:13:22.673 an accurate perception of.
NOTE Confidence: 0.8591748

00:13:22.673 --> 00:13:25.160 So, uh, this initial kindergarten experience.
NOTE Confidence: 0.8591748

00:13:25.160 --> 00:13:28.310 If Odell, that he was behind the other kids.
NOTE Confidence: 0.8576402

00:13:30.340 --> 00:13:33.056 So one important thing to know about
NOTE Confidence: 0.8576402

00:13:33.056 --> 00:13:35.280 kindergarten in school in Connecticut is
NOTE Confidence: 0.8576402

00:13:35.280 --> 00:13:39.038 that it has a January 1st cut off date.

NOTE Confidence: 0.8576402

00:13:39.038 --> 00:13:42.730 So all the kids that are born.

NOTE Confidence: 0.8576402

00:13:42.730 --> 00:13:44.752 Set the cutoff for going into

NOTE Confidence: 0.8576402

00:13:44.752 --> 00:13:47.059 the next rate is January 1st,

NOTE Confidence: 0.8576402

00:13:47.060 --> 00:13:49.590 so we actually did a meta analysis.

NOTE Confidence: 0.8576402

00:13:49.590 --> 00:13:53.319 Looking at whether this sort of.

NOTE Confidence: 0.8576402

00:13:53.320 --> 00:13:54.704 Being behind in kindergarten,

NOTE Confidence: 0.8576402

00:13:54.704 --> 00:13:56.780 I was very interested in how

NOTE Confidence: 0.8576402

00:13:56.841 --> 00:13:58.749 this affected kids academically,

NOTE Confidence: 0.8576402

00:13:58.750 --> 00:14:02.233 'cause I was very interested for my own kids,

NOTE Confidence: 0.8576402

00:14:02.240 --> 00:14:05.350 but also that just the effect was so

NOTE Confidence: 0.8576402

00:14:05.350 --> 00:14:07.835 obviously large in in the Twins lives

NOTE Confidence: 0.8576402

00:14:07.835 --> 00:14:11.168 and so we actually did a meta analysis.

NOTE Confidence: 0.8576402

00:14:11.170 --> 00:14:14.660 Jose, Victor and I and Adam and a bunch

NOTE Confidence: 0.8576402

00:14:14.660 --> 00:14:17.432 of other people looking at 14 studies

NOTE Confidence: 0.8576402

00:14:17.432 --> 00:14:19.970 that looked at the Association between

NOTE Confidence: 0.8576402

00:14:19.970 --> 00:14:23.450 birth date and and diagnosis of 80 HD.
NOTE Confidence: 0.8576402

00:14:23.450 --> 00:14:25.796 The studies involved over 3,000,000 children
NOTE Confidence: 0.8576402

00:14:25.796 --> 00:14:27.360 involving nine different countries,
NOTE Confidence: 0.8576402

00:14:27.360 --> 00:14:30.624 and we stratified the studies based on when
NOTE Confidence: 0.8576402

00:14:30.624 --> 00:14:34.004 the cut off for school was in the area.
NOTE Confidence: 0.8576402

00:14:34.010 --> 00:14:37.232 So this is a graph looking at the
NOTE Confidence: 0.8576402

00:14:37.232 --> 00:14:39.776 odds of being diagnosed or treated
NOTE Confidence: 0.8576402

00:14:39.776 --> 00:14:43.100 for 80 HD as a function of when your
NOTE Confidence: 0.8576402

00:14:43.100 --> 00:14:45.753 birth month was and this was for
NOTE Confidence: 0.8576402

00:14:45.753 --> 00:14:48.454 studies that had a January 1st cut
NOTE Confidence: 0.8576402

00:14:48.454 --> 00:14:51.237 off like Connecticut and you can see
NOTE Confidence: 0.8576402

00:14:51.237 --> 00:14:53.942 that the lowest odds ratio occurs in.
NOTE Confidence: 0.8576402

00:14:53.942 --> 00:14:56.493 For the kids born in January and then
NOTE Confidence: 0.8576402

00:14:56.493 --> 00:14:58.104 there's a fairly steady increase
NOTE Confidence: 0.8576402

00:14:58.104 --> 00:15:00.267 up until the end of the year.
NOTE Confidence: 0.8576402

00:15:00.270 --> 00:15:02.370 And with the largest odds ratio being

NOTE Confidence: 0.8576402

00:15:02.370 --> 00:15:04.479 in October, November and December.

NOTE Confidence: 0.8576402

00:15:04.479 --> 00:15:07.497 If you look separately at schools,

NOTE Confidence: 0.8576402

00:15:07.500 --> 00:15:10.344 that locations which had a September

NOTE Confidence: 0.8576402

00:15:10.344 --> 00:15:14.297 1st cut off for an end of August cut

NOTE Confidence: 0.8576402

00:15:14.297 --> 00:15:17.540 off for for going into kindergarten.

NOTE Confidence: 0.8576402

00:15:17.540 --> 00:15:20.406 You saw a a different relationship

NOTE Confidence: 0.8576402

00:15:20.406 --> 00:15:22.320 with birthday that the

NOTE Confidence: 0.8446563

00:15:22.320 --> 00:15:25.660 highest the highest rate of diagnosis of

NOTE Confidence: 0.8446563

00:15:25.660 --> 00:15:29.010 diagnosis and treatment for ADHD was in

NOTE Confidence: 0.8446563

00:15:29.010 --> 00:15:31.400 July and August and lowest

NOTE Confidence: 0.8446563

00:15:31.400 --> 00:15:34.268 was right after the school cut

NOTE Confidence: 0.8446563

00:15:34.270 --> 00:15:37.900 off in September and October. And

NOTE Confidence: 0.8643382

00:15:37.900 --> 00:15:41.340 if you overlay the two time periods and put

NOTE Confidence: 0.8643382

00:15:41.340 --> 00:15:45.158 the cut off in a common place, you get a

NOTE Confidence: 0.8643382

00:15:45.160 --> 00:15:47.085 fairly similar trends where kids

NOTE Confidence: 0.8643382

00:15:47.085 --> 00:15:49.742 are at much lower risk when they
NOTE Confidence: 0.8643382

00:15:49.742 --> 00:15:51.950 are relatively old for their grade
NOTE Confidence: 0.8643382

00:15:51.950 --> 00:15:54.670 and are at a much higher risk of
NOTE Confidence: 0.8643382

00:15:54.754 --> 00:15:57.385 getting diagnosed for ADHD if they're
NOTE Confidence: 0.8643382

00:15:57.385 --> 00:15:59.673 young for their their school age.
NOTE Confidence: 0.8643382

00:15:59.673 --> 00:16:02.978 And this is in another way of looking
NOTE Confidence: 0.8643382

00:16:02.978 --> 00:16:06.250 at a comparing the odds of being
NOTE Confidence: 0.8643382

00:16:06.250 --> 00:16:08.725 diagnosed or treated for ADHD.
NOTE Confidence: 0.8643382

00:16:08.730 --> 00:16:11.418 In the 120 days before the school
NOTE Confidence: 0.8643382

00:16:11.418 --> 00:16:14.125 cut off versus 120 days after the
NOTE Confidence: 0.8643382

00:16:14.125 --> 00:16:16.832 school cut off and at least your
NOTE Confidence: 0.8643382

00:16:16.832 --> 00:16:19.328 odds of being diagnosed or treated
NOTE Confidence: 0.8643382

00:16:19.328 --> 00:16:21.708 for ADHD was about 40% higher.
NOTE Confidence: 0.8643382

00:16:21.708 --> 00:16:24.930 If you were born right before the school,
NOTE Confidence: 0.8643382

00:16:24.930 --> 00:16:28.346 cut off as opposed to afterwards an you
NOTE Confidence: 0.8643382

00:16:28.346 --> 00:16:31.386 can actually take this data and look

NOTE Confidence: 0.8643382

00:16:31.386 --> 00:16:34.211 at changing when the actual cut off

NOTE Confidence: 0.8643382

00:16:34.211 --> 00:16:37.206 time is and you see that if you only

NOTE Confidence: 0.8643382

00:16:37.206 --> 00:16:40.614 look at the 30 days before and after.

NOTE Confidence: 0.8643382

00:16:40.620 --> 00:16:42.830 So the school cut off.

NOTE Confidence: 0.8643382

00:16:42.830 --> 00:16:46.437 The kids are at about a 50% increased

NOTE Confidence: 0.8643382

00:16:46.437 --> 00:16:50.056 risk of being diagnosed and or treated

NOTE Confidence: 0.8643382

00:16:50.056 --> 00:16:54.166 for ADHD if they are born in the month

NOTE Confidence: 0.8643382

00:16:54.166 --> 00:16:57.389 before the school cut off as opposed

NOTE Confidence: 0.8643382

00:16:57.389 --> 00:17:00.161 to the month after this welcome.

NOTE Confidence: 0.8643382

00:17:00.170 --> 00:17:02.914 So it has a pretty profound effect.

NOTE Confidence: 0.8643382

00:17:02.920 --> 00:17:05.688 Anne Anne this really?

NOTE Confidence: 0.8643382

00:17:05.690 --> 00:17:07.545 Has a really profound implications

NOTE Confidence: 0.8643382

00:17:07.545 --> 00:17:09.400 for a number of things.

NOTE Confidence: 0.8643382

00:17:09.400 --> 00:17:11.619 So the first thing is the bottom

NOTE Confidence: 0.8643382

00:17:11.619 --> 00:17:14.586 line is that the month of birth is

NOTE Confidence: 0.8643382

00:17:14.586 --> 00:17:17.000 strongly associated with the risk of
NOTE Confidence: 0.8643382

00:17:17.000 --> 00:17:19.418 being diagnosed and treated for ADHD.
NOTE Confidence: 0.8643382

00:17:19.420 --> 00:17:21.520 It's related to the school entrance
NOTE Confidence: 0.8643382

00:17:21.520 --> 00:17:23.869 cut off date for the location.
NOTE Confidence: 0.8643382

00:17:23.870 --> 00:17:25.994 It seems like the effect decreases
NOTE Confidence: 0.8643382

00:17:25.994 --> 00:17:28.257 with increasing age and the effect
NOTE Confidence: 0.8643382

00:17:28.257 --> 00:17:29.430 is quite substantial.
NOTE Confidence: 0.8643382

00:17:29.430 --> 00:17:29.831 Really.
NOTE Confidence: 0.8643382

00:17:29.831 --> 00:17:32.237 A 50% increased risk of being
NOTE Confidence: 0.8643382

00:17:32.237 --> 00:17:34.283 born in December in Connecticut
NOTE Confidence: 0.8643382

00:17:34.283 --> 00:17:36.569 as of four supposed to be.
NOTE Confidence: 0.8643382

00:17:36.570 --> 00:17:39.447 Being born in January and this really
NOTE Confidence: 0.8643382

00:17:39.447 --> 00:17:42.050 probably has pretty important impacts,
NOTE Confidence: 0.8643382

00:17:42.050 --> 00:17:44.780 especially for studies in early childhood
NOTE Confidence: 0.8643382

00:17:44.780 --> 00:17:48.226 that look at ADHD risk that it's not
NOTE Confidence: 0.8643382

00:17:48.226 --> 00:17:51.726 only your risk of ADHD compared to your

NOTE Confidence: 0.8643382

00:17:51.726 --> 00:17:53.938 actual Chronicle chronological age,

NOTE Confidence: 0.8643382

00:17:53.940 --> 00:17:56.790 but it's probably equally or more

NOTE Confidence: 0.8643382

00:17:56.790 --> 00:17:59.633 important the your risk of ADHD

NOTE Confidence: 0.8643382

00:17:59.633 --> 00:18:02.615 compared to what your expected age is,

NOTE Confidence: 0.8643382

00:18:02.620 --> 00:18:06.148 what your grade in school is.

NOTE Confidence: 0.8643382

00:18:06.150 --> 00:18:08.106 It also has implications for both

NOTE Confidence: 0.8643382

00:18:08.106 --> 00:18:10.060 public policy in early education.

NOTE Confidence: 0.8643382

00:18:10.060 --> 00:18:11.476 I mean with Paul,

NOTE Confidence: 0.8643382

00:18:11.476 --> 00:18:12.538 he's doing great.

NOTE Confidence: 0.8643382

00:18:12.540 --> 00:18:15.735 He's now eight years old in the second grade,

NOTE Confidence: 0.8643382

00:18:15.740 --> 00:18:17.510 which probably gave away what

NOTE Confidence: 0.8643382

00:18:17.510 --> 00:18:18.926 we did with Paul,

NOTE Confidence: 0.8643382

00:18:18.930 --> 00:18:21.754 which is we had him repeat kid in

NOTE Confidence: 0.8643382

00:18:21.754 --> 00:18:24.259 kindergarten when he went into spring Glen,

NOTE Confidence: 0.8643382

00:18:24.260 --> 00:18:26.390 but but this has a significant

NOTE Confidence: 0.8643382

00:18:26.390 --> 00:18:27.100 financial implications,
NOTE Confidence: 0.8643382

00:18:27.100 --> 00:18:29.128 and we're we're we're quite privileged
NOTE Confidence: 0.8643382

00:18:29.128 --> 00:18:31.284 to have the economic ability to
NOTE Confidence: 0.8643382

00:18:31.284 --> 00:18:33.129 have our kids repeat kindergarten.
NOTE Confidence: 0.8643382

00:18:33.130 --> 00:18:35.776 My estimate when we were doing the
NOTE Confidence: 0.8643382

00:18:35.776 --> 00:18:37.657 finances for making this decision
NOTE Confidence: 0.8643382

00:18:37.657 --> 00:18:40.345 was it was going to cost us about.
NOTE Confidence: 0.8643382

00:18:40.350 --> 00:18:42.695 \$32,000 for the year to hold the
NOTE Confidence: 0.8643382

00:18:42.695 --> 00:18:45.380 Twins back a year in school for the
NOTE Confidence: 0.8643382

00:18:45.380 --> 00:18:47.889 both of them so that most families
NOTE Confidence: 0.8643382

00:18:47.889 --> 00:18:50.787 don't have \$32,000 to spend on this.
NOTE Confidence: 0.8643382

00:18:50.790 --> 00:18:52.812 And I think that really made
NOTE Confidence: 0.8643382

00:18:52.812 --> 00:18:55.110 me think a lot about this.
NOTE Confidence: 0.83198345

00:19:00.070 --> 00:19:02.695 Moving on to the assessment
NOTE Confidence: 0.83198345

00:19:02.695 --> 00:19:04.795 and treatment of ADHD.
NOTE Confidence: 0.83198345

00:19:04.800 --> 00:19:07.688 We're treating kids with ADHD in the clinic.

NOTE Confidence: 0.83198345

00:19:07.690 --> 00:19:10.218 I think the one thing that I really

NOTE Confidence: 0.83198345

00:19:10.218 --> 00:19:12.698 want people to take home is the

NOTE Confidence: 0.83198345

00:19:12.698 --> 00:19:14.962 importance of using rating scales that

NOTE Confidence: 0.83198345

00:19:14.962 --> 00:19:17.440 rating scales given to the caregivers,

NOTE Confidence: 0.83198345

00:19:17.440 --> 00:19:19.690 and the teachers are much more

NOTE Confidence: 0.83198345

00:19:19.690 --> 00:19:21.599 sensitive to change than just

NOTE Confidence: 0.83198345

00:19:21.599 --> 00:19:23.930 sort of asking how kids are doing.

NOTE Confidence: 0.83198345

00:19:23.930 --> 00:19:26.711 And I think people a lot of times in

NOTE Confidence: 0.83198345

00:19:26.711 --> 00:19:29.589 judging improvement in 80 HD don't really

NOTE Confidence: 0.83198345

00:19:29.589 --> 00:19:32.239 recognize how much better kids can get.

NOTE Confidence: 0.83198345

00:19:32.240 --> 00:19:34.767 And it's not just having them be

NOTE Confidence: 0.83198345

00:19:34.767 --> 00:19:36.320 significantly improved, its to.

NOTE Confidence: 0.83198345

00:19:36.320 --> 00:19:37.980 The goal should be.

NOTE Confidence: 0.83198345

00:19:37.980 --> 00:19:40.464 Permission and the nice thing about

NOTE Confidence: 0.83198345

00:19:40.464 --> 00:19:42.974 these rating scales for ADHD is

NOTE Confidence: 0.83198345

00:19:42.974 --> 00:19:44.929 that they are freely available,
NOTE Confidence: 0.83198345

00:19:44.930 --> 00:19:48.010 so I'm I'm a big fan of the ADHD rating
NOTE Confidence: 0.83198345

00:19:48.096 --> 00:19:50.610 scale for which is publicly available
NOTE Confidence: 0.83198345

00:19:50.610 --> 00:19:53.817 on lines and 18 question survey given
NOTE Confidence: 0.83198345

00:19:53.817 --> 00:19:57.191 to parents or teachers that scores ADHD
NOTE Confidence: 0.83198345

00:19:57.200 --> 00:20:00.196 symptoms from never happening to very off.
NOTE Confidence: 0.83198345

00:20:00.200 --> 00:20:00.623 Thing,
NOTE Confidence: 0.83198345

00:20:00.623 --> 00:20:02.738 and it's freely available online.
NOTE Confidence: 0.83198345

00:20:02.740 --> 00:20:05.290 Here's a web link to it.
NOTE Confidence: 0.83198345

00:20:05.290 --> 00:20:06.100 Ascentia Lee.
NOTE Confidence: 0.83198345

00:20:06.100 --> 00:20:10.379 The kids that come in for ADHD in the clinic.
NOTE Confidence: 0.83198345

00:20:10.380 --> 00:20:13.492 This is what they give them or similar
NOTE Confidence: 0.83198345

00:20:13.492 --> 00:20:16.564 things like this snap or the Vanderbilt
NOTE Confidence: 0.83198345

00:20:16.564 --> 00:20:19.285 in terms of treating families with
NOTE Confidence: 0.83198345

00:20:19.285 --> 00:20:21.817 children with ADHD in the clinic.
NOTE Confidence: 0.83198345

00:20:21.820 --> 00:20:22.271 Really,

NOTE Confidence: 0.83198345

00:20:22.271 --> 00:20:24.526 Psychoeducation is the first things

NOTE Confidence: 0.83198345

00:20:24.526 --> 00:20:26.840 involved in treating these kids

NOTE Confidence: 0.83198345

00:20:26.840 --> 00:20:29.030 racking just helping them recognize

NOTE Confidence: 0.83198345

00:20:29.030 --> 00:20:30.782 the important symptoms and.

NOTE Confidence: 0.83198345

00:20:30.790 --> 00:20:32.149 Cognitive common impairments

NOTE Confidence: 0.83198345

00:20:32.149 --> 00:20:33.508 associated with ADHD.

NOTE Confidence: 0.83198345

00:20:33.510 --> 00:20:36.240 Obviously the typical stuff like inattention,

NOTE Confidence: 0.83198345

00:20:36.240 --> 00:20:36.693 hyperactivity,

NOTE Confidence: 0.83198345

00:20:36.693 --> 00:20:37.988 and impulsive ITI,

NOTE Confidence: 0.83198345

00:20:37.988 --> 00:20:40.704 but the other things that are really

NOTE Confidence: 0.83198345

00:20:40.704 --> 00:20:44.150 important to talk about with families is

NOTE Confidence: 0.83198345

00:20:44.150 --> 00:20:46.226 just the organizational difficulties.

NOTE Confidence: 0.83198345

00:20:46.230 --> 00:20:49.734 Many of these kids have also the common

NOTE Confidence: 0.83198345

00:20:49.734 --> 00:20:52.578 comorbidities that are associated with ADHD.

NOTE Confidence: 0.83198345

00:20:52.580 --> 00:20:54.396 You could call them

NOTE Confidence: 0.83198345

00:20:54.396 --> 00:20:55.758 oppositional defiant disorder,
NOTE Confidence: 0.83198345

00:20:55.760 --> 00:20:56.816 conduct disorder,
NOTE Confidence: 0.83198345

00:20:56.816 --> 00:21:01.040 but I would say that there it's really.
NOTE Confidence: 0.83198345

00:21:01.040 --> 00:21:03.217 Kind of the main problems are aggression,
NOTE Confidence: 0.83198345

00:21:03.220 --> 00:21:04.150 irritability and emotional
NOTE Confidence: 0.83198345

00:21:04.150 --> 00:21:06.140 abilities is sort of, if we're not.
NOTE Confidence: 0.83198345

00:21:06.140 --> 00:21:07.890 If we're going to get into common
NOTE Confidence: 0.83198345

00:21:07.946 --> 00:21:09.434 language and just understanding
NOTE Confidence: 0.83198345

00:21:09.434 --> 00:21:11.294 these things and treating them,
NOTE Confidence: 0.83198345

00:21:11.300 --> 00:21:13.166 the other thing really to talk
NOTE Confidence: 0.83198345

00:21:13.166 --> 00:21:14.630 about with families, just.
NOTE Confidence: 0.83198345

00:21:14.630 --> 00:21:18.340 Will talk about the people very often.
NOTE Confidence: 0.83198345

00:21:18.340 --> 00:21:21.772 Focus on the risks of what the medications
NOTE Confidence: 0.83198345

00:21:21.772 --> 00:21:24.818 are on the treatments for ADHD,
NOTE Confidence: 0.83198345

00:21:24.820 --> 00:21:27.580 but I think it's also important
NOTE Confidence: 0.83198345

00:21:27.580 --> 00:21:30.379 to recognize what the risks are.

NOTE Confidence: 0.83198345

00:21:30.380 --> 00:21:32.828 Not treating ADHD properly and that

NOTE Confidence: 0.83198345

00:21:32.828 --> 00:21:35.077 ADHD is associated with significant

NOTE Confidence: 0.83198345

00:21:35.077 --> 00:21:37.787 impairment impairment in in school,

NOTE Confidence: 0.83198345

00:21:37.790 --> 00:21:39.176 poor school performance,

NOTE Confidence: 0.83198345

00:21:39.176 --> 00:21:41.486 increased risk of dot dropout,

NOTE Confidence: 0.83198345

00:21:41.490 --> 00:21:42.879 and and suspension.

NOTE Confidence: 0.83198345

00:21:42.879 --> 00:21:45.194 It's associated with social impairments,

NOTE Confidence: 0.83198345

00:21:45.200 --> 00:21:46.925 difficulties with friendships

NOTE Confidence: 0.83198345

00:21:46.925 --> 00:21:48.650 and recreational activities.

NOTE Confidence: 0.83198345

00:21:48.650 --> 00:21:50.875 It's associated with the problems

NOTE Confidence: 0.83198345

00:21:50.875 --> 00:21:52.655 went in familial relationships,

NOTE Confidence: 0.83198345

00:21:52.660 --> 00:21:55.770 so also associated with a lot of

NOTE Confidence: 0.83198345

00:21:55.770 --> 00:21:57.996 safety issues that so children

NOTE Confidence: 0.83198345

00:21:57.996 --> 00:22:00.920 with ADHD and and going on to

NOTE Confidence: 0.83198345

00:22:00.920 --> 00:22:02.950 adulthood with 88 fear associated

NOTE Confidence: 0.83198345

00:22:03.030 --> 00:22:05.560 with increased risk of accidents.
NOTE Confidence: 0.83198345

00:22:05.560 --> 00:22:08.092 Whether it's physical accidents in childhood
NOTE Confidence: 0.83198345

00:22:08.092 --> 00:22:10.460 or traffic accidents and adulthood,
NOTE Confidence: 0.83198345

00:22:10.460 --> 00:22:12.236 increased risk of substance
NOTE Confidence: 0.83198345

00:22:12.236 --> 00:22:14.456 abuse and other risky behaviors,
NOTE Confidence: 0.83198345

00:22:14.460 --> 00:22:17.130 most of these things actually improved
NOTE Confidence: 0.83198345

00:22:17.130 --> 00:22:18.910 significantly with successful treatments.
NOTE Confidence: 0.84562516

00:22:21.260 --> 00:22:23.695 Behavioral treatments are also important
NOTE Confidence: 0.84562516

00:22:23.695 --> 00:22:26.130 that children with ADHD establishing
NOTE Confidence: 0.84562516

00:22:26.202 --> 00:22:27.636 clearer routines encouraging
NOTE Confidence: 0.84562516

00:22:27.636 --> 00:22:30.504 structure in their daily set schedule,
NOTE Confidence: 0.84562516

00:22:30.510 --> 00:22:31.971 setting, clear expectations,
NOTE Confidence: 0.84562516

00:22:31.971 --> 00:22:34.893 possibly setting up a reward system
NOTE Confidence: 0.84562516

00:22:34.893 --> 00:22:37.334 for good behavior, avoiding harsh
NOTE Confidence: 0.84562516

00:22:37.334 --> 00:22:39.769 punishment as much as possible,
NOTE Confidence: 0.84562516

00:22:39.770 --> 00:22:41.228 promoting exercise, sleep,

NOTE Confidence: 0.84562516

00:22:41.228 --> 00:22:42.686 hygiene, good nutrition,

NOTE Confidence: 0.84562516

00:22:42.690 --> 00:22:46.476 and then promoting things to strengthen

NOTE Confidence: 0.84562516

00:22:46.476 --> 00:22:49.000 the parent child relationship.

NOTE Confidence: 0.84562516

00:22:49.000 --> 00:22:51.745 There are also a lot of things you can

NOTE Confidence: 0.84562516

00:22:51.745 --> 00:22:54.575 do in school to help kids with ADHD,

NOTE Confidence: 0.84562516

00:22:54.580 --> 00:22:56.434 so there are a lot of

NOTE Confidence: 0.84562516

00:22:56.434 --> 00:22:58.180 things listed on this slide,

NOTE Confidence: 0.84562516

00:22:58.180 --> 00:22:59.800 but essentially having the kids sit

NOTE Confidence: 0.84562516

00:22:59.800 --> 00:23:02.148 in a place in the classroom where

NOTE Confidence: 0.84562516

00:23:02.148 --> 00:23:03.756 they're free from distractions,

NOTE Confidence: 0.84562516

00:23:03.760 --> 00:23:05.435 breaking up the big assignments

NOTE Confidence: 0.84562516

00:23:05.435 --> 00:23:07.481 into smaller pieces and then also

NOTE Confidence: 0.84562516

00:23:07.481 --> 00:23:09.016 writing down in organizing things

NOTE Confidence: 0.84562516

00:23:09.016 --> 00:23:10.980 for kids as much as possible,

NOTE Confidence: 0.84562516

00:23:10.980 --> 00:23:13.269 and then probably the last thing again,

NOTE Confidence: 0.84562516

00:23:13.270 --> 00:23:15.556 is having a reward system in
NOTE Confidence: 0.84562516

00:23:15.556 --> 00:23:18.000 school with a behavioral plan that
NOTE Confidence: 0.84562516

00:23:18.000 --> 00:23:20.105 praises them for good behavior.
NOTE Confidence: 0.84562516

00:23:20.110 --> 00:23:24.190 So when looking at the other six commonly
NOTE Confidence: 0.84562516

00:23:24.190 --> 00:23:27.400 used treatment for ADHD is medication,
NOTE Confidence: 0.84562516

00:23:27.400 --> 00:23:32.210 so I really if you look at all the big
NOTE Confidence: 0.84562516

00:23:32.342 --> 00:23:36.647 NIH clinical trials in psychiatry.
NOTE Confidence: 0.84562516

00:23:36.650 --> 00:23:37.101 MTA,
NOTE Confidence: 0.84562516

00:23:37.101 --> 00:23:39.807 so the multimodal treatment study of
NOTE Confidence: 0.84562516

00:23:39.807 --> 00:23:43.046 ADHD was the first one that was done
NOTE Confidence: 0.84562516

00:23:43.046 --> 00:23:46.369 and I think was the one that got a
NOTE Confidence: 0.84562516

00:23:46.369 --> 00:23:48.956 lot of the trials funded for other
NOTE Confidence: 0.84562516

00:23:48.956 --> 00:23:51.086 disorders looking at practical clinical
NOTE Confidence: 0.84562516

00:23:51.086 --> 00:23:53.679 trials about treatment and the MTA study.
NOTE Confidence: 0.84562516

00:23:53.680 --> 00:23:55.660 The design was quite simple,
NOTE Confidence: 0.84562516

00:23:55.660 --> 00:23:58.369 involved 580 kids 7 to 10 years

NOTE Confidence: 0.84562516

00:23:58.369 --> 00:24:00.410 old with combined type ADHD.

NOTE Confidence: 0.84562516

00:24:00.410 --> 00:24:02.937 They were randomized to 14 months so

NOTE Confidence: 0.84562516

00:24:02.937 --> 00:24:05.159 it's incredibly long randomized trial.

NOTE Confidence: 0.84562516

00:24:05.160 --> 00:24:06.880 They were either randomized

NOTE Confidence: 0.84562516

00:24:06.880 --> 00:24:08.170 to medication management.

NOTE Confidence: 0.84562516

00:24:08.170 --> 00:24:09.810 Behavioral treatment in this behavioral

NOTE Confidence: 0.84562516

00:24:09.810 --> 00:24:11.450 treatment arm was really probably

NOTE Confidence: 0.84562516

00:24:11.504 --> 00:24:12.876 behavioral treatment on steroids

NOTE Confidence: 0.84562516

00:24:12.876 --> 00:24:15.650 compared to what we what the best thing

NOTE Confidence: 0.84562516

00:24:15.650 --> 00:24:18.589 I can possibly offer a kid in the clinic.

NOTE Confidence: 0.84562516

00:24:18.590 --> 00:24:20.455 35 sessions of parent management

NOTE Confidence: 0.84562516

00:24:20.455 --> 00:24:22.719 training an 8 week child focused

NOTE Confidence: 0.84562516

00:24:22.719 --> 00:24:25.050 summer camp in ADHD where the kids

NOTE Confidence: 0.84562516

00:24:25.050 --> 00:24:27.518 would go if they were in the study

NOTE Confidence: 0.84562516

00:24:27.518 --> 00:24:29.666 and then there was a school based

NOTE Confidence: 0.84562516

00:24:29.666 --> 00:24:31.326 intervention where they work with
NOTE Confidence: 0.84562516

00:24:31.326 --> 00:24:33.030 the teachers in the profession.
NOTE Confidence: 0.84562516

00:24:33.030 --> 00:24:33.394 Paraprofessional,
NOTE Confidence: 0.84562516

00:24:33.394 --> 00:24:35.578 the same counselors kind of did
NOTE Confidence: 0.84562516

00:24:35.578 --> 00:24:37.399 all these treatments in the study.
NOTE Confidence: 0.84562516

00:24:37.400 --> 00:24:39.495 You had the combination treatment
NOTE Confidence: 0.84562516

00:24:39.495 --> 00:24:41.590 of both the medication management.
NOTE Confidence: 0.84562516

00:24:41.590 --> 00:24:43.660 And the behavioral therapy and
NOTE Confidence: 0.84562516

00:24:43.660 --> 00:24:45.730 then 'cause they couldn't use
NOTE Confidence: 0.84562516

00:24:45.800 --> 00:24:47.940 placebo controls for 14 months.
NOTE Confidence: 0.84562516

00:24:47.940 --> 00:24:50.598 They had a community care condition
NOTE Confidence: 0.84562516

00:24:50.598 --> 00:24:52.806 where patients were randomized to
NOTE Confidence: 0.84562516

00:24:52.806 --> 00:24:54.978 treatment in the community where they
NOTE Confidence: 0.84562516

00:24:54.978 --> 00:24:58.089 would most of the patients got medications.
NOTE Confidence: 0.84562516

00:24:58.090 --> 00:25:00.970 Actually similar medications to the ones
NOTE Confidence: 0.84562516

00:25:00.970 --> 00:25:04.569 used in the medication management condition.

NOTE Confidence: 0.84562516

00:25:04.570 --> 00:25:06.750 And the primary result of

NOTE Confidence: 0.84562516

00:25:06.750 --> 00:25:08.930 the clinical trial was this,

NOTE Confidence: 0.84562516

00:25:08.930 --> 00:25:09.310 essentially,

NOTE Confidence: 0.84562516

00:25:09.310 --> 00:25:12.350 what mattered in MTA over the 14 months

NOTE Confidence: 0.84562516

00:25:12.350 --> 00:25:15.710 of treatment was whether you were in

NOTE Confidence: 0.84562516

00:25:15.710 --> 00:25:17.646 the medication management condition.

NOTE Confidence: 0.84562516

00:25:17.650 --> 00:25:19.655 So the medication management condition

NOTE Confidence: 0.84562516

00:25:19.655 --> 00:25:21.660 and the combined Freeman condition

NOTE Confidence: 0.84562516

00:25:21.724 --> 00:25:23.320 did statistically equivalent,

NOTE Confidence: 0.84562516

00:25:23.320 --> 00:25:25.540 which was significantly better than

NOTE Confidence: 0.84562516

00:25:25.540 --> 00:25:28.216 the behavioral treatment alone or the

NOTE Confidence: 0.84562516

00:25:28.216 --> 00:25:30.735 Community care for core ADHD symptoms.

NOTE Confidence: 0.84562516

00:25:30.735 --> 00:25:32.960 And it's important to note

NOTE Confidence: 0.84562516

00:25:32.960 --> 00:25:34.740 that the medication management.

NOTE Confidence: 0.84562516

00:25:34.740 --> 00:25:36.585 That the combined treatment so

NOTE Confidence: 0.84562516

00:25:36.585 --> 00:25:38.430 that the addition of behavioral
NOTE Confidence: 0.84562516

00:25:38.492 --> 00:25:40.344 therapy didn't significantly improve
NOTE Confidence: 0.84562516

00:25:40.344 --> 00:25:42.659 outcome to the medications alone,
NOTE Confidence: 0.84562516

00:25:42.660 --> 00:25:45.026 at least in the core ADHD symptoms
NOTE Confidence: 0.84562516

00:25:45.026 --> 00:25:48.139 it did for some of the comorbid
NOTE Confidence: 0.84562516

00:25:48.139 --> 00:25:50.163 behavioral disorders and anxiety,
NOTE Confidence: 0.8508557

00:25:50.170 --> 00:25:52.672 but there was no St statistically
NOTE Confidence: 0.8508557

00:25:52.672 --> 00:25:53.506 significance there.
NOTE Confidence: 0.8508557

00:25:53.510 --> 00:25:56.450 So the bottom line is that medications
NOTE Confidence: 0.8508557

00:25:56.450 --> 00:25:59.855 are even over a fairly long period of
NOTE Confidence: 0.8508557

00:25:59.855 --> 00:26:02.430 time are the most effective treatment
NOTE Confidence: 0.8508557

00:26:02.430 --> 00:26:05.878 we have for the core symptoms of ADHD.
NOTE Confidence: 0.8508557

00:26:05.880 --> 00:26:08.736 And we really in terms of psychopharmacology,
NOTE Confidence: 0.8508557

00:26:08.740 --> 00:26:11.610 we really have two types of medications,
NOTE Confidence: 0.8508557

00:26:11.610 --> 00:26:12.426 methylphenidate derivatives
NOTE Confidence: 0.8508557

00:26:12.426 --> 00:26:13.650 and amphetamine derivatives,

NOTE Confidence: 0.8508557

00:26:13.650 --> 00:26:15.262 to the psychostimulant medications.

NOTE Confidence: 0.8508557

00:26:15.262 --> 00:26:17.277 And there is a huge

NOTE Confidence: 0.8508557

00:26:17.277 --> 00:26:18.970 variety of medications now,

NOTE Confidence: 0.8508557

00:26:18.970 --> 00:26:21.424 but they all essentially work on

NOTE Confidence: 0.8508557

00:26:21.424 --> 00:26:23.060 these two active ingredients.

NOTE Confidence: 0.8508557

00:26:23.060 --> 00:26:25.682 Just the pharmacokinetics of the number

NOTE Confidence: 0.8508557

00:26:25.682 --> 00:26:29.233 of times you need to take him a day

NOTE Confidence: 0.8508557

00:26:29.233 --> 00:26:31.650 when they're in your system differs.

NOTE Confidence: 0.8508557

00:26:31.650 --> 00:26:33.690 And then there are none.

NOTE Confidence: 0.8508557

00:26:33.690 --> 00:26:34.570 Psychostimulant medications

NOTE Confidence: 0.8508557

00:26:34.570 --> 00:26:35.890 like atomoxetine bupropion.

NOTE Confidence: 0.8508557

00:26:35.890 --> 00:26:39.100 A2 agonist like 115 in funding.

NOTE Confidence: 0.8508557

00:26:39.100 --> 00:26:41.935 An if you look at the efficacy

NOTE Confidence: 0.8508557

00:26:41.935 --> 00:26:43.155 of ADHD medications,

NOTE Confidence: 0.8508557

00:26:43.155 --> 00:26:45.180 really the message is quite

NOTE Confidence: 0.8656797

00:26:45.180 --> 00:26:48.420 simple so the so this is a network
NOTE Confidence: 0.8656797

00:26:48.420 --> 00:26:50.850 meta analysis that looked at the
NOTE Confidence: 0.8656797

00:26:50.850 --> 00:26:52.466 comparative efficacy of treatments
NOTE Confidence: 0.8656797

00:26:52.466 --> 00:26:55.299 and the bottom line was that the
NOTE Confidence: 0.8656797

00:26:55.300 --> 00:26:56.920 stimulants worked much better,
NOTE Confidence: 0.8656797

00:26:56.920 --> 00:27:00.162 so this is looking at response rates that
NOTE Confidence: 0.8656797

00:27:00.162 --> 00:27:02.586 the response rates compared to placebo
NOTE Confidence: 0.8656797

00:27:02.590 --> 00:27:04.620 were much higher for stimulants
NOTE Confidence: 0.8656797

00:27:04.620 --> 00:27:05.757 for methylphenidate amphetamine
NOTE Confidence: 0.8656797

00:27:05.757 --> 00:27:08.031 derivatives compared to any of the
NOTE Confidence: 0.8656797

00:27:08.031 --> 00:27:09.880 non stimulant ADHD medication.
NOTE Confidence: 0.8656797

00:27:09.880 --> 00:27:13.373 So the. So the response rate was
NOTE Confidence: 0.8656797

00:27:13.373 --> 00:27:16.536 about 40 to 50% worse for non
NOTE Confidence: 0.8656797

00:27:16.536 --> 00:27:18.200 stimulant medications compared to
NOTE Confidence: 0.8656797

00:27:18.200 --> 00:27:19.864 stimulant medications for ADHD.
NOTE Confidence: 0.8407395

00:27:22.260 --> 00:27:24.246 It's also important to say that

NOTE Confidence: 0.8407395

00:27:24.246 --> 00:27:25.900 the stimulants work much faster,

NOTE Confidence: 0.8407395

00:27:25.900 --> 00:27:27.884 so you can see the effects

NOTE Confidence: 0.8407395

00:27:27.884 --> 00:27:29.539 of stimulants within a week,

NOTE Confidence: 0.8407395

00:27:29.540 --> 00:27:32.529 whereas most of the non stimulant ADHD

NOTE Confidence: 0.8407395

00:27:32.529 --> 00:27:35.123 medications take a couple months before

NOTE Confidence: 0.8407395

00:27:35.123 --> 00:27:38.007 you see the full efficacy of them.

NOTE Confidence: 0.8407395

00:27:38.010 --> 00:27:41.258 So then the next thing we looked at,

NOTE Confidence: 0.8407395

00:27:41.260 --> 00:27:44.800 and this was done with Jose and Victor again,

NOTE Confidence: 0.8407395

00:27:44.800 --> 00:27:48.138 and also a now a PhD student at that

NOTE Confidence: 0.8407395

00:27:48.138 --> 00:27:50.850 time of Louisa Medical student from

NOTE Confidence: 0.8407395

00:27:50.850 --> 00:27:54.374 Brazil looking at does dosing affect the

NOTE Confidence: 0.8407395

00:27:54.374 --> 00:27:57.506 efficacies of stimulants for childhood ADHD?

NOTE Confidence: 0.8407395

00:27:57.510 --> 00:28:01.598 And I'm going to talk about a girl.

NOTE Confidence: 0.8407395

00:28:01.600 --> 00:28:03.736 I will call her Rachel rub.

NOTE Confidence: 0.8407395

00:28:03.740 --> 00:28:06.225 This is not will use Rachel loosely.

NOTE Confidence: 0.8407395

00:28:06.230 --> 00:28:08.722 So Rachel when she presented to the
NOTE Confidence: 0.8407395

00:28:08.722 --> 00:28:12.207 clinic was a 9 year old girl who was in
NOTE Confidence: 0.8407395

00:28:12.207 --> 00:28:14.769 3rd grade carrying a diagnosis of ADHD.
NOTE Confidence: 0.8407395

00:28:14.770 --> 00:28:17.255 She was actually referred to the thread,
NOTE Confidence: 0.8407395

00:28:17.260 --> 00:28:19.396 so seedy clinic 'cause she had
NOTE Confidence: 0.8407395

00:28:19.396 --> 00:28:20.820 some skin picking symptoms.
NOTE Confidence: 0.8407395

00:28:20.820 --> 00:28:23.259 But the big issues was she was at least
NOTE Confidence: 0.8407395

00:28:23.259 --> 00:28:25.647 two grades behind for math and reading
NOTE Confidence: 0.8407395

00:28:25.647 --> 00:28:27.960 and she was getting getting frequently
NOTE Confidence: 0.8407395

00:28:27.960 --> 00:28:30.612 in trouble for school for issues
NOTE Confidence: 0.8407395

00:28:30.612 --> 00:28:32.646 with hyperactivity and impulsive ITI.
NOTE Confidence: 0.8407395

00:28:32.646 --> 00:28:35.320 And when I met her for initially
NOTE Confidence: 0.8407395

00:28:35.396 --> 00:28:36.818 for the evaluation,
NOTE Confidence: 0.8407395

00:28:36.820 --> 00:28:38.955 this is back in the time where
NOTE Confidence: 0.8407395

00:28:38.955 --> 00:28:41.069 we actually saw people in person.
NOTE Confidence: 0.8407395

00:28:41.070 --> 00:28:42.846 She really couldn't even sit for

NOTE Confidence: 0.8407395

00:28:42.846 --> 00:28:44.670 half the 60 minute interview.

NOTE Confidence: 0.8407395

00:28:44.670 --> 00:28:47.730 I plan to do with the family and she

NOTE Confidence: 0.8407395

00:28:47.730 --> 00:28:49.568 was on 10 milligrams of Adderall

NOTE Confidence: 0.8407395

00:28:49.570 --> 00:28:51.206 and she was eventually referred.

NOTE Confidence: 0.8407395

00:28:51.206 --> 00:28:52.841 Because was the Adderall making

NOTE Confidence: 0.8407395

00:28:52.841 --> 00:28:54.149 the skin picking worse?

NOTE Confidence: 0.8407395

00:28:54.150 --> 00:28:57.240 That was a fairly similar.

NOTE Confidence: 0.8407395

00:28:57.240 --> 00:28:58.930 People question to the answer.

NOTE Confidence: 0.8407395

00:28:58.930 --> 00:29:01.275 The first answer is probably their case.

NOTE Confidence: 0.8407395

00:29:01.280 --> 00:29:03.248 Report level data that the stimulants

NOTE Confidence: 0.8407395

00:29:03.248 --> 00:29:05.329 can be associated with skin picking,

NOTE Confidence: 0.8407395

00:29:05.330 --> 00:29:07.346 but there isn't any data from

NOTE Confidence: 0.8407395

00:29:07.346 --> 00:29:09.710 controlled studies, and even if it was,

NOTE Confidence: 0.8407395

00:29:09.710 --> 00:29:11.390 making the skin picking worse,

NOTE Confidence: 0.8407395

00:29:11.390 --> 00:29:13.436 the issues in fool falling behind

NOTE Confidence: 0.8407395

00:29:13.436 --> 00:29:15.586 in the behavioral issues were much
NOTE Confidence: 0.8407395

00:29:15.586 --> 00:29:17.740 more significant and so the basic
NOTE Confidence: 0.8407395

00:29:17.740 --> 00:29:19.559 clinical question is are higher doses
NOTE Confidence: 0.8407395

00:29:19.559 --> 00:29:21.816 of stimulants more effective for ADHD
NOTE Confidence: 0.8407395

00:29:21.816 --> 00:29:26.500 and would they affect the care of this child?
NOTE Confidence: 0.8407395

00:29:26.500 --> 00:29:27.688 So the thing
NOTE Confidence: 0.82159764

00:29:27.690 --> 00:29:30.078 I didn't talk about in the
NOTE Confidence: 0.82159764

00:29:30.080 --> 00:29:32.068 MTA study when it's revisited,
NOTE Confidence: 0.82159764

00:29:32.068 --> 00:29:34.456 is why was the medication management
NOTE Confidence: 0.82159764

00:29:34.456 --> 00:29:36.050 condition more effective than
NOTE Confidence: 0.82159764

00:29:36.050 --> 00:29:37.642 the Community care condition?
NOTE Confidence: 0.82159764

00:29:37.642 --> 00:29:39.459 Actually, in this graph,
NOTE Confidence: 0.82159764

00:29:39.459 --> 00:29:42.297 we stratify the community care conditions
NOTE Confidence: 0.82159764

00:29:42.297 --> 00:29:45.793 by whether or not they were medicated
NOTE Confidence: 0.82159764

00:29:45.793 --> 00:29:48.240 in the medicated Community care.
NOTE Confidence: 0.82159764

00:29:48.240 --> 00:29:49.844 Kids did significantly better

NOTE Confidence: 0.82159764

00:29:49.844 --> 00:29:51.448 than the unmedicated ones,

NOTE Confidence: 0.82159764

00:29:51.450 --> 00:29:53.335 but they did significantly worse

NOTE Confidence: 0.82159764

00:29:53.335 --> 00:29:55.937 than the kids in the medication

NOTE Confidence: 0.82159764

00:29:55.937 --> 00:29:57.860 management condition and.

NOTE Confidence: 0.82159764

00:29:57.860 --> 00:29:59.060 These kids were started

NOTE Confidence: 0.82159764

00:29:59.060 --> 00:30:00.260 on the same medications.

NOTE Confidence: 0.82159764

00:30:00.260 --> 00:30:02.857 So about 86% of them were on

NOTE Confidence: 0.82159764

00:30:02.857 --> 00:30:04.638 methylphenidate and almost every other

NOTE Confidence: 0.82159764

00:30:04.638 --> 00:30:07.789 kid was on an amphetamine derivative.

NOTE Confidence: 0.82159764

00:30:07.790 --> 00:30:10.898 And the big difference was probably

NOTE Confidence: 0.82159764

00:30:10.898 --> 00:30:14.281 one thought to be one of those

NOTE Confidence: 0.82159764

00:30:14.281 --> 00:30:17.250 that the kids in the in medication

NOTE Confidence: 0.82159764

00:30:17.250 --> 00:30:19.143 management condition on average

NOTE Confidence: 0.82159764

00:30:19.143 --> 00:30:21.036 received most of methylphenidate.

NOTE Confidence: 0.82159764

00:30:21.036 --> 00:30:24.350 That was about 40% higher than those

NOTE Confidence: 0.84771985

00:30:24.350 --> 00:30:26.710 in the Community care condition.
NOTE Confidence: 0.84771985

00:30:26.710 --> 00:30:29.552 It was 37.1 milligrams per day
NOTE Confidence: 0.84771985

00:30:29.552 --> 00:30:31.440 of short acting methylphenidate,
NOTE Confidence: 0.84771985

00:30:31.440 --> 00:30:36.548 versus a little under 23. So we actually
NOTE Confidence: 0.8466669

00:30:36.550 --> 00:30:40.510 looked at this in a large meta analysis,
NOTE Confidence: 0.8466669

00:30:40.510 --> 00:30:42.960 so we took all randomized
NOTE Confidence: 0.8466669

00:30:42.960 --> 00:30:44.920 placebo controlled studies of
NOTE Confidence: 0.8466669

00:30:44.920 --> 00:30:46.945 stimulants for childhood ADHD.
NOTE Confidence: 0.8466669

00:30:46.945 --> 00:30:48.922 25 studies involving 70
NOTE Confidence: 0.8466669

00:30:48.922 --> 00:30:51.890 treatment arms over 5000 kids. We
NOTE Confidence: 0.8466669

00:30:51.890 --> 00:30:54.860 excluded trials that wouldn't really be
NOTE Confidence: 0.8466669

00:30:54.860 --> 00:30:55.850 clinically relevant.
NOTE Confidence: 0.8466669

00:30:55.850 --> 00:30:58.326 Crossover trials trials which had
NOTE Confidence: 0.8466669

00:30:58.326 --> 00:31:00.310 the participants selected for
NOTE Confidence: 0.8466669

00:31:00.310 --> 00:31:02.780 a particular dose of methylphenidate
NOTE Confidence: 0.8466669

00:31:02.780 --> 00:31:05.570 or doing well on stimulants.

NOTE Confidence: 0.8466669

00:31:05.570 --> 00:31:06.920 The median length of the

NOTE Confidence: 0.8466669

00:31:06.920 --> 00:31:08.528 trial was four weeks and we

NOTE Confidence: 0.8671204

00:31:08.530 --> 00:31:09.870 really looked at two things.

NOTE Confidence: 0.8395692

00:31:11.530 --> 00:31:13.492 Wait, what was the dose response

NOTE Confidence: 0.8395692

00:31:13.492 --> 00:31:16.340 relationship in in 80 HD medications in

NOTE Confidence: 0.8395692

00:31:16.340 --> 00:31:18.795 general and then versus methylphenidate

NOTE Confidence: 0.8395692

00:31:18.795 --> 00:31:20.568 amphetamine derivatives and also the

NOTE Confidence: 0.8395692

00:31:20.570 --> 00:31:22.534 differences in fixed inflexible dose

NOTE Confidence: 0.8395692

00:31:22.534 --> 00:31:25.283 trials and just so people get the

NOTE Confidence: 0.8395692

00:31:25.283 --> 00:31:27.248 difference between fixed those trials,

NOTE Confidence: 0.8395692

00:31:27.250 --> 00:31:28.405 inflexible those trials.

NOTE Confidence: 0.8395692

00:31:28.405 --> 00:31:31.100 A fixed dose trial is a trial

NOTE Confidence: 0.8395692

00:31:31.181 --> 00:31:33.827 where the patient is assigned to a

NOTE Confidence: 0.8395692

00:31:33.827 --> 00:31:35.850 particular dose of the medication

NOTE Confidence: 0.8395692

00:31:35.850 --> 00:31:38.649 and they can either take that meta

NOTE Confidence: 0.8395692

00:31:38.650 --> 00:31:41.441 dose of the medicine or drop out.
NOTE Confidence: 0.8395692

00:31:41.441 --> 00:31:43.280 So they they have side effects,
NOTE Confidence: 0.8395692

00:31:43.280 --> 00:31:44.990 they still have to stay on
NOTE Confidence: 0.8395692

00:31:44.990 --> 00:31:46.382 that dose of the medicine,
NOTE Confidence: 0.8395692

00:31:46.382 --> 00:31:47.712 whereas in a flexible dose
NOTE Confidence: 0.8395692

00:31:47.712 --> 00:31:49.769 trial you can adjust the dose of
NOTE Confidence: 0.8395692

00:31:49.769 --> 00:31:51.274 medications related to side effects.
NOTE Confidence: 0.791183

00:31:51.280 --> 00:31:53.289 So if you're on a particular dose
NOTE Confidence: 0.791183

00:31:53.290 --> 00:31:54.720 of stimulants, inflexible dose trial,
NOTE Confidence: 0.791183

00:31:54.720 --> 00:31:56.715 you could go down on the dose,
NOTE Confidence: 0.791183

00:31:56.720 --> 00:31:59.006 whereas in if you were fixed those trial,
NOTE Confidence: 0.791183

00:31:59.006 --> 00:32:00.436 you could either continue on
NOTE Confidence: 0.791183

00:32:00.440 --> 00:32:01.870 that dose or drop out.
NOTE Confidence: 0.791183

00:32:01.870 --> 00:32:03.010 That's the big difference
NOTE Confidence: 0.791183

00:32:03.010 --> 00:32:05.540 between the two trial designs.
NOTE Confidence: 0.791183

00:32:05.540 --> 00:32:08.156 And if you're looking at efficacy,

NOTE Confidence: 0.791183

00:32:08.160 --> 00:32:10.350 the improvement in ADHD symptoms,

NOTE Confidence: 0.791183

00:32:10.350 --> 00:32:12.535 the first important point is

NOTE Confidence: 0.791183

00:32:12.535 --> 00:32:14.720 if you look at medications.

NOTE Confidence: 0.791183

00:32:14.720 --> 00:32:16.905 Overall, as you increase the

NOTE Confidence: 0.791183

00:32:16.905 --> 00:32:19.090 dose of of stimulant medications,

NOTE Confidence: 0.791183

00:32:19.090 --> 00:32:22.510 and so these are in methylphenidate

NOTE Confidence: 0.791183

00:32:22.510 --> 00:32:25.380 equivalents and a basic ways.

NOTE Confidence: 0.791183

00:32:25.380 --> 00:32:27.520 Generally the Adderall derivatives have

NOTE Confidence: 0.791183

00:32:27.520 --> 00:32:29.660 twice the potency of methylphenidate,

NOTE Confidence: 0.791183

00:32:29.660 --> 00:32:31.934 so 60 milligrams of methylphenidate people

NOTE Confidence: 0.791183

00:32:31.934 --> 00:32:34.799 to 30 milligrams of Adderall derivatives.

NOTE Confidence: 0.791183

00:32:34.800 --> 00:32:35.227 Essentially,

NOTE Confidence: 0.791183

00:32:35.227 --> 00:32:38.216 there was a overall in the studies.

NOTE Confidence: 0.791183

00:32:38.220 --> 00:32:40.674 You saw a fairly substantial benefit

NOTE Confidence: 0.791183

00:32:40.674 --> 00:32:43.360 of increasing the dose of stimulants.

NOTE Confidence: 0.791183

00:32:43.360 --> 00:32:45.500 Really throughout the dose range,
NOTE Confidence: 0.791183

00:32:45.500 --> 00:32:48.056 but particularly up to 30 milligrams.
NOTE Confidence: 0.791183

00:32:48.060 --> 00:32:50.628 And when you looked at the
NOTE Confidence: 0.791183

00:32:50.628 --> 00:32:52.340 flicks fixed versus flexible,
NOTE Confidence: 0.791183

00:32:52.340 --> 00:32:53.244 those studies,
NOTE Confidence: 0.791183

00:32:53.244 --> 00:32:56.860 if you looked at the fixed those studies.
NOTE Confidence: 0.791183

00:32:56.860 --> 00:32:59.225 Where children had to take
NOTE Confidence: 0.791183

00:32:59.225 --> 00:33:01.590 the dose they were assigned.
NOTE Confidence: 0.791183

00:33:01.590 --> 00:33:04.152 It seemed like the dose response
NOTE Confidence: 0.791183

00:33:04.152 --> 00:33:06.790 relationship was was fairly substantial,
NOTE Confidence: 0.791183

00:33:06.790 --> 00:33:10.718 up to about 20 or 30 milliequivalents and
NOTE Confidence: 0.791183

00:33:10.718 --> 00:33:15.418 then really leveled off at a dose after
NOTE Confidence: 0.791183

00:33:15.418 --> 00:33:17.830 3030 milligram milliliter equivalent.
NOTE Confidence: 0.791183

00:33:17.830 --> 00:33:18.504 So essentially,
NOTE Confidence: 0.791183

00:33:18.504 --> 00:33:21.200 if you were on a dose of methylphenidate
NOTE Confidence: 0.791183

00:33:21.264 --> 00:33:22.889 up and you were increasing,

NOTE Confidence: 0.791183

00:33:22.890 --> 00:33:24.570 it is generally always made.

NOTE Confidence: 0.791183

00:33:24.570 --> 00:33:26.586 It sends up to 30 milligrams.

NOTE Confidence: 0.791183

00:33:26.590 --> 00:33:28.571 If you could adjust the dose and

NOTE Confidence: 0.791183

00:33:28.571 --> 00:33:31.099 if you went higher on the dose and

NOTE Confidence: 0.791183

00:33:31.099 --> 00:33:33.632 you couldn't have just said it was

NOTE Confidence: 0.791183

00:33:33.632 --> 00:33:35.348 a relatively neutral proposition.

NOTE Confidence: 0.791183

00:33:35.350 --> 00:33:37.270 Whereas if you look at the

NOTE Confidence: 0.791183

00:33:37.270 --> 00:33:39.060 flexible dose studies in orange,

NOTE Confidence: 0.791183

00:33:39.060 --> 00:33:39.740 there is

NOTE Confidence: 0.8504694

00:33:39.740 --> 00:33:42.085 a fairly linear relationship between the dose

NOTE Confidence: 0.8504694

00:33:42.090 --> 00:33:44.118 and the efficacy of the medication.

NOTE Confidence: 0.8504694

00:33:44.120 --> 00:33:46.521 That is even going up to the

NOTE Confidence: 0.8504694

00:33:46.521 --> 00:33:48.150 higher doses were better.

NOTE Confidence: 0.8504694

00:33:48.150 --> 00:33:50.250 Uh, when you were able to adjust

NOTE Confidence: 0.8504694

00:33:50.250 --> 00:33:52.518 the dose down due to tolerability?

NOTE Confidence: 0.8138287

00:33:55.610 --> 00:33:58.320 In terms of side effect,
NOTE Confidence: 0.8138287

00:33:58.320 --> 00:34:01.089 dropouts, not surprisingly.
NOTE Confidence: 0.8138287

00:34:01.090 --> 00:34:02.260 There you are.
NOTE Confidence: 0.8138287

00:34:02.260 --> 00:34:04.210 Higher rates of side effects,
NOTE Confidence: 0.8138287

00:34:04.210 --> 00:34:05.778 dropouts with psychostimulant medications.
NOTE Confidence: 0.8138287

00:34:05.778 --> 00:34:08.500 As you got to a higher dose,
NOTE Confidence: 0.8138287

00:34:08.500 --> 00:34:10.450 the effects were great greater,
NOTE Confidence: 0.8138287

00:34:10.450 --> 00:34:13.570 so the dropouts due to side effects were
NOTE Confidence: 0.8138287

00:34:13.570 --> 00:34:16.300 hiring the fix those studies is compared
NOTE Confidence: 0.8138287

00:34:16.300 --> 00:34:20.140 to the flexibel those studies and.
NOTE Confidence: 0.8138287

00:34:20.140 --> 00:34:22.724 And the and the risk of side effects
NOTE Confidence: 0.8138287

00:34:22.724 --> 00:34:24.809 and the relationship between dose
NOTE Confidence: 0.8138287

00:34:24.809 --> 00:34:27.994 and dropouts to the side effects was
NOTE Confidence: 0.8138287

00:34:28.070 --> 00:34:30.878 fairly similar between methylphenidate
NOTE Confidence: 0.8138287

00:34:30.878 --> 00:34:32.984 and amphetamine derivatives.
NOTE Confidence: 0.8138287

00:34:32.990 --> 00:34:35.468 And if you looked at acceptability

NOTE Confidence: 0.8138287

00:34:35.468 --> 00:34:37.120 across all the studies,

NOTE Confidence: 0.8138287

00:34:37.120 --> 00:34:39.532 the the likelihood of all cause

NOTE Confidence: 0.8138287

00:34:39.532 --> 00:34:41.560 dropouts of people leaving the

NOTE Confidence: 0.8138287

00:34:41.560 --> 00:34:43.636 study was actually lower the higher

NOTE Confidence: 0.8138287

00:34:43.636 --> 00:34:46.209 you got on stimulant medication.

NOTE Confidence: 0.8138287

00:34:46.210 --> 00:34:48.125 So subjects were less likely

NOTE Confidence: 0.8138287

00:34:48.125 --> 00:34:50.750 to drop out of these studies.

NOTE Confidence: 0.8138287

00:34:50.750 --> 00:34:51.989 The higher dose

NOTE Confidence: 0.8634161

00:34:51.990 --> 00:34:53.226 of stimulant medications

NOTE Confidence: 0.8634161

00:34:53.226 --> 00:34:56.370 you put them on, and.

NOTE Confidence: 0.86129886

00:34:56.370 --> 00:34:57.711 And not surprisingly,

NOTE Confidence: 0.86129886

00:34:57.711 --> 00:35:00.402 this was a greater effect, inflexible.

NOTE Confidence: 0.86129886

00:35:00.402 --> 00:35:02.662 Those studies where you could

NOTE Confidence: 0.86129886

00:35:02.662 --> 00:35:04.971 decrease the dose of the

NOTE Confidence: 0.86129886

00:35:04.971 --> 00:35:07.096 medication due to side effects.

NOTE Confidence: 0.86129886

00:35:07.100 --> 00:35:09.728 And again, there was not much
NOTE Confidence: 0.86129886

00:35:09.728 --> 00:35:11.042 difference between methylphenidate
NOTE Confidence: 0.86129886

00:35:11.042 --> 00:35:12.447 and amphetamine derivatives
NOTE Confidence: 0.86129886

00:35:12.447 --> 00:35:14.700 in terms of these outcomes.
NOTE Confidence: 0.7953555

00:35:17.490 --> 00:35:20.300 So the bottom line is, well, when
NOTE Confidence: 0.7953555

00:35:20.300 --> 00:35:22.972 you can pause or just a dose of
NOTE Confidence: 0.7953555

00:35:22.972 --> 00:35:25.146 stimulants to the side effects
NOTE Confidence: 0.7953555

00:35:25.146 --> 00:35:27.516 similar to flexible dosing trials,
NOTE Confidence: 0.7953555

00:35:27.520 --> 00:35:29.728 and almost always makes sense to
NOTE Confidence: 0.7953555

00:35:29.728 --> 00:35:32.700 try at least try titrating up to
NOTE Confidence: 0.7953555

00:35:32.700 --> 00:35:35.538 higher doses of stimulants that it's
NOTE Confidence: 0.7953555

00:35:35.538 --> 00:35:38.020 associated with the greater treatment
NOTE Confidence: 0.7953555

00:35:38.020 --> 00:35:40.906 efficacy and its associated with the.
NOTE Confidence: 0.7953555

00:35:40.910 --> 00:35:41.718 Actually, greater,
NOTE Confidence: 0.7953555

00:35:41.718 --> 00:35:43.330 better acceptability among patients
NOTE Confidence: 0.7953555

00:35:43.330 --> 00:35:44.936 and medications work better,

NOTE Confidence: 0.7953555

00:35:44.936 --> 00:35:47.354 and this outweighs any side effects.

NOTE Confidence: 0.7953555

00:35:47.360 --> 00:35:49.773 They have an when you have

NOTE Confidence: 0.7953555

00:35:49.773 --> 00:35:51.788 side effects in these trials,

NOTE Confidence: 0.7953555

00:35:51.790 --> 00:35:53.398 either clinically or in

NOTE Confidence: 0.7953555

00:35:53.398 --> 00:35:54.604 actual clinical trials,

NOTE Confidence: 0.7953555

00:35:54.610 --> 00:35:56.530 you can quickly adjust the

NOTE Confidence: 0.7953555

00:35:56.530 --> 00:35:59.371 dose down so it so it leads

NOTE Confidence: 0.7953555

00:35:59.371 --> 00:36:01.867 to less dropouts and and this.

NOTE Confidence: 0.8603655

00:36:04.860 --> 00:36:07.254 Again, really backs up the findings

NOTE Confidence: 0.8603655

00:36:07.254 --> 00:36:10.584 of the original MTA study, and then I

NOTE Confidence: 0.8603655

00:36:10.584 --> 00:36:12.624 think it's really important clinically,

NOTE Confidence: 0.8603655

00:36:12.630 --> 00:36:16.311 so I put a graph up from actually a

NOTE Confidence: 0.8603655

00:36:16.311 --> 00:36:18.766 article that was published in the

NOTE Confidence: 0.8603655

00:36:18.766 --> 00:36:20.806 Orange Journal this past month,

NOTE Confidence: 0.8603655

00:36:20.810 --> 00:36:24.032 and this was a study that looked at treating

NOTE Confidence: 0.8603655

00:36:24.032 --> 00:36:26.950 kids with ADHD and comorbid aggression,
NOTE Confidence: 0.8603655

00:36:26.950 --> 00:36:30.220 and essentially kids were put in this study.
NOTE Confidence: 0.8603655

00:36:30.220 --> 00:36:31.848 If they had both,
NOTE Confidence: 0.8603655

00:36:31.850 --> 00:36:33.900 significant if they had qualified
NOTE Confidence: 0.86038384

00:36:33.900 --> 00:36:36.200 for diagnosis of ADHD. And
NOTE Confidence: 0.8604572

00:36:36.200 --> 00:36:38.426 then had a significant aggressive symptoms,
NOTE Confidence: 0.8604572

00:36:38.430 --> 00:36:41.020 as judged by a threshold an aggression,
NOTE Confidence: 0.8604572

00:36:41.020 --> 00:36:44.338 rating skill and all the kids were.
NOTE Confidence: 0.8604572

00:36:44.340 --> 00:36:46.100 Initially optimized on stimulant
NOTE Confidence: 0.8604572

00:36:46.100 --> 00:36:48.730 medication so they were put on
NOTE Confidence: 0.8604572

00:36:48.730 --> 00:36:51.358 stimulant medication and then if they
NOTE Confidence: 0.8348742

00:36:51.360 --> 00:36:54.000 did not respond to stimulant medication
NOTE Confidence: 0.8348742

00:36:54.000 --> 00:36:56.190 then they were randomized to
NOTE Confidence: 0.8348742

00:36:56.190 --> 00:36:58.390 receive either Depa Co Risperdal
NOTE Confidence: 0.8348742

00:36:58.390 --> 00:37:02.450 and placebo and they had about.
NOTE Confidence: 0.8348742

00:37:02.450 --> 00:37:04.318 150 kids that started

NOTE Confidence: 0.8416026

00:37:04.320 --> 00:37:08.056 this study and 63% of them when the

NOTE Confidence: 0.8416026

00:37:08.056 --> 00:37:10.858 dose of the stimulant was optimized

NOTE Confidence: 0.8416026

00:37:10.860 --> 00:37:14.126 for ADHD no longer met the aggression

NOTE Confidence: 0.8416026

00:37:14.126 --> 00:37:16.928 criteria of being in the trial.

NOTE Confidence: 0.8416026

00:37:16.928 --> 00:37:19.263 So essentially it seems like

NOTE Confidence: 0.8416026

00:37:19.263 --> 00:37:22.640 Risperdal and Deppe coat.

NOTE Confidence: 0.8416026

00:37:22.640 --> 00:37:24.090 Seem like they were a

NOTE Confidence: 0.8416026

00:37:24.090 --> 00:37:25.466 little better than placebo,

NOTE Confidence: 0.8416026

00:37:25.466 --> 00:37:26.842 though not statistically significant

NOTE Confidence: 0.8416026

00:37:26.842 --> 00:37:28.468 'cause they lost most of their

NOTE Confidence: 0.8416026

00:37:28.468 --> 00:37:29.573 sample in the open phase.

NOTE Confidence: 0.8227025

00:37:31.650 --> 00:37:35.202 But most of the kids who were really

NOTE Confidence: 0.8227025

00:37:35.202 --> 00:37:37.868 being enrolled in this trial for

NOTE Confidence: 0.8227025

00:37:37.870 --> 00:37:40.090 aggression, who had comorbid ADHD

NOTE Confidence: 0.8227025

00:37:40.090 --> 00:37:41.407 symptoms actually optimizing

NOTE Confidence: 0.8227025

00:37:41.407 --> 00:37:43.602 the stimulant led to substantial
NOTE Confidence: 0.8227025

00:37:43.602 --> 00:37:45.409 improvement in these patients.
NOTE Confidence: 0.8227025

00:37:45.410 --> 00:37:48.522 An really, at least as a clinician,
NOTE Confidence: 0.8227025

00:37:48.522 --> 00:37:50.299 makes me wonder how
NOTE Confidence: 0.8227025

00:37:50.300 --> 00:37:52.520 many kids are created with
NOTE Confidence: 0.8227025

00:37:52.520 --> 00:37:54.740 this load open the stimulant
NOTE Confidence: 0.8227025

00:37:54.740 --> 00:37:56.955 plus Risperdal or Deppe code
NOTE Confidence: 0.8227025

00:37:56.955 --> 00:37:59.176 and and whether we should.
NOTE Confidence: 0.8227025

00:37:59.176 --> 00:38:01.400 We should really be optimizing
NOTE Confidence: 0.8227025

00:38:01.400 --> 00:38:03.619 the dose of stimulants first.
NOTE Confidence: 0.80419576

00:38:05.950 --> 00:38:10.016 So Rachel's story continued. So Rachel's roll
NOTE Confidence: 0.80419576

00:38:10.020 --> 00:38:14.210 call her was. Was increased
NOTE Confidence: 0.8467837

00:38:14.210 --> 00:38:16.400 to a dose of Concerta. 54
NOTE Confidence: 0.8467837

00:38:16.400 --> 00:38:19.280 milligrams in the clinic.
NOTE Confidence: 0.8467837

00:38:19.280 --> 00:38:21.289 We switched her from Adderall to
NOTE Confidence: 0.8013194

00:38:21.290 --> 00:38:22.630 Concerta, just 'cause the

NOTE Confidence: 0.8013194

00:38:22.630 --> 00:38:25.370 pharmacokinetics made more sense.

NOTE Confidence: 0.8013194

00:38:25.370 --> 00:38:27.510 Is now advancing school.

NOTE Confidence: 0.8013194

00:38:27.510 --> 00:38:29.655 She's on grade levels.

NOTE Confidence: 0.8013194

00:38:29.655 --> 00:38:32.859 She's excelling in school made honor,

NOTE Confidence: 0.8013194

00:38:32.860 --> 00:38:35.000 roll, receiving excellent behavioral

NOTE Confidence: 0.8067805

00:38:35.000 --> 00:38:38.215 out valuations from school or ADHD.

NOTE Confidence: 0.8067805

00:38:38.215 --> 00:38:43.220 Symptoms are now minimum minimal. The mom

NOTE Confidence: 0.8479111

00:38:43.220 --> 00:38:45.578 came in to see me last

NOTE Confidence: 0.8479111

00:38:45.580 --> 00:38:48.317 week. It wasn't last week was a

NOTE Confidence: 0.8479111

00:38:48.317 --> 00:38:51.060 couple weeks ago in the clinic and

NOTE Confidence: 0.8479111

00:38:51.060 --> 00:38:53.328 and I see her every month just

NOTE Confidence: 0.8479111

00:38:53.328 --> 00:38:55.739 to kind of manage the medications

NOTE Confidence: 0.8479111

00:38:55.739 --> 00:38:58.896 and the real Rachel in the clinic.

NOTE Confidence: 0.8479111

00:38:58.900 --> 00:39:00.860 Mom said since rate rachels

NOTE Confidence: 0.8479111

00:39:00.860 --> 00:39:02.820 ADHD is improved in school,

NOTE Confidence: 0.8479111

00:39:02.820 --> 00:39:05.564 no one's pushing her like they should.

NOTE Confidence: 0.8479111

00:39:05.570 --> 00:39:07.850 She's not being challenged and they're

NOTE Confidence: 0.8479111

00:39:07.850 --> 00:39:10.660 letting her off easy on his assignments,

NOTE Confidence: 0.8479111

00:39:10.660 --> 00:39:12.392 keeping in place educational.

NOTE Confidence: 0.8479111

00:39:12.392 --> 00:39:14.557 Supports if they probably shouldn't.

NOTE Confidence: 0.8479111

00:39:14.560 --> 00:39:16.936 I hate to bring up race,

NOTE Confidence: 0.8479111

00:39:16.940 --> 00:39:18.915 but is she being treated

NOTE Confidence: 0.8479111

00:39:18.915 --> 00:39:20.495 differently because she's black?

NOTE Confidence: 0.8479111

00:39:20.500 --> 00:39:24.084 So Rachel in real clinic life is

NOTE Confidence: 0.8479111

00:39:24.084 --> 00:39:27.218 a black patient with ADHD and.

NOTE Confidence: 0.8479111

00:39:27.220 --> 00:39:29.072 This question really kind

NOTE Confidence: 0.8479111

00:39:29.072 --> 00:39:31.850 of stopped me in my tracks,

NOTE Confidence: 0.8479111

00:39:31.850 --> 00:39:35.546 'cause I think the answer is clearly yes.

NOTE Confidence: 0.8479111

00:39:35.550 --> 00:39:38.715 It's quite possible she's being

NOTE Confidence: 0.8479111

00:39:38.715 --> 00:39:41.247 treated differently with her

NOTE Confidence: 0.8479111

00:39:41.247 --> 00:39:44.720 ADHD in school and both in the

NOTE Confidence: 0.8479111

00:39:44.720 --> 00:39:47.529 clinic because of her her race.

NOTE Confidence: 0.8479111

00:39:47.530 --> 00:39:49.708 And that's the basic clinical question,

NOTE Confidence: 0.8479111

00:39:49.710 --> 00:39:52.979 and if you look at the literature on 80

NOTE Confidence: 0.8535101

00:39:52.980 --> 00:39:55.708 E, this was a study published in Pediatrics

NOTE Confidence: 0.8535101

00:39:55.708 --> 00:39:57.592 that involved in nationally represented

NOTE Confidence: 0.8535101

00:39:57.592 --> 00:40:00.336 sample of over 17,000 kids with 88.

NOTE Confidence: 0.8535101

00:40:00.336 --> 00:40:04.180 The fall to 8th grade an looked at

NOTE Confidence: 0.8535101

00:40:04.180 --> 00:40:06.120 outcomes were essentially diagnosis

NOTE Confidence: 0.8535101

00:40:06.201 --> 00:40:08.674 or assessment for ADHD and whether

NOTE Confidence: 0.8535101

00:40:08.674 --> 00:40:11.452 they were taking medications or not.

NOTE Confidence: 0.8535101

00:40:11.452 --> 00:40:14.686 And if you were black or Hispanic,

NOTE Confidence: 0.8535101

00:40:14.690 --> 00:40:17.000 you are much less likely

NOTE Confidence: 0.8535101

00:40:17.000 --> 00:40:19.325 to be diagnosed with ADHD.

NOTE Confidence: 0.8535101

00:40:19.325 --> 00:40:23.310 And if you looked among.

NOTE Confidence: 0.8535101

00:40:23.310 --> 00:40:25.728 Black and Hispanic children in school.

NOTE Confidence: 0.8535101

00:40:25.730 --> 00:40:29.357 The kids who did have ADHD at 5th grade
NOTE Confidence: 0.8535101

00:40:29.360 --> 00:40:32.180 were much less likely to be receiving
NOTE Confidence: 0.8732185

00:40:32.180 --> 00:40:33.940 pharmacological treatment
NOTE Confidence: 0.8732185

00:40:33.940 --> 00:40:36.759 for ADHD. So again, this
NOTE Confidence: 0.8223581

00:40:36.760 --> 00:40:38.525 the pharmacological treatment is is
NOTE Confidence: 0.8223581

00:40:38.525 --> 00:40:40.293 again the most effective treatment
NOTE Confidence: 0.8223581

00:40:40.293 --> 00:40:42.403 we know about for ADHD symptoms,
NOTE Confidence: 0.8223581

00:40:42.403 --> 00:40:45.228 and it's clear it's quite a bit less.
NOTE Confidence: 0.8223581

00:40:45.230 --> 00:40:47.701 I have also done some work in
NOTE Confidence: 0.8223581

00:40:47.701 --> 00:40:49.818 the past, I guess looking at
NOTE Confidence: 0.8223581

00:40:49.820 --> 00:40:51.940 the MTA cohort. So again, this
NOTE Confidence: 0.8223581

00:40:51.940 --> 00:40:53.700 these were the, you know,
NOTE Confidence: 0.8223581

00:40:53.700 --> 00:40:56.528 the kids with ADHD that were in the
NOTE Confidence: 0.8223581

00:40:56.528 --> 00:40:58.646 big NIH DOT study comparing behavioral
NOTE Confidence: 0.8223581

00:40:58.646 --> 00:41:00.758 treatments to stimulants over 14 months,
NOTE Confidence: 0.8223581

00:41:00.760 --> 00:41:03.233 and we looked at they actually filed

NOTE Confidence: 0.8223581

00:41:03.233 --> 00:41:05.820 these kids up to adulthood now.

NOTE Confidence: 0.8223581

00:41:05.820 --> 00:41:09.070 But we looked at the eight year follow

NOTE Confidence: 0.8223581

00:41:09.070 --> 00:41:12.194 up data and looked at really did a

NOTE Confidence: 0.8223581

00:41:12.194 --> 00:41:14.292 bunch of analysis looking at data

NOTE Confidence: 0.8223581

00:41:14.292 --> 00:41:16.200 driven predictors of the likelihood

NOTE Confidence: 0.8223581

00:41:16.200 --> 00:41:17.722 of receiving school discipline.

NOTE Confidence: 0.8223581

00:41:17.722 --> 00:41:19.627 So being suspended or expelled

NOTE Confidence: 0.8223581

00:41:19.630 --> 00:41:22.670 from school in the Co work and what

NOTE Confidence: 0.8388903

00:41:22.670 --> 00:41:24.956 in kids with ADHD predicts who's

NOTE Confidence: 0.8388903

00:41:24.960 --> 00:41:26.484 going to get suspended

NOTE Confidence: 0.8388903

00:41:26.484 --> 00:41:28.008 or expelled from school.

NOTE Confidence: 0.8388903

00:41:28.010 --> 00:41:31.055 And if you look at this cohort and

NOTE Confidence: 0.8388903

00:41:31.055 --> 00:41:32.579 essentially our main philosophies

NOTE Confidence: 0.8388903

00:41:32.580 --> 00:41:35.151 in these data driven approaches is

NOTE Confidence: 0.8388903

00:41:35.151 --> 00:41:37.536 throw everything at the kitchens.

NOTE Confidence: 0.8388903

00:41:37.540 --> 00:41:40.379 Except the kitchen sink at them
NOTE Confidence: 0.8388903

00:41:40.380 --> 00:41:43.219 and then see what comes out
NOTE Confidence: 0.853691

00:41:43.220 --> 00:41:46.052 as being important and the best
NOTE Confidence: 0.853691

00:41:46.052 --> 00:41:48.421 predictor of in this cohort.
NOTE Confidence: 0.853691

00:41:48.421 --> 00:41:51.253 So kids who actually receive the
NOTE Confidence: 0.853691

00:41:51.253 --> 00:41:53.619 evidence base the similar pharmacological
NOTE Confidence: 0.853691

00:41:53.620 --> 00:41:55.512 treatments and behavioral treatments
NOTE Confidence: 0.853691

00:41:55.512 --> 00:41:58.830 for ADHD. If you identified his black,
NOTE Confidence: 0.853691

00:41:58.830 --> 00:42:02.609 you were 62% more likely to have been
NOTE Confidence: 0.853691

00:42:02.610 --> 00:42:04.970 received school discipline. So over
NOTE Confidence: 0.853691

00:42:04.970 --> 00:42:08.500 the eight year follow up, period.
NOTE Confidence: 0.853691

00:42:08.500 --> 00:42:10.980 And and this is an Ann, I
NOTE Confidence: 0.84553564

00:42:10.980 --> 00:42:13.812 think at the time when I did this,
NOTE Confidence: 0.84553564

00:42:13.812 --> 00:42:16.640 when we publish this about five years ago,
NOTE Confidence: 0.84553564

00:42:16.640 --> 00:42:18.412 this was astonishing to me.
NOTE Confidence: 0.84553564

00:42:18.412 --> 00:42:20.892 I will say it's not astonishing to

NOTE Confidence: 0.84553564

00:42:20.892 --> 00:42:23.718 me anymore, but it was amazing to me.

NOTE Confidence: 0.84553564

00:42:23.720 --> 00:42:25.916 That raised was a better predictor

NOTE Confidence: 0.84553564

00:42:25.916 --> 00:42:27.380 of receiving significant different

NOTE Confidence: 0.84553564

00:42:27.437 --> 00:42:29.027 discipline in school than your

NOTE Confidence: 0.84553564

00:42:29.030 --> 00:42:30.446 initial response to medications.

NOTE Confidence: 0.84553564

00:42:30.446 --> 00:42:32.570 How bad your ADHD symptoms were,

NOTE Confidence: 0.84553564

00:42:32.570 --> 00:42:35.583 what your gender was, when you had,

NOTE Confidence: 0.84553564

00:42:35.583 --> 00:42:38.769 whether you had any comorbid diagnosis.

NOTE Confidence: 0.84553564

00:42:38.770 --> 00:42:39.799 At initial baseline.

NOTE Confidence: 0.84553564

00:42:39.799 --> 00:42:40.828 So basically everything.

NOTE Confidence: 0.84553564

00:42:40.830 --> 00:42:43.245 I felt like I was trained to

NOTE Confidence: 0.84553564

00:42:43.245 --> 00:42:46.378 look at as a psychiatrist.

NOTE Confidence: 0.84553564

00:42:46.380 --> 00:42:49.530 With less important than race and

NOTE Confidence: 0.84553564

00:42:49.530 --> 00:42:52.255 looking at really school disciplines

NOTE Confidence: 0.84553564

00:42:52.255 --> 00:42:55.435 and outcomes and and and then

NOTE Confidence: 0.8083895

00:42:55.440 --> 00:43:02.130 the other issue is our racial. The.
NOTE Confidence: 0.8083895

00:43:02.130 --> 00:43:04.476 You are racial implicit associations are
NOTE Confidence: 0.8083895

00:43:04.476 --> 00:43:07.732 are are how we treat patients of different
NOTE Confidence: 0.8083895

00:43:07.732 --> 00:43:10.805 races important in the in the diagnosis
NOTE Confidence: 0.8083895

00:43:10.805 --> 00:43:13.645 and treatment of different conditions.
NOTE Confidence: 0.8083895

00:43:13.650 --> 00:43:15.859 And although this is not
NOTE Confidence: 0.8083895

00:43:15.860 --> 00:43:17.684 directly related to ADHD,
NOTE Confidence: 0.8083895

00:43:17.684 --> 00:43:20.740 this was something that came out of.
NOTE Confidence: 0.8083895

00:43:20.740 --> 00:43:23.834 This study came out of a discussion
NOTE Confidence: 0.8083895

00:43:23.834 --> 00:43:26.495 with Malia, who I think from
NOTE Confidence: 0.8083895

00:43:26.495 --> 00:43:28.708 the audience today, and Jerome,
NOTE Confidence: 0.8083895

00:43:28.708 --> 00:43:32.004 who's now an assistant professor at Penn.
NOTE Confidence: 0.8083895

00:43:32.004 --> 00:43:35.106 Some also recently got his K award,
NOTE Confidence: 0.8083895

00:43:35.106 --> 00:43:37.970 and it's doing really well and it
NOTE Confidence: 0.8083895

00:43:37.970 --> 00:43:40.665 was just really came out of the
NOTE Confidence: 0.8083895

00:43:40.665 --> 00:43:42.911 observation of when we're talking

NOTE Confidence: 0.8083895

00:43:42.911 --> 00:43:45.136 that mostly the adult clinics,

NOTE Confidence: 0.8083895

00:43:45.140 --> 00:43:47.230 but also the child clinics.

NOTE Confidence: 0.8083895

00:43:47.230 --> 00:43:49.624 If you looked at the patients

NOTE Confidence: 0.8083895

00:43:49.624 --> 00:43:52.240 we treated in the OCD clinic,

NOTE Confidence: 0.8083895

00:43:52.240 --> 00:43:54.748 we rarely ever treated a black

NOTE Confidence: 0.8083895

00:43:54.750 --> 00:43:56.368 patient in that clinic,

NOTE Confidence: 0.8083895

00:43:56.368 --> 00:43:59.091 and if you looked at the patients

NOTE Confidence: 0.8083895

00:43:59.091 --> 00:44:01.440 we were treating for schizophrenia,

NOTE Confidence: 0.8083895

00:44:01.440 --> 00:44:03.915 they were primarily by PAC individuals.

NOTE Confidence: 0.8083895

00:44:03.915 --> 00:44:05.744 That was just something that's

NOTE Confidence: 0.8083895

00:44:05.744 --> 00:44:07.429 been striking in my training

NOTE Confidence: 0.8083895

00:44:07.429 --> 00:44:09.030 and my observation that yell,

NOTE Confidence: 0.8083895

00:44:09.030 --> 00:44:11.302 and I think it's true to some

NOTE Confidence: 0.8083895

00:44:11.302 --> 00:44:13.346 extent in the in the general clinics

NOTE Confidence: 0.8083895

00:44:13.346 --> 00:44:15.300 and the specialty clinics too.

NOTE Confidence: 0.8083895

00:44:15.300 --> 00:44:20.187 But I would say little less so in children.
NOTE Confidence: 0.8083895

00:44:20.190 --> 00:44:23.032 So we wanted to know like what's
NOTE Confidence: 0.8083895

00:44:23.032 --> 00:44:24.880 what's driving this effect?
NOTE Confidence: 0.8083895

00:44:24.880 --> 00:44:26.140 What's causing this?
NOTE Confidence: 0.8083895

00:44:26.140 --> 00:44:29.080 And the first important thing to note
NOTE Confidence: 0.8083895

00:44:29.154 --> 00:44:31.686 is that there are definitely racial
NOTE Confidence: 0.87044364

00:44:31.690 --> 00:44:34.246 diagnostic treatment disparities in track in
NOTE Confidence: 0.87044364

00:44:34.250 --> 00:44:36.690 psychiatry. So prior studies have
NOTE Confidence: 0.87044364

00:44:36.690 --> 00:44:38.642 suggested that individuals black
NOTE Confidence: 0.87044364

00:44:38.642 --> 00:44:40.639 individuals are three to five times
NOTE Confidence: 0.87044364

00:44:40.640 --> 00:44:43.190 more likely to be diagnosed with
NOTE Confidence: 0.87044364

00:44:43.190 --> 00:44:45.326 schizophrenia compared to white patients,
NOTE Confidence: 0.87044364

00:44:45.326 --> 00:44:47.030 despite evidence suggesting a
NOTE Confidence: 0.87044364

00:44:47.030 --> 00:44:48.730 similar prevalence across racial
NOTE Confidence: 0.87044364

00:44:48.730 --> 00:44:51.280 groups. So we wanted to examine
NOTE Confidence: 0.87044364

00:44:51.280 --> 00:44:53.339 implicit associations or attitudes.

NOTE Confidence: 0.87044364

00:44:53.340 --> 00:44:56.442 Uh, basically appraisals that are made

NOTE Confidence: 0.87044364

00:44:56.442 --> 00:44:59.071 automatically and unconsciously and may

NOTE Confidence: 0.87044364

00:44:59.071 --> 00:45:02.144 contribute to health care disparity and

NOTE Confidence: 0.87044364

00:45:02.144 --> 00:45:04.734 prior research is really conceptualized.

NOTE Confidence: 0.87044364

00:45:04.740 --> 00:45:07.326 Implicit bias ease as a

NOTE Confidence: 0.87044364

00:45:07.326 --> 00:45:09.400 form of indirect racism,

NOTE Confidence: 0.87044364

00:45:09.400 --> 00:45:12.510 and really we had two study

NOTE Confidence: 0.87044364

00:45:12.510 --> 00:45:15.139 questions and this trial do

NOTE Confidence: 0.87044364

00:45:15.139 --> 00:45:17.271 psychiatrist and trainees have

NOTE Confidence: 0.87044364

00:45:17.271 --> 00:45:19.240 racial implicit associations were

NOTE Confidence: 0.87044364

00:45:19.240 --> 00:45:21.386 related to psychiatric diagnosis,

NOTE Confidence: 0.87044364

00:45:21.386 --> 00:45:23.598 treatment and compliance an.

NOTE Confidence: 0.87044364

00:45:23.600 --> 00:45:25.645 And what Democrats demographic factors

NOTE Confidence: 0.87044364

00:45:25.645 --> 00:45:27.960 predict racial implicit associations of any.

NOTE Confidence: 0.87044364

00:45:27.960 --> 00:45:30.564 And so I don't know how many

NOTE Confidence: 0.87044364

00:45:30.564 --> 00:45:32.709 of you have taken the.
NOTE Confidence: 0.8291352

00:45:35.390 --> 00:45:37.050 You can look on Project
NOTE Confidence: 0.8291352

00:45:37.050 --> 00:45:38.046 Implicit's website and
NOTE Confidence: 0.8291352

00:45:38.050 --> 00:45:41.050 take any one of a number of them. There
NOTE Confidence: 0.8291352

00:45:41.050 --> 00:45:42.928 will also and show you another
NOTE Confidence: 0.8291352

00:45:42.928 --> 00:45:45.300 study you can do at the end
NOTE Confidence: 0.8291352

00:45:45.300 --> 00:45:47.050 looking at child mental health,
NOTE Confidence: 0.8291352

00:45:47.050 --> 00:45:50.580 but essentially these tasks. You care.
NOTE Confidence: 0.80394274

00:45:52.100 --> 00:45:55.285 Black and white faces with different words.
NOTE Confidence: 0.80394274

00:45:55.290 --> 00:45:58.394 So in the first Test you were pairing
NOTE Confidence: 0.80394274

00:45:58.394 --> 00:46:01.657 them with mood disorders and psychosis.
NOTE Confidence: 0.80394274

00:46:01.660 --> 00:46:03.935 The second task, compliance versus
NOTE Confidence: 0.80394274

00:46:03.935 --> 00:46:06.206 noncompliance, and the third test.
NOTE Confidence: 0.80394274

00:46:06.206 --> 00:46:08.476 We look at pharmacological outcomes,
NOTE Confidence: 0.80394274

00:46:08.480 --> 00:46:09.390 antidepressants and
NOTE Confidence: 0.80394274

00:46:09.390 --> 00:46:11.214 anti said antipsychotic medications.

NOTE Confidence: 0.80394274

00:46:11.214 --> 00:46:13.029 This involved around 300

NOTE Confidence: 0.80394274

00:46:13.030 --> 00:46:14.398 psychiatrists and medical

NOTE Confidence: 0.80394274

00:46:14.400 --> 00:46:15.762 students. Quite diverse,

NOTE Confidence: 0.80394274

00:46:15.762 --> 00:46:17.578 sample only a little.

NOTE Confidence: 0.80394274

00:46:17.580 --> 00:46:20.545 Over half of them were

NOTE Confidence: 0.80394274

00:46:20.545 --> 00:46:22.324 identified as white.

NOTE Confidence: 0.80394274

00:46:22.330 --> 00:46:23.699 Very good stratification of

NOTE Confidence: 0.80394274

00:46:23.700 --> 00:46:24.726 different training levels.

NOTE Confidence: 0.80394274

00:46:24.726 --> 00:46:27.312 Lots of medical students and roses.

NOTE Confidence: 0.80394274

00:46:27.312 --> 00:46:30.585 In the mean outcome was D scores,

NOTE Confidence: 0.80394274

00:46:30.585 --> 00:46:31.920 so the strength

NOTE Confidence: 0.84284675

00:46:31.920 --> 00:46:34.135 of Association between how fast

NOTE Confidence: 0.84284675

00:46:34.135 --> 00:46:37.245 and how many errors you made when

NOTE Confidence: 0.84284675

00:46:37.245 --> 00:46:39.468 comparing black versus white faces

NOTE Confidence: 0.84284675

00:46:39.468 --> 00:46:42.576 and the categories of words in this

NOTE Confidence: 0.84284675

00:46:42.580 --> 00:46:45.425 case can find versus non compliant
NOTE Confidence: 0.84284675

00:46:45.425 --> 00:46:47.950 psychotic versus mood disorder and
NOTE Confidence: 0.84284675

00:46:47.950 --> 00:46:50.080 antipsychotics versus antidepressants.
NOTE Confidence: 0.84284675

00:46:50.080 --> 00:46:52.612 And basically, participants who
NOTE Confidence: 0.84284675

00:46:52.612 --> 00:46:55.148 categorised white faces more
NOTE Confidence: 0.83124566

00:46:55.150 --> 00:46:58.320 quickly and with fewer errors
NOTE Confidence: 0.83124566

00:46:58.320 --> 00:47:00.860 when their parents have.
NOTE Confidence: 0.7204995

00:47:02.010 --> 00:47:03.696 Greater implicit pro
NOTE Confidence: 0.7204995

00:47:03.696 --> 00:47:06.506 white anti black bias so.
NOTE Confidence: 0.8436418266666666

00:47:09.350 --> 00:47:11.858 Associating whitefaces with compliance.
NOTE Confidence: 0.8436418266666666

00:47:11.858 --> 00:47:16.107 Or the other outcomes and this is
NOTE Confidence: 0.8436418266666666

00:47:16.107 --> 00:47:19.259 just a way of looking at the histogram
NOTE Confidence: 0.8436418266666666

00:47:19.259 --> 00:47:22.505 of the outcome and so we went when
NOTE Confidence: 0.8436418266666666

00:47:22.505 --> 00:47:25.290 we looked at this in the sample,
NOTE Confidence: 0.8436418266666666

00:47:25.290 --> 00:47:29.140 I think the first thing was it was striking,
NOTE Confidence: 0.8436418266666666

00:47:29.140 --> 00:47:31.425 but not particularly surprising was

NOTE Confidence: 0.8436418266666666
00:47:31.425 --> 00:47:33.253 that most psychiatric providers
NOTE Confidence: 0.8436418266666666
00:47:33.253 --> 00:47:34.589 associated faces of black
NOTE Confidence: 0.8540879
00:47:34.590 --> 00:47:35.844 individuals with psychosis
NOTE Confidence: 0.8540879
00:47:35.844 --> 00:47:37.516 noncompliance an antipsychotic words.
NOTE Confidence: 0.8540879
00:47:37.520 --> 00:47:40.870 And for any of these three outcomes, about
NOTE Confidence: 0.8540879
00:47:40.870 --> 00:47:43.350 40% of the sample had.
NOTE Confidence: 0.8540879
00:47:43.350 --> 00:47:46.380 Moderate are greater.
NOTE Confidence: 0.8540879
00:47:46.380 --> 00:47:50.750 Association of Black faces with.
NOTE Confidence: 0.8172017
00:47:50.750 --> 00:47:53.158 With psychosis or the OR the other outcomes,
NOTE Confidence: 0.8172017
00:47:53.160 --> 00:47:56.000 and if you looked in the other direction,
NOTE Confidence: 0.8172017
00:47:56.000 --> 00:47:59.248 so the. It was about 5%, so they
NOTE Confidence: 0.8816213
00:47:59.250 --> 00:48:00.750 were, so they are eight
NOTE Confidence: 0.8816213
00:48:00.750 --> 00:48:03.600 times more likely to have.
NOTE Confidence: 0.8816213
00:48:03.600 --> 00:48:05.850 Associations of these providers of
NOTE Confidence: 0.8816213
00:48:05.850 --> 00:48:07.650 black individuals with psychosis
NOTE Confidence: 0.8816213

00:48:07.650 --> 00:48:09.000 noncompliance and antipsychotics.
NOTE Confidence: 0.8816213

00:48:09.000 --> 00:48:11.250 Then we looked at the
NOTE Confidence: 0.8816213

00:48:11.250 --> 00:48:13.050 characteristics of our sample,
NOTE Confidence: 0.8816213

00:48:13.050 --> 00:48:15.750 and we looked at two things.
NOTE Confidence: 0.8816213

00:48:15.750 --> 00:48:21.210 Provider race and the Big Thing was that.
NOTE Confidence: 0.8816213

00:48:21.210 --> 00:48:24.500 Black providers did not show this same
NOTE Confidence: 0.8816213

00:48:24.500 --> 00:48:26.850 implicit bias as other populations,
NOTE Confidence: 0.8816213

00:48:26.850 --> 00:48:31.034 and then the other big thing was it seemed
NOTE Confidence: 0.8816213

00:48:31.034 --> 00:48:34.163 like your amount of implicit bias got
NOTE Confidence: 0.8816213

00:48:34.163 --> 00:48:37.655 worse as you increased level of training,
NOTE Confidence: 0.8816213

00:48:37.660 --> 00:48:40.480 and this was true for psychosis
NOTE Confidence: 0.8816213

00:48:40.480 --> 00:48:42.360 and antipsychotic medication words,
NOTE Confidence: 0.8816213

00:48:42.360 --> 00:48:43.770 but not necessarily,
NOTE Confidence: 0.8816213

00:48:43.770 --> 00:48:46.590 but was not true of compliance,
NOTE Confidence: 0.8816213

00:48:46.590 --> 00:48:50.326 so it seems almost like it's possible that
NOTE Confidence: 0.8816213

00:48:50.326 --> 00:48:53.318 these implicit biases get trained into.

NOTE Confidence: 0.8816213

00:48:53.320 --> 00:48:54.799 Your potential medical

NOTE Confidence: 0.81968516

00:48:54.800 --> 00:48:57.746 education was really striking, so the

NOTE Confidence: 0.81968516

00:48:57.750 --> 00:48:59.834 conclusions that psychiatrist and

NOTE Confidence: 0.81968516

00:48:59.834 --> 00:49:02.439 trainees have racial implicit biases

NOTE Confidence: 0.81968516

00:49:02.439 --> 00:49:04.140 related to psychiatric diagnosis,

NOTE Confidence: 0.81968516

00:49:04.140 --> 00:49:05.640 treatment, and compliance.

NOTE Confidence: 0.81968516

00:49:05.640 --> 00:49:08.140 Clinician race and training seem

NOTE Confidence: 0.81968516

00:49:08.140 --> 00:49:10.538 like they're predictive of these

NOTE Confidence: 0.81968516

00:49:10.540 --> 00:49:12.504 racial implicit bias ease.

NOTE Confidence: 0.81968516

00:49:12.504 --> 00:49:14.474 We have additional data

NOTE Confidence: 0.81968516

00:49:14.474 --> 00:49:17.428 that Victor is writing up at

NOTE Confidence: 0.81968516

00:49:17.430 --> 00:49:19.398 the moment, suggesting that

NOTE Confidence: 0.81968516

00:49:19.398 --> 00:49:21.366 greater Self reported childhood

NOTE Confidence: 0.81968516

00:49:21.366 --> 00:49:23.430 exposure to black intervention.

NOTE Confidence: 0.81968516

00:49:23.430 --> 00:49:25.370 Individuals is actually associated

NOTE Confidence: 0.81968516

00:49:25.370 --> 00:49:27.795 with decreasing racial implicit bias
NOTE Confidence: 0.81968516

00:49:27.795 --> 00:49:31.320 even after controlling for race.
NOTE Confidence: 0.81968516

00:49:31.320 --> 00:49:33.876 And then I think it's important.
NOTE Confidence: 0.81968516

00:49:33.880 --> 00:49:36.010 I'm also emphasized that although
NOTE Confidence: 0.81968516

00:49:36.010 --> 00:49:38.140 we just looked it implicit,
NOTE Confidence: 0.81968516

00:49:38.140 --> 00:49:41.311 bias in these studies that there are
NOTE Confidence: 0.81968516

00:49:41.311 --> 00:49:43.728 additional factors that I wish we
NOTE Confidence: 0.81968516

00:49:43.728 --> 00:49:46.003 looked at more in this study that
NOTE Confidence: 0.81968516

00:49:46.080 --> 00:49:48.984 are really important than that we're
NOTE Confidence: 0.81968516

00:49:48.984 --> 00:49:51.345 including in future studies that
NOTE Confidence: 0.81968516

00:49:51.345 --> 00:49:53.470 explicit racism import is important.
NOTE Confidence: 0.81968516

00:49:53.470 --> 00:49:55.178 Also, structural, systemic, race,
NOTE Confidence: 0.81968516

00:49:55.180 --> 00:49:57.728 racism are also really important factors.
NOTE Confidence: 0.85598266

00:49:57.730 --> 00:50:00.700 And then negative mental health care
NOTE Confidence: 0.85598266

00:50:00.700 --> 00:50:03.899 outcomes experienced by many black patients.
NOTE Confidence: 0.85598266

00:50:03.900 --> 00:50:06.546 If you're looking at what the

NOTE Confidence: 0.85598266

00:50:06.546 --> 00:50:09.630 application is, I think the first thing

NOTE Confidence: 0.84440094

00:50:09.630 --> 00:50:12.717 is just education education about racism and

NOTE Confidence: 0.84440094

00:50:12.720 --> 00:50:15.516 racial implicit bias is imperative to

NOTE Confidence: 0.84440094

00:50:15.516 --> 00:50:17.903 reducing racism and psychiatric care

NOTE Confidence: 0.84440094

00:50:17.903 --> 00:50:20.579 that it seems like racial diversity

NOTE Confidence: 0.84440094

00:50:20.579 --> 00:50:22.773 and psychiatric providers may mitigate

NOTE Confidence: 0.84440094

00:50:22.773 --> 00:50:25.510 some of these effects of implicit bias.

NOTE Confidence: 0.84440094

00:50:25.510 --> 00:50:29.086 And then I think the thing we're working

NOTE Confidence: 0.84440094

00:50:29.086 --> 00:50:32.128 on now is, are there similar racial,

NOTE Confidence: 0.84440094

00:50:32.128 --> 00:50:33.890 implicit, and explicit biases

NOTE Confidence: 0.874686593333334

00:50:33.890 --> 00:50:35.550 among. Child, mental health

NOTE Confidence: 0.874686593333334

00:50:35.550 --> 00:50:37.625 providers and then hopefully doing

NOTE Confidence: 0.8784723

00:50:37.630 --> 00:50:39.170 teachers and school workers.

NOTE Confidence: 0.8852773

00:50:42.370 --> 00:50:44.758 And then the next step for

NOTE Confidence: 0.8852773

00:50:44.758 --> 00:50:46.743 research is just really developing

NOTE Confidence: 0.8852773

00:50:46.743 --> 00:50:48.395 interventions and curriculums that
NOTE Confidence: 0.8852773

00:50:48.395 --> 00:50:50.385 reduce racism and implicit bias.
NOTE Confidence: 0.8852773

00:50:50.390 --> 00:50:52.175 Then I think another important
NOTE Confidence: 0.8852773

00:50:52.175 --> 00:50:53.960 thing is just measuring the
NOTE Confidence: 0.8852773

00:50:54.027 --> 00:50:55.999 efficacy of these interventions.
NOTE Confidence: 0.8852773

00:50:56.000 --> 00:50:59.010 So I think there going to be a lot of
NOTE Confidence: 0.8852773

00:50:59.091 --> 00:51:02.016 interventions that are coming along,
NOTE Confidence: 0.8852773

00:51:02.020 --> 00:51:04.799 but it would be really great to
NOTE Confidence: 0.8852773

00:51:04.799 --> 00:51:06.829 have better measures of racism,
NOTE Confidence: 0.8852773

00:51:06.830 --> 00:51:08.840 explicit racism and implicit racism.
NOTE Confidence: 0.8852773

00:51:08.840 --> 00:51:11.240 Look at how well this actually
NOTE Confidence: 0.8852773

00:51:11.240 --> 00:51:12.928 improved outcomes within provided.
NOTE Confidence: 0.8852773

00:51:12.928 --> 00:51:15.318 Within systems and then the
NOTE Confidence: 0.8852773

00:51:15.320 --> 00:51:18.852 last thing is to look at kids.
NOTE Confidence: 0.8852773

00:51:18.852 --> 00:51:21.917 And so here is the.
NOTE Confidence: 0.8852773

00:51:21.920 --> 00:51:24.848 Applied for the current study we're doing.

NOTE Confidence: 0.8852773

00:51:24.850 --> 00:51:26.870 Looking at external Ising behaviors

NOTE Confidence: 0.8852773

00:51:26.870 --> 00:51:29.727 and and racing kids and just trying

NOTE Confidence: 0.8852773

00:51:29.727 --> 00:51:32.408 to get a similar sample in child

NOTE Confidence: 0.8852773

00:51:32.408 --> 00:51:34.675 psychiatric providers and other mental

NOTE Confidence: 0.8852773

00:51:34.675 --> 00:51:37.387 health professionals to look at whether

NOTE Confidence: 0.8852773

00:51:37.390 --> 00:51:41.548 they're similar biases in that population.

NOTE Confidence: 0.8852773

00:51:41.550 --> 00:51:42.043 Alright,

NOTE Confidence: 0.8852773

00:51:42.043 --> 00:51:44.010 take home points 80.

NOTE Confidence: 0.8852773

00:51:44.010 --> 00:51:46.469 HD causes significant impairments for

NOTE Confidence: 0.8852773

00:51:46.470 --> 00:51:48.438 kids and adults pharmacotherapies

NOTE Confidence: 0.8852773

00:51:48.440 --> 00:51:50.900 most effective treatment for core

NOTE Confidence: 0.8852773

00:51:50.900 --> 00:51:53.360 ADHD symptoms across the lifespan.

NOTE Confidence: 0.8852773

00:51:53.360 --> 00:51:55.945 Higher doses of stimulant medications

NOTE Confidence: 0.8852773

00:51:55.945 --> 00:51:59.330 have greater efficacy and there actually

NOTE Confidence: 0.8852773

00:51:59.330 --> 00:52:02.210 associated with improved acceptability.

NOTE Confidence: 0.8852773

00:52:02.210 --> 00:52:04.014 They mitigate about against
NOTE Confidence: 0.8852773

00:52:04.014 --> 00:52:06.269 many poor outcomes in children,
NOTE Confidence: 0.8852773

00:52:06.270 --> 00:52:08.730 and then I think it's important
NOTE Confidence: 0.8852773

00:52:08.730 --> 00:52:10.952 in any evidence based presentation
NOTE Confidence: 0.8852773

00:52:10.952 --> 00:52:13.940 about treatment of ADHD in kids.
NOTE Confidence: 0.8852773

00:52:13.940 --> 00:52:16.957 Just to mention that there is racial
NOTE Confidence: 0.8852773

00:52:16.957 --> 00:52:19.782 in equities are really profound factor
NOTE Confidence: 0.8852773

00:52:19.782 --> 00:52:23.149 and in the current care and outcome
NOTE Confidence: 0.8852773

00:52:23.237 --> 00:52:26.198 over Dalton with ADHD and then this
NOTE Confidence: 0.8852773

00:52:26.198 --> 00:52:28.835 goes along side of any research.
NOTE Confidence: 0.8852773

00:52:28.835 --> 00:52:30.200 Optimizing stimulant medications
NOTE Confidence: 0.8852773

00:52:30.200 --> 00:52:32.960 is also to improve the outcomes.
NOTE Confidence: 0.8852773

00:52:32.960 --> 00:52:36.327 Of all of our patients with ADHD.
NOTE Confidence: 0.8852773

00:52:36.330 --> 00:52:38.460 Spectar, particularly the black ones,
NOTE Confidence: 0.8852773

00:52:38.460 --> 00:52:39.944 and so thank you,
NOTE Confidence: 0.8852773

00:52:39.944 --> 00:52:43.150 I will leave it open for questions.

NOTE Confidence: 0.88406396

00:52:54.670 --> 00:52:58.140 There were two questions in the chat.

NOTE Confidence: 0.7095535

00:53:00.810 --> 00:53:02.260 Any of the chatters want to?

NOTE Confidence: 0.89297557

00:53:05.770 --> 00:53:09.130 Ask your question, I think. Justin.

NOTE Confidence: 0.7051094

00:53:10.570 --> 00:53:12.780 Jose, did you raise your hand? Go for it.

NOTE Confidence: 0.86973363

00:53:15.420 --> 00:53:16.900 Thank you doctor black.

NOTE Confidence: 0.86973363

00:53:16.900 --> 00:53:19.120 Great talk. I had a question

NOTE Confidence: 0.86973363

00:53:19.120 --> 00:53:21.340 specifically about the testing for ADHD.

NOTE Confidence: 0.86973363

00:53:21.340 --> 00:53:23.930 I do know that I don't know

NOTE Confidence: 0.86973363

00:53:23.930 --> 00:53:25.780 if you're familiar with Robert

NOTE Confidence: 0.86973363

00:53:25.780 --> 00:53:28.000 Williams and how he showed that

NOTE Confidence: 0.86973363

00:53:28.000 --> 00:53:30.590 some of the IQ tests were also,

NOTE Confidence: 0.86973363

00:53:30.590 --> 00:53:32.440 you know, they scored differently

NOTE Confidence: 0.86973363

00:53:32.440 --> 00:53:34.290 for Caucasian or white patients

NOTE Confidence: 0.86973363

00:53:34.290 --> 00:53:36.552 versus black children in particular.

NOTE Confidence: 0.86973363

00:53:36.552 --> 00:53:38.545 Have you seen anything like

NOTE Confidence: 0.86973363

00:53:38.545 --> 00:53:40.675 that with the ADHD testing like
NOTE Confidence: 0.75379405

00:53:40.680 --> 00:53:43.600 the Vanderbilt or. They the the
NOTE Confidence: 0.75379405

00:53:43.600 --> 00:53:46.370 ADHD four that you know that it
NOTE Confidence: 0.75379405

00:53:46.370 --> 00:53:48.748 also shows any racial bias. So
NOTE Confidence: 0.7771537

00:53:48.750 --> 00:53:52.308 I'm I'm by no means an expert in this.
NOTE Confidence: 0.7771537

00:53:52.310 --> 00:53:55.874 I sort of came about it in a data
NOTE Confidence: 0.7771537

00:53:55.874 --> 00:53:59.418 driven way after blocker muted.
NOTE Confidence: 0.7771537

00:53:59.420 --> 00:54:01.440 You did know you're good, you're good, OK?
NOTE Confidence: 0.9078677

00:54:04.870 --> 00:54:10.990 I think there's a lot of complexities too.
NOTE Confidence: 0.9078677

00:54:10.990 --> 00:54:12.786 The diagnosis and treatment of
NOTE Confidence: 0.9078677

00:54:12.786 --> 00:54:14.576 ADHD by race and ethnicity,
NOTE Confidence: 0.9078677

00:54:14.580 --> 00:54:17.444 and I don't think it's a simple story.
NOTE Confidence: 0.9078677

00:54:17.450 --> 00:54:19.442 I think they're probably different cut
NOTE Confidence: 0.9078677

00:54:19.442 --> 00:54:21.400 points on assessments and informants.
NOTE Confidence: 0.9078677

00:54:21.400 --> 00:54:22.836 It affects the outcome.
NOTE Confidence: 0.9078677

00:54:22.836 --> 00:54:25.350 I don't know the literature that well.

NOTE Confidence: 0.9078677

00:54:25.350 --> 00:54:28.221 I would also say it's I think I've

NOTE Confidence: 0.9078677

00:54:28.221 --> 00:54:30.712 it's a great under simplification

NOTE Confidence: 0.9078677

00:54:30.712 --> 00:54:33.377 of what I've said regarding.

NOTE Confidence: 0.9078677

00:54:33.380 --> 00:54:35.975 I think it would be too much of

NOTE Confidence: 0.9078677

00:54:35.975 --> 00:54:38.540 a take home message just to say.

NOTE Confidence: 0.9078677

00:54:38.540 --> 00:54:41.006 You know Bipac children or underdiagnosed

NOTE Confidence: 0.9078677

00:54:41.010 --> 00:54:43.880 or treated for ADHD that clearly the

NOTE Confidence: 0.9078677

00:54:43.880 --> 00:54:46.712 assessment and treatment of in all this

NOTE Confidence: 0.9078677

00:54:46.712 --> 00:54:50.460 is going to be much more complex than that.

NOTE Confidence: 0.9078677

00:54:50.460 --> 00:54:54.184 I also really worried about the proper

NOTE Confidence: 0.9078677

00:54:54.184 --> 00:54:56.750 assessment of comorbid disorders.

NOTE Confidence: 0.9078677

00:54:56.750 --> 00:54:57.542 You know I,

NOTE Confidence: 0.9078677

00:54:57.542 --> 00:55:00.153 I just worry that this is more of a

NOTE Confidence: 0.9078677

00:55:00.153 --> 00:55:02.596 circle surrogate for less mental health care,

NOTE Confidence: 0.9078677

00:55:02.600 --> 00:55:03.832 psychiatric care in general,

NOTE Confidence: 0.9078677

00:55:03.832 --> 00:55:06.300 and that it's not only that the kids
NOTE Confidence: 0.9078677

00:55:06.300 --> 00:55:08.144 are being left diagnosed with ADHD,
NOTE Confidence: 0.9078677

00:55:08.144 --> 00:55:09.684 but that we're also missing
NOTE Confidence: 0.9078677

00:55:09.684 --> 00:55:10.608 other other factors.
NOTE Confidence: 0.9078677

00:55:10.610 --> 00:55:12.598 And and I think that was one
NOTE Confidence: 0.9078677

00:55:12.598 --> 00:55:14.309 thing that was really hard.
NOTE Confidence: 0.9078677

00:55:14.310 --> 00:55:15.507 And, you know,
NOTE Confidence: 0.9078677

00:55:15.507 --> 00:55:17.502 I completely ducked the question
NOTE Confidence: 0.9078677

00:55:17.502 --> 00:55:20.114 of how I'm going to deal with
NOTE Confidence: 0.9078677

00:55:20.114 --> 00:55:22.300 this in the family other than.
NOTE Confidence: 0.9078677

00:55:22.300 --> 00:55:24.450 Affirming that the Moms concern
NOTE Confidence: 0.9078677

00:55:24.450 --> 00:55:26.170 is probably well validated.
NOTE Confidence: 0.8959528

00:55:28.260 --> 00:55:32.900 But I don't know. I think there's a lot
NOTE Confidence: 0.8959528

00:55:32.900 --> 00:55:35.077 of research to be done in the area,
NOTE Confidence: 0.8959528

00:55:35.080 --> 00:55:37.336 and what I can say is it's probably
NOTE Confidence: 0.8959528

00:55:37.336 --> 00:55:39.708 a fairly large effect and I I don't.

NOTE Confidence: 0.8959528

00:55:39.710 --> 00:55:41.958 I don't pretend to understand how it all

NOTE Confidence: 0.8959528

00:55:41.958 --> 00:55:44.038 works and how it should be measured,

NOTE Confidence: 0.8959528

00:55:44.040 --> 00:55:46.352 but I think that's something that our our

NOTE Confidence: 0.8959528

00:55:46.352 --> 00:55:48.670 field and really needs to start focusing on,

NOTE Confidence: 0.8959528

00:55:48.670 --> 00:55:50.686 'cause at least in the data driven

NOTE Confidence: 0.8959528

00:55:50.686 --> 00:55:52.714 approaches, it's as important is how well

NOTE Confidence: 0.8959528

00:55:52.714 --> 00:55:54.672 you respond to stimulants, which, again,

NOTE Confidence: 0.8959528

00:55:54.672 --> 00:55:57.078 stimulants work better than any other

NOTE Confidence: 0.8959528

00:55:57.078 --> 00:55:59.569 medication I know of for any condition.