

WEBVTT

NOTE duration:"02:37:19"

NOTE recognizability:0.852

NOTE language:en-us

NOTE Confidence: 0.949781343333333

00:00:00.000 --> 00:00:01.488 So welcome everyone.

NOTE Confidence: 0.914110028

00:00:02.690 --> 00:00:04.240 Mom, thank you for coming.

NOTE Confidence: 0.914110028

00:00:04.240 --> 00:00:05.209 We'll get started.

NOTE Confidence: 0.914110028

00:00:05.209 --> 00:00:08.340 For those of you who are new to our

NOTE Confidence: 0.914110028

00:00:08.340 --> 00:00:10.734 annual associates event I'm Linda Mays

NOTE Confidence: 0.914110028

00:00:10.734 --> 00:00:13.386 and director of the Child Study Center.

NOTE Confidence: 0.914110028

00:00:13.390 --> 00:00:15.190 And for those of you who have joined

NOTE Confidence: 0.914110028

00:00:15.190 --> 00:00:16.967 us yearly with this coming together,

NOTE Confidence: 0.914110028

00:00:16.970 --> 00:00:17.634 welcome back.

NOTE Confidence: 0.914110028

00:00:17.634 --> 00:00:19.958 We're really looking forward to the time

NOTE Confidence: 0.914110028

00:00:19.958 --> 00:00:22.206 when we can greet you again in person,

NOTE Confidence: 0.914110028

00:00:22.210 --> 00:00:24.858 but but it's just very nice to have

NOTE Confidence: 0.914110028

00:00:24.858 --> 00:00:27.488 this way of getting back together.

NOTE Confidence: 0.914110028

00:00:27.490 --> 00:00:29.150 I'll begin with just a  
NOTE Confidence: 0.914110028  
00:00:29.150 --> 00:00:30.146 few introductory remarks,  
NOTE Confidence: 0.914110028  
00:00:30.150 --> 00:00:33.110 and then we'll go right into the program.  
NOTE Confidence: 0.914110028  
00:00:33.110 --> 00:00:34.586 Here we are.  
NOTE Confidence: 0.914110028  
00:00:34.586 --> 00:00:38.325 We are 603 days since the beginning  
NOTE Confidence: 0.914110028  
00:00:38.325 --> 00:00:41.432 of our pandemic journey and are  
NOTE Confidence: 0.914110028  
00:00:41.432 --> 00:00:43.687 rapidly adapting to this forever.  
NOTE Confidence: 0.914110028  
00:00:43.690 --> 00:00:46.042 It seems like really,  
NOTE Confidence: 0.914110028  
00:00:46.042 --> 00:00:49.570 truly forever changing and changed world.  
NOTE Confidence: 0.914110028  
00:00:49.570 --> 00:00:51.621 We're all very grateful for all of  
NOTE Confidence: 0.914110028  
00:00:51.621 --> 00:00:53.279 your continued support of the center.  
NOTE Confidence: 0.914110028  
00:00:53.280 --> 00:00:54.744 You're staying with us.  
NOTE Confidence: 0.914110028  
00:00:54.744 --> 00:00:57.400 You're continuing to give us your ideas,  
NOTE Confidence: 0.914110028  
00:00:57.400 --> 00:00:58.432 your encouragement,  
NOTE Confidence: 0.914110028  
00:00:58.432 --> 00:01:00.496 and your financial support.  
NOTE Confidence: 0.914110028  
00:01:00.500 --> 00:01:02.120 We are actually are coming

NOTE Confidence: 0.914110028

00:01:02.120 --> 00:01:03.416 back and coming back.

NOTE Confidence: 0.914110028

00:01:03.420 --> 00:01:07.332 By that I mean in person we now have

NOTE Confidence: 0.914110028

00:01:07.332 --> 00:01:09.936 over 250 families who are receiving

NOTE Confidence: 0.914110028

00:01:09.936 --> 00:01:12.388 services daily in person and we're

NOTE Confidence: 0.914110028

00:01:12.388 --> 00:01:14.692 continuing though to also see almost

NOTE Confidence: 0.914110028

00:01:14.692 --> 00:01:17.600 half of the families via Tele health.

NOTE Confidence: 0.914110028

00:01:17.600 --> 00:01:19.460 Our research programs are back.

NOTE Confidence: 0.914110028

00:01:19.460 --> 00:01:22.454 Our fellows are in person and then,

NOTE Confidence: 0.914110028

00:01:22.454 --> 00:01:24.603 like every other service in the country,

NOTE Confidence: 0.914110028

00:01:24.610 --> 00:01:27.290 we are experiencing a dramatic

NOTE Confidence: 0.914110028

00:01:27.290 --> 00:01:28.898 behavioral health surge.

NOTE Confidence: 0.914110028

00:01:28.900 --> 00:01:30.365 With doubling in many ways

NOTE Confidence: 0.914110028

00:01:30.365 --> 00:01:31.830 and doubling in many places,

NOTE Confidence: 0.914110028

00:01:31.830 --> 00:01:34.110 the number of our referrals.

NOTE Confidence: 0.914110028

00:01:34.110 --> 00:01:36.140 Children with behavioral health needs

NOTE Confidence: 0.914110028

00:01:36.140 --> 00:01:38.170 are struggling and they're needing  
NOTE Confidence: 0.914110028

00:01:38.235 --> 00:01:40.100 longer and more intense services.  
NOTE Confidence: 0.914110028

00:01:40.100 --> 00:01:42.628 It is truly a moment not only in  
NOTE Confidence: 0.914110028

00:01:42.628 --> 00:01:44.288 the Child Study Center's history,  
NOTE Confidence: 0.914110028

00:01:44.288 --> 00:01:46.276 but in the history for our country.  
NOTE Confidence: 0.914110028

00:01:46.280 --> 00:01:47.748 For child behavioral health.  
NOTE Confidence: 0.914110028

00:01:47.748 --> 00:01:51.335 And that will be a theme that you will  
NOTE Confidence: 0.914110028

00:01:51.335 --> 00:01:53.963 continue to hear throughout this afternoon.  
NOTE Confidence: 0.914110028

00:01:53.970 --> 00:01:56.315 For the afternoon we put together a  
NOTE Confidence: 0.914110028

00:01:56.315 --> 00:01:58.909 series of short presentations tastings.  
NOTE Confidence: 0.914110028

00:01:58.910 --> 00:02:00.814 We might call them to give you a  
NOTE Confidence: 0.914110028

00:02:00.814 --> 00:02:02.709 range and breadth of our research,  
NOTE Confidence: 0.914110028

00:02:02.710 --> 00:02:04.114 our clinical services,  
NOTE Confidence: 0.914110028

00:02:04.114 --> 00:02:05.986 and the different developmental  
NOTE Confidence: 0.914110028

00:02:05.986 --> 00:02:08.746 pathways of our faculty and fellows  
NOTE Confidence: 0.914110028

00:02:08.746 --> 00:02:11.314 that reflect our commitment to education

NOTE Confidence: 0.914110028

00:02:11.314 --> 00:02:13.820 and mentoring across the lifespan.

NOTE Confidence: 0.914110028

00:02:13.820 --> 00:02:15.578 You are going to hear examples

NOTE Confidence: 0.914110028

00:02:15.578 --> 00:02:17.445 of our research that begins with

NOTE Confidence: 0.914110028

00:02:17.445 --> 00:02:19.341 work based in our patients stories

NOTE Confidence: 0.914110028

00:02:19.341 --> 00:02:21.128 and goes to clinical trials,

NOTE Confidence: 0.914110028

00:02:21.130 --> 00:02:23.800 addresses the impact of new treatments.

NOTE Confidence: 0.914110028

00:02:23.800 --> 00:02:26.270 Studies using zebrafish to model

NOTE Confidence: 0.914110028

00:02:26.270 --> 00:02:28.246 key genetic mutations related

NOTE Confidence: 0.914110028

00:02:28.246 --> 00:02:30.640 to developmental disorders.

NOTE Confidence: 0.914110028

00:02:30.640 --> 00:02:32.312 Developing pluripotent stem cells

NOTE Confidence: 0.914110028

00:02:32.312 --> 00:02:34.820 to create brain organoids and model

NOTE Confidence: 0.914110028

00:02:34.888 --> 00:02:37.213 disruptions in brain development in

NOTE Confidence: 0.914110028

00:02:37.213 --> 00:02:38.554 childhood. Psychiatric disorders.

NOTE Confidence: 0.914110028

00:02:38.554 --> 00:02:41.176 The range of research is just

NOTE Confidence: 0.914110028

00:02:41.176 --> 00:02:43.257 remarkable here in the center

NOTE Confidence: 0.914110028

00:02:43.257 --> 00:02:45.147 and in these short presentations.  
NOTE Confidence: 0.914110028

00:02:45.150 --> 00:02:47.614 We really hope you get a sense of  
NOTE Confidence: 0.914110028

00:02:47.614 --> 00:02:50.108 not only that breath but also the  
NOTE Confidence: 0.914110028

00:02:50.108 --> 00:02:53.449 excitement for all of us as we work together.  
NOTE Confidence: 0.914110028

00:02:53.450 --> 00:02:55.154 We're also going to highlight in  
NOTE Confidence: 0.914110028

00:02:55.154 --> 00:02:56.822 greater depth than in we've had  
NOTE Confidence: 0.914110028

00:02:56.822 --> 00:02:57.770 done in the past.  
NOTE Confidence: 0.914110028

00:02:57.770 --> 00:03:00.295 Our clinical programs and the  
NOTE Confidence: 0.914110028

00:03:00.295 --> 00:03:02.315 dedication of our clinicians  
NOTE Confidence: 0.914110028

00:03:02.320 --> 00:03:03.990 seeing more and more children.  
NOTE Confidence: 0.914110028

00:03:03.990 --> 00:03:05.106 As I mentioned,  
NOTE Confidence: 0.914110028

00:03:05.106 --> 00:03:07.338 who need more and more services?  
NOTE Confidence: 0.914110028

00:03:07.340 --> 00:03:10.602 And now that our cutting edge treatments  
NOTE Confidence: 0.914110028

00:03:10.602 --> 00:03:13.478 actually reached now over 3000 families  
NOTE Confidence: 0.914110028

00:03:13.478 --> 00:03:16.280 annually and that number is growing.  
NOTE Confidence: 0.914110028

00:03:16.280 --> 00:03:17.920 And then you'll hear stories

NOTE Confidence: 0.914110028

00:03:17.920 --> 00:03:19.560 from our faculty and fellows

NOTE Confidence: 0.909956192380952

00:03:19.621 --> 00:03:21.201 about how they develop their

NOTE Confidence: 0.909956192380952

00:03:21.201 --> 00:03:23.250 careers at the CHILD Study Center.

NOTE Confidence: 0.909956192380952

00:03:23.250 --> 00:03:25.665 And our commitment to mentorship

NOTE Confidence: 0.909956192380952

00:03:25.665 --> 00:03:28.080 and to helping every individual

NOTE Confidence: 0.909956192380952

00:03:28.080 --> 00:03:31.524 find the path where they can excel.

NOTE Confidence: 0.909956192380952

00:03:31.530 --> 00:03:34.068 So before turning over to our team and it's

NOTE Confidence: 0.909956192380952

00:03:34.068 --> 00:03:36.554 really the team that I want you to hear from.

NOTE Confidence: 0.909956192380952

00:03:36.560 --> 00:03:38.485 I want to encourage you to listen

NOTE Confidence: 0.909956192380952

00:03:38.485 --> 00:03:40.542 for four themes that are going to

NOTE Confidence: 0.909956192380952

00:03:40.542 --> 00:03:42.294 cut across each of these sessions.

NOTE Confidence: 0.909956192380952

00:03:42.300 --> 00:03:45.828 Each of these three blocks of presentations.

NOTE Confidence: 0.909956192380952

00:03:45.830 --> 00:03:48.250 First, patients are at the

NOTE Confidence: 0.909956192380952

00:03:48.250 --> 00:03:50.186 center of our work.

NOTE Confidence: 0.909956192380952

00:03:50.190 --> 00:03:51.674 Each of our researchers,

NOTE Confidence: 0.909956192380952

00:03:51.674 --> 00:03:52.416 the clinicians,  
NOTE Confidence: 0.909956192380952

00:03:52.420 --> 00:03:54.724 the developmental stories that we they  
NOTE Confidence: 0.909956192380952

00:03:54.724 --> 00:03:57.130 have for improving care for children,  
NOTE Confidence: 0.909956192380952

00:03:57.130 --> 00:03:58.918 is that really at the core.  
NOTE Confidence: 0.909956192380952

00:03:58.920 --> 00:04:00.975 It's what brings meaning and  
NOTE Confidence: 0.909956192380952

00:04:00.975 --> 00:04:03.530 purpose to all of our work.  
NOTE Confidence: 0.909956192380952

00:04:03.530 --> 00:04:05.738 Whether it's in the lab and the clinic,  
NOTE Confidence: 0.909956192380952

00:04:05.740 --> 00:04:08.150 the community we are guided  
NOTE Confidence: 0.909956192380952

00:04:08.150 --> 00:04:10.078 by what families need.  
NOTE Confidence: 0.909956192380952

00:04:10.080 --> 00:04:12.528 And those needs have never been  
NOTE Confidence: 0.909956192380952

00:04:12.528 --> 00:04:14.160 greater with this pandemic.  
NOTE Confidence: 0.909956192380952

00:04:14.160 --> 00:04:15.640 Second is we're committed  
NOTE Confidence: 0.909956192380952

00:04:15.640 --> 00:04:17.120 to education and training.  
NOTE Confidence: 0.909956192380952

00:04:17.120 --> 00:04:19.094 We listen for how often I ask  
NOTE Confidence: 0.909956192380952

00:04:19.094 --> 00:04:21.185 you to listen for how often  
NOTE Confidence: 0.909956192380952

00:04:21.185 --> 00:04:22.757 we involve medical students.



NOTE Confidence: 0.909956192380952

00:04:22.760 --> 00:04:24.384 Undergraduates in our work.

NOTE Confidence: 0.909956192380952

00:04:24.384 --> 00:04:26.820 How often are fellows and faculties

NOTE Confidence: 0.909956192380952

00:04:26.886 --> 00:04:29.822 found their path into this work in their

NOTE Confidence: 0.909956192380952

00:04:29.822 --> 00:04:31.979 undergraduate or medical school years?

NOTE Confidence: 0.860925755

00:04:33.010 --> 00:04:34.118 And actually, how often

NOTE Confidence: 0.932552175454546

00:04:34.130 --> 00:04:36.722 we think about clinical work as

NOTE Confidence: 0.932552175454546

00:04:36.722 --> 00:04:39.013 passing along skills and knowledge

NOTE Confidence: 0.932552175454546

00:04:39.013 --> 00:04:41.887 to families to help them continue

NOTE Confidence: 0.932552175454546

00:04:41.887 --> 00:04:44.559 their journey with their children.

NOTE Confidence: 0.932552175454546

00:04:44.560 --> 00:04:46.342 The Third Point is we actually

NOTE Confidence: 0.932552175454546

00:04:46.342 --> 00:04:47.930 strive for a virtuous cycle,

NOTE Confidence: 0.932552175454546

00:04:47.930 --> 00:04:50.258 and what I mean by a virtuous cycle

NOTE Confidence: 0.932552175454546

00:04:50.258 --> 00:04:52.482 is bringing our discoveries in the lab

NOTE Confidence: 0.932552175454546

00:04:52.482 --> 00:04:55.049 and in the research into the clinic,

NOTE Confidence: 0.932552175454546

00:04:55.049 --> 00:04:56.348 and vice versa.

NOTE Confidence: 0.932552175454546

00:04:56.350 --> 00:04:59.990 Having the clinic in for my research.  
NOTE Confidence: 0.932552175454546

00:04:59.990 --> 00:05:01.745 It it's it's often really  
NOTE Confidence: 0.932552175454546

00:05:01.745 --> 00:05:03.149 challenging to translate across  
NOTE Confidence: 0.932552175454546

00:05:03.149 --> 00:05:04.669 research in clinical practice.  
NOTE Confidence: 0.932552175454546

00:05:04.670 --> 00:05:07.630 It requires a lot of work about different  
NOTE Confidence: 0.932552175454546

00:05:07.630 --> 00:05:10.010 domains of discourse and talking,  
NOTE Confidence: 0.932552175454546

00:05:10.010 --> 00:05:12.085 but we are extraordinarily committed  
NOTE Confidence: 0.932552175454546

00:05:12.085 --> 00:05:13.745 to this constant translation,  
NOTE Confidence: 0.932552175454546

00:05:13.750 --> 00:05:16.278 and we're trying regularly  
NOTE Confidence: 0.932552175454546

00:05:16.278 --> 00:05:18.806 to make that happen.  
NOTE Confidence: 0.932552175454546

00:05:18.810 --> 00:05:23.018 And 4th the 4th theme to listen for.  
NOTE Confidence: 0.932552175454546

00:05:23.020 --> 00:05:25.072 Is it that if patients are  
NOTE Confidence: 0.932552175454546

00:05:25.072 --> 00:05:27.239 at the center of our work,  
NOTE Confidence: 0.932552175454546

00:05:27.240 --> 00:05:30.055 everyone that you will hear  
NOTE Confidence: 0.932552175454546

00:05:30.055 --> 00:05:31.744 also regularly evidences?  
NOTE Confidence: 0.932552175454546

00:05:31.750 --> 00:05:34.360 Their humanity and how they

NOTE Confidence: 0.932552175454546  
00:05:34.360 --> 00:05:35.926 treat their teams,  
NOTE Confidence: 0.932552175454546  
00:05:35.930 --> 00:05:38.618 how they ask their questions and how  
NOTE Confidence: 0.932552175454546  
00:05:38.618 --> 00:05:41.769 they live and practice by their values.  
NOTE Confidence: 0.932552175454546  
00:05:41.770 --> 00:05:44.346 This pandemic has been a time of  
NOTE Confidence: 0.932552175454546  
00:05:44.346 --> 00:05:46.070 remarkable change for so many,  
NOTE Confidence: 0.932552175454546  
00:05:46.070 --> 00:05:49.076 but it is also been a time that has  
NOTE Confidence: 0.932552175454546  
00:05:49.076 --> 00:05:51.587 brought brought both brought forth.  
NOTE Confidence: 0.932552175454546  
00:05:51.590 --> 00:05:54.245 The values that we all want to live by  
NOTE Confidence: 0.932552175454546  
00:05:54.245 --> 00:05:56.822 and tested those values as resources  
NOTE Confidence: 0.932552175454546  
00:05:56.822 --> 00:05:59.460 have become restricted in many ways.  
NOTE Confidence: 0.932552175454546  
00:05:59.460 --> 00:06:02.150 People have become very stressed.  
NOTE Confidence: 0.932552175454546  
00:06:02.150 --> 00:06:04.115 But I actually couldn't be  
NOTE Confidence: 0.932552175454546  
00:06:04.115 --> 00:06:05.930 prouder of all of our community,  
NOTE Confidence: 0.932552175454546  
00:06:05.930 --> 00:06:08.738 not just the people you were here from today.  
NOTE Confidence: 0.932552175454546  
00:06:08.740 --> 00:06:10.918 But if everyone in our community,  
NOTE Confidence: 0.932552175454546

00:06:10.920 --> 00:06:12.644 the courage that everyone  
NOTE Confidence: 0.932552175454546

00:06:12.644 --> 00:06:14.799 has shown in this pandemic.  
NOTE Confidence: 0.932552175454546

00:06:14.800 --> 00:06:16.279 Their willing willingness  
NOTE Confidence: 0.932552175454546

00:06:16.279 --> 00:06:18.744 to go the extra mile.  
NOTE Confidence: 0.932552175454546

00:06:18.750 --> 00:06:21.298 To help each other and to help  
NOTE Confidence: 0.932552175454546

00:06:21.298 --> 00:06:23.290 so many families and the pride  
NOTE Confidence: 0.932552175454546

00:06:23.290 --> 00:06:25.090 they take in discovery and care.  
NOTE Confidence: 0.932552175454546

00:06:25.090 --> 00:06:27.290 Which is why we actually we  
NOTE Confidence: 0.932552175454546

00:06:27.290 --> 00:06:28.990 actually have as our tagline.  
NOTE Confidence: 0.932552175454546

00:06:28.990 --> 00:06:31.365 For the Child Study Center  
NOTE Confidence: 0.932552175454546

00:06:31.365 --> 00:06:33.265 where Discovery inspires care.  
NOTE Confidence: 0.932552175454546

00:06:33.270 --> 00:06:35.375 I'm really honored to present  
NOTE Confidence: 0.932552175454546

00:06:35.375 --> 00:06:37.059 them to you today,  
NOTE Confidence: 0.932552175454546

00:06:37.060 --> 00:06:38.788 and I'm honored to be a  
NOTE Confidence: 0.932552175454546

00:06:38.788 --> 00:06:39.940 part of this community,  
NOTE Confidence: 0.932552175454546

00:06:39.940 --> 00:06:41.504 and especially after many

NOTE Confidence: 0.932552175454546  
00:06:41.504 --> 00:06:43.068 years in this community,  
NOTE Confidence: 0.932552175454546  
00:06:43.070 --> 00:06:46.548 but especially in these last 603 days.  
NOTE Confidence: 0.932552175454546  
00:06:46.548 --> 00:06:50.266 And I hope that as you listen that you'll  
NOTE Confidence: 0.932552175454546  
00:06:50.266 --> 00:06:53.812 be as inspired as I am on every day.  
NOTE Confidence: 0.932552175454546  
00:06:53.820 --> 00:06:54.621 One other point,  
NOTE Confidence: 0.932552175454546  
00:06:54.621 --> 00:06:56.946 before I turn it over to my colleagues  
NOTE Confidence: 0.932552175454546  
00:06:56.946 --> 00:06:58.916 to encourage you to explore,  
NOTE Confidence: 0.932552175454546  
00:06:58.920 --> 00:07:01.104 we've put some additional short talks  
NOTE Confidence: 0.932552175454546  
00:07:01.104 --> 00:07:03.359 and posters online for you to view.  
NOTE Confidence: 0.932552175454546  
00:07:03.360 --> 00:07:04.269 As you know,  
NOTE Confidence: 0.932552175454546  
00:07:04.269 --> 00:07:06.390 if you've come to these events before,  
NOTE Confidence: 0.932552175454546  
00:07:06.390 --> 00:07:09.250 we always have much more to say than we  
NOTE Confidence: 0.932552175454546  
00:07:09.250 --> 00:07:12.060 can ever possibly say in the time we have,  
NOTE Confidence: 0.932552175454546  
00:07:12.060 --> 00:07:13.890 and so we are putting more  
NOTE Confidence: 0.932552175454546  
00:07:13.890 --> 00:07:15.739 online for you to look at.  
NOTE Confidence: 0.932552175454546

00:07:15.740 --> 00:07:17.430 And as you have time,  
NOTE Confidence: 0.932552175454546

00:07:17.430 --> 00:07:19.584 we hope that you might continue  
NOTE Confidence: 0.932552175454546

00:07:19.584 --> 00:07:21.562 to the continue the intellectual  
NOTE Confidence: 0.932552175454546

00:07:21.562 --> 00:07:23.907 feast and the caring feast.  
NOTE Confidence: 0.932552175454546

00:07:23.910 --> 00:07:26.535 That we're presenting to you in these  
NOTE Confidence: 0.932552175454546

00:07:26.535 --> 00:07:29.208 next in these next hours together.  
NOTE Confidence: 0.932552175454546

00:07:29.210 --> 00:07:31.380 Let us know what you think when  
NOTE Confidence: 0.932552175454546

00:07:31.380 --> 00:07:33.436 you look online and will also  
NOTE Confidence: 0.932552175454546

00:07:33.436 --> 00:07:35.548 hope that you'll send us questions  
NOTE Confidence: 0.932552175454546

00:07:35.550 --> 00:07:37.716 and then just one very pragmatic  
NOTE Confidence: 0.932552175454546

00:07:37.716 --> 00:07:40.489 issue is that as we as we present,  
NOTE Confidence: 0.932552175454546

00:07:40.490 --> 00:07:42.500 we're going to encourage questions  
NOTE Confidence: 0.932552175454546

00:07:42.500 --> 00:07:44.510 after in the research section  
NOTE Confidence: 0.932552175454546

00:07:44.573 --> 00:07:46.079 after each presentation.  
NOTE Confidence: 0.932552175454546

00:07:46.080 --> 00:07:48.194 And in the clinical and education sections,  
NOTE Confidence: 0.915811097142857

00:07:48.200 --> 00:07:50.986 at the end of all the presentations.

NOTE Confidence: 0.915811097142857  
00:07:50.990 --> 00:07:52.436 And you can put these questions  
NOTE Confidence: 0.915811097142857  
00:07:52.436 --> 00:07:54.334 in the chat or you can raise  
NOTE Confidence: 0.915811097142857  
00:07:54.334 --> 00:07:55.804 your virtual hand or something.  
NOTE Confidence: 0.915811097142857  
00:07:55.810 --> 00:07:58.258 We've all gotten very used to on zoom  
NOTE Confidence: 0.915811097142857  
00:07:58.258 --> 00:08:01.384 and we will be sure to either read your  
NOTE Confidence: 0.915811097142857  
00:08:01.384 --> 00:08:03.900 question from the chat or call on you.  
NOTE Confidence: 0.915811097142857  
00:08:03.900 --> 00:08:06.828 So let's start. Let's start the.  
NOTE Confidence: 0.915811097142857  
00:08:06.830 --> 00:08:09.469 Formal program so we don't waste another  
NOTE Confidence: 0.915811097142857  
00:08:09.469 --> 00:08:11.898 minute and let me turn to my colleague Dr.  
NOTE Confidence: 0.915811097142857  
00:08:11.900 --> 00:08:14.364 Undress Martin to get us started undress.  
NOTE Confidence: 0.8537738833333333  
00:08:15.800 --> 00:08:16.538 Thank you Linda.  
NOTE Confidence: 0.741083656  
00:08:26.460 --> 00:08:29.730 So, uh, good afternoon everyone,  
NOTE Confidence: 0.741083656  
00:08:29.730 --> 00:08:33.490 I'm delighted to be here and to kick us off.  
NOTE Confidence: 0.741083656  
00:08:33.490 --> 00:08:36.073 I'm doctor Andreas Martin and I'm honored  
NOTE Confidence: 0.741083656  
00:08:36.073 --> 00:08:39.100 to be the revival revoked professor at  
NOTE Confidence: 0.741083656

00:08:39.100 --> 00:08:42.782 the Child Study Center and you will be  
NOTE Confidence: 0.741083656

00:08:42.782 --> 00:08:46.530 hearing today a lot of quality research,  
NOTE Confidence: 0.741083656

00:08:46.530 --> 00:08:48.840 a lot of quality research,  
NOTE Confidence: 0.741083656

00:08:48.840 --> 00:08:51.632 but probably I'm going to be the only  
NOTE Confidence: 0.741083656

00:08:51.632 --> 00:08:54.210 person talking about qualitative research.  
NOTE Confidence: 0.741083656

00:08:54.210 --> 00:08:57.186 For those of you who don't know what  
NOTE Confidence: 0.741083656

00:08:57.186 --> 00:08:59.559 qualitative research is, let me explain.  
NOTE Confidence: 0.741083656

00:08:59.559 --> 00:09:02.277 This is a very serious scientist  
NOTE Confidence: 0.741083656

00:09:02.277 --> 00:09:04.863 looking at brain pictures or  
NOTE Confidence: 0.741083656

00:09:04.863 --> 00:09:07.423 organoids or something very serious.  
NOTE Confidence: 0.741083656

00:09:07.430 --> 00:09:09.055 Probably something having to do  
NOTE Confidence: 0.741083656

00:09:09.055 --> 00:09:10.928 with patients, maybe brain images.  
NOTE Confidence: 0.741083656

00:09:10.928 --> 00:09:14.226 The problem with this approach is that over  
NOTE Confidence: 0.741083656

00:09:14.226 --> 00:09:17.274 the years we've thrown to the cutting floor.  
NOTE Confidence: 0.741083656

00:09:17.280 --> 00:09:19.800 Some of the best footage we've been so  
NOTE Confidence: 0.741083656

00:09:19.800 --> 00:09:22.036 interested in getting this one that we've



NOTE Confidence: 0.741083656  
00:09:22.036 --> 00:09:24.430 thrown away some of the best footage,  
NOTE Confidence: 0.741083656  
00:09:24.430 --> 00:09:25.840 and by the best footage,  
NOTE Confidence: 0.741083656  
00:09:25.840 --> 00:09:27.980 I'm referring to the histories,  
NOTE Confidence: 0.741083656  
00:09:27.980 --> 00:09:30.372 the stories, the personal,  
NOTE Confidence: 0.741083656  
00:09:30.372 --> 00:09:32.764 the individual granularity behind  
NOTE Confidence: 0.741083656  
00:09:32.764 --> 00:09:35.796 each person in qualitative methods  
NOTE Confidence: 0.741083656  
00:09:35.796 --> 00:09:38.856 is all about leveraging that.  
NOTE Confidence: 0.741083656  
00:09:38.860 --> 00:09:40.680 Einstein said not everything that  
NOTE Confidence: 0.741083656  
00:09:40.680 --> 00:09:42.936 can be counted counts and not  
NOTE Confidence: 0.741083656  
00:09:42.936 --> 00:09:45.156 everything that counts can be counted,  
NOTE Confidence: 0.741083656  
00:09:45.160 --> 00:09:48.076 and that is very true for  
NOTE Confidence: 0.741083656  
00:09:48.076 --> 00:09:49.048 qualitative studies.  
NOTE Confidence: 0.741083656  
00:09:49.050 --> 00:09:51.248 I'm going to give you 2 examples  
NOTE Confidence: 0.741083656  
00:09:51.248 --> 00:09:52.991 of the qualitative research that  
NOTE Confidence: 0.741083656  
00:09:52.991 --> 00:09:54.467 I've been involved in,  
NOTE Confidence: 0.741083656

00:09:54.470 --> 00:09:56.348 and both of these projects are,  
NOTE Confidence: 0.741083656

00:09:56.350 --> 00:09:57.850 I would say, not just important,  
NOTE Confidence: 0.741083656

00:09:57.850 --> 00:10:00.586 but they are existential E important.  
NOTE Confidence: 0.741083656

00:10:00.590 --> 00:10:03.520 They deal with existential issues and  
NOTE Confidence: 0.741083656

00:10:03.520 --> 00:10:06.320 I don't say this in a theoretical way.  
NOTE Confidence: 0.741083656

00:10:06.320 --> 00:10:07.526 The first one is of course,  
NOTE Confidence: 0.741083656

00:10:07.530 --> 00:10:09.810 the pandemic.  
NOTE Confidence: 0.741083656

00:10:09.810 --> 00:10:11.749 This is the first of two papers  
NOTE Confidence: 0.741083656

00:10:11.749 --> 00:10:13.495 pivoting in the pandemic in which  
NOTE Confidence: 0.741083656

00:10:13.495 --> 00:10:15.476 we talked to some 40 child and  
NOTE Confidence: 0.741083656

00:10:15.542 --> 00:10:17.610 adolescent psychiatrists across EU.  
NOTE Confidence: 0.741083656

00:10:17.610 --> 00:10:20.809 S. Learning what they had to say.  
NOTE Confidence: 0.741083656

00:10:20.810 --> 00:10:22.694 I underlined the name of Mattie  
NOTE Confidence: 0.741083656

00:10:22.694 --> 00:10:24.525 Digiovanni because she is a medical  
NOTE Confidence: 0.741083656

00:10:24.525 --> 00:10:26.597 student who took the lead and was the  
NOTE Confidence: 0.741083656

00:10:26.653 --> 00:10:28.963 first author on this paper that was

NOTE Confidence: 0.741083656

00:10:28.963 --> 00:10:30.895 recently published and to give you a

NOTE Confidence: 0.741083656

00:10:30.895 --> 00:10:33.516 flavor of what I refer to buy personal

NOTE Confidence: 0.741083656

00:10:33.516 --> 00:10:35.656 histories and leveraging the personal,

NOTE Confidence: 0.741083656

00:10:35.660 --> 00:10:37.478 I'm going to share the voice

NOTE Confidence: 0.741083656

00:10:37.478 --> 00:10:39.700 of one of our participants.

NOTE Confidence: 0.741083656

00:10:39.700 --> 00:10:40.170 Now,

NOTE Confidence: 0.741083656

00:10:40.170 --> 00:10:41.580 to protect confidentiality,

NOTE Confidence: 0.741083656

00:10:41.580 --> 00:10:44.400 it won't be the participant herself,

NOTE Confidence: 0.741083656

00:10:44.400 --> 00:10:47.264 but rather a voice actor with a very

NOTE Confidence: 0.741083656

00:10:47.264 --> 00:10:49.671 beautiful and mellifluous voice talking

NOTE Confidence: 0.741083656

00:10:49.671 --> 00:10:51.676 about what we've all experienced.

NOTE Confidence: 0.741083656

00:10:51.680 --> 00:10:53.768 This movie like Quality Bear in

NOTE Confidence: 0.741083656

00:10:53.768 --> 00:10:55.861 mind that this study was done

NOTE Confidence: 0.741083656

00:10:55.861 --> 00:10:57.763 in month one of the pandemic.

NOTE Confidence: 0.741083656

00:10:57.770 --> 00:10:59.306 That's when we collected these data.

NOTE Confidence: 0.9826495

00:11:01.730 --> 00:11:04.790 I was having an intake with patient and  
NOTE Confidence: 0.807283415

00:11:04.790 --> 00:11:07.606 then the mother and then the father came.  
NOTE Confidence: 0.807283415

00:11:07.610 --> 00:11:09.900 Then the grandparents sat here like this.  
NOTE Confidence: 0.807283415

00:11:09.900 --> 00:11:11.820 I think they were watching a movie.  
NOTE Confidence: 0.807283415

00:11:11.820 --> 00:11:14.730 This is not a movie The grandparents were  
NOTE Confidence: 0.807283415

00:11:14.730 --> 00:11:17.180 mostly there and saying yes that's true.  
NOTE Confidence: 0.807283415

00:11:17.180 --> 00:11:20.010 That's true. She does that a lot but  
NOTE Confidence: 0.8677999175

00:11:20.020 --> 00:11:21.924 it was like they were watching a movie.  
NOTE Confidence: 0.884172293

00:11:23.480 --> 00:11:25.540 Indeed, we have all been  
NOTE Confidence: 0.884172293

00:11:25.540 --> 00:11:27.600 watching a movie of sorts.  
NOTE Confidence: 0.884172293

00:11:27.600 --> 00:11:29.900 This second pandemic related  
NOTE Confidence: 0.884172293

00:11:29.900 --> 00:11:32.200 paper viral time capsule.  
NOTE Confidence: 0.884172293

00:11:32.200 --> 00:11:33.760 What we did is exactly that.  
NOTE Confidence: 0.884172293

00:11:33.760 --> 00:11:36.829 Trying to do a capsule of what these strange,  
NOTE Confidence: 0.884172293

00:11:36.830 --> 00:11:38.660 strange times are all about.  
NOTE Confidence: 0.884172293

00:11:38.660 --> 00:11:41.150 Once I get we did it very early in the

NOTE Confidence: 0.884172293

00:11:41.224 --> 00:11:43.676 pandemic and the methodology was very simple.

NOTE Confidence: 0.884172293

00:11:43.680 --> 00:11:46.130 I should note again that the two

NOTE Confidence: 0.884172293

00:11:46.130 --> 00:11:48.699 underlying names are Yale medical students.

NOTE Confidence: 0.884172293

00:11:48.700 --> 00:11:50.428 Paper is very simple.

NOTE Confidence: 0.884172293

00:11:50.430 --> 00:11:52.725 Do you have an iPhone or some other device?

NOTE Confidence: 0.884172293

00:11:52.730 --> 00:11:55.526 Yes, everybody does in the planet.

NOTE Confidence: 0.884172293

00:11:55.530 --> 00:11:58.389 Gives it have a camera. Yes it does.

NOTE Confidence: 0.884172293

00:11:58.390 --> 00:12:00.670 Does it have a voice recorder?

NOTE Confidence: 0.884172293

00:12:00.670 --> 00:12:01.828 Does it have a voice recorder?

NOTE Confidence: 0.884172293

00:12:01.830 --> 00:12:03.670 And yes, it does well.

NOTE Confidence: 0.884172293

00:12:03.670 --> 00:12:06.365 Take pictures and tell us your thoughts.

NOTE Confidence: 0.884172293

00:12:06.370 --> 00:12:09.130 And what we did is that we collected.

NOTE Confidence: 0.884172293

00:12:09.130 --> 00:12:11.898 Data, photographs and commentaries

NOTE Confidence: 0.884172293

00:12:11.898 --> 00:12:13.462 from 134 submissions.

NOTE Confidence: 0.884172293

00:12:13.462 --> 00:12:14.334 Individual submissions,

NOTE Confidence: 0.884172293

00:12:14.334 --> 00:12:17.477 some of them with 20 and 30  
NOTE Confidence: 0.884172293

00:12:17.477 --> 00:12:19.767 photographs hailing from 54 countries.  
NOTE Confidence: 0.884172293

00:12:19.770 --> 00:12:22.410 And I'm going to give you just two  
NOTE Confidence: 0.884172293

00:12:22.410 --> 00:12:25.189 examples out of the menu that we received.  
NOTE Confidence: 0.884172293

00:12:25.190 --> 00:12:28.809 This one about disruption to daily routines.  
NOTE Confidence: 0.884172293

00:12:28.810 --> 00:12:31.346 We don't need to add much what has  
NOTE Confidence: 0.884172293

00:12:31.346 --> 00:12:33.604 happened to our kids and what will  
NOTE Confidence: 0.884172293

00:12:33.604 --> 00:12:36.242 be the impact of being out of school  
NOTE Confidence: 0.884172293

00:12:36.242 --> 00:12:38.608 behind this black wall for so long.  
NOTE Confidence: 0.884172293

00:12:38.610 --> 00:12:40.318 Or this other image coming from another  
NOTE Confidence: 0.884172293

00:12:40.318 --> 00:12:42.157 part of the world in northeastern India  
NOTE Confidence: 0.884172293

00:12:42.157 --> 00:12:44.320 as they dealt not just with a pandemic,  
NOTE Confidence: 0.884172293

00:12:44.320 --> 00:12:46.400 but also with record flooding.  
NOTE Confidence: 0.884172293

00:12:46.400 --> 00:12:48.264 And here they are doing the best of  
NOTE Confidence: 0.884172293

00:12:48.264 --> 00:12:50.592 child mental health, delivering food,  
NOTE Confidence: 0.884172293

00:12:50.592 --> 00:12:52.800 delivering mosquito Nets,

NOTE Confidence: 0.884172293

00:12:52.800 --> 00:12:55.794 and being where the action is

NOTE Confidence: 0.884172293

00:12:55.794 --> 00:12:57.790 in a selfless way.

NOTE Confidence: 0.884172293

00:12:57.790 --> 00:13:00.865 The second study is of a

NOTE Confidence: 0.884172293

00:13:00.865 --> 00:13:02.560 different existential nature.

NOTE Confidence: 0.884172293

00:13:02.560 --> 00:13:05.900 Ecological awareness and how can we

NOTE Confidence: 0.884172293

00:13:05.900 --> 00:13:09.220 move children from anxiety into action?

NOTE Confidence: 0.884172293

00:13:09.220 --> 00:13:10.256 Isaiah Thomas,

NOTE Confidence: 0.884172293

00:13:10.256 --> 00:13:11.810 another medical student,

NOTE Confidence: 0.884172293

00:13:11.810 --> 00:13:14.380 is a key author here.

NOTE Confidence: 0.884172293

00:13:14.380 --> 00:13:16.830 And what we did is analyzed newspapers.

NOTE Confidence: 0.884172293

00:13:16.830 --> 00:13:20.866 The six top U S newspapers and use a

NOTE Confidence: 0.884172293

00:13:20.866 --> 00:13:23.126 method of qualitative research called

NOTE Confidence: 0.884172293

00:13:23.126 --> 00:13:25.182 discourse analysis and what we saw

NOTE Confidence: 0.884172293

00:13:25.182 --> 00:13:27.369 is that over the past decade or so,

NOTE Confidence: 0.884172293

00:13:27.370 --> 00:13:30.040 citations in the newspapers about

NOTE Confidence: 0.884172293

00:13:30.040 --> 00:13:32.176 ecological issues involving children  
NOTE Confidence: 0.884172293

00:13:32.176 --> 00:13:34.901 have quickly gone up and the two  
NOTE Confidence: 0.884172293

00:13:34.901 --> 00:13:37.330 big peaks that you see there are  
NOTE Confidence: 0.884172293

00:13:37.411 --> 00:13:38.906 what I call the TT.  
NOTE Confidence: 0.884172293

00:13:38.910 --> 00:13:42.228 The first one is Greta Thunberg,  
NOTE Confidence: 0.884172293

00:13:42.230 --> 00:13:44.822 the child advocate for.  
NOTE Confidence: 0.884172293

00:13:44.822 --> 00:13:48.328 Environmental awareness and the second one.  
NOTE Confidence: 0.884172293

00:13:48.330 --> 00:13:50.484 Is the election of President Biden  
NOTE Confidence: 0.884172293

00:13:50.484 --> 00:13:53.189 after what was a very contentious?  
NOTE Confidence: 0.884172293

00:13:53.190 --> 00:13:55.332 Election having where there was a  
NOTE Confidence: 0.884172293

00:13:55.332 --> 00:13:57.950 lot of talk about the environment.  
NOTE Confidence: 0.884172293

00:13:57.950 --> 00:14:00.288 What we came up with is this  
NOTE Confidence: 0.884172293

00:14:00.288 --> 00:14:01.614 categorization of children viewed  
NOTE Confidence: 0.884172293

00:14:01.614 --> 00:14:04.343 in one of four ways as fierce young  
NOTE Confidence: 0.884172293

00:14:04.343 --> 00:14:07.169 activists as innocent victims as adult.  
NOTE Confidence: 0.884172293

00:14:07.170 --> 00:14:09.726 If I children bearing the responsibility,



NOTE Confidence: 0.884172293

00:14:09.730 --> 00:14:12.430 perhaps a responsibility of being

NOTE Confidence: 0.884172293

00:14:12.430 --> 00:14:14.050 our ultimate saviors.

NOTE Confidence: 0.884172293

00:14:14.050 --> 00:14:15.954 Where next going to take this work

NOTE Confidence: 0.884172293

00:14:15.954 --> 00:14:18.253 that we did in the newspapers to

NOTE Confidence: 0.884172293

00:14:18.253 --> 00:14:20.028 do interviews of actual children?

NOTE Confidence: 0.884172293

00:14:20.030 --> 00:14:21.542 We have started doing that in

NOTE Confidence: 0.884172293

00:14:21.542 --> 00:14:23.471 the US and will be starting soon

NOTE Confidence: 0.884172293

00:14:23.471 --> 00:14:24.906 in Brazil and in France,

NOTE Confidence: 0.884172293

00:14:24.910 --> 00:14:26.470 and we're doing this in collaboration

NOTE Confidence: 0.884172293

00:14:26.470 --> 00:14:27.910 with my good colleague Lillian.

NOTE Confidence: 0.884172293

00:14:27.910 --> 00:14:29.865 Want a child psychiatrist but

NOTE Confidence: 0.884172293

00:14:29.865 --> 00:14:31.429 with background in sociology.

NOTE Confidence: 0.884172293

00:14:31.430 --> 00:14:34.760 Who's spending a year with us on a Fulbright.

NOTE Confidence: 0.884172293

00:14:34.760 --> 00:14:37.280 And helping us learn how to

NOTE Confidence: 0.884172293

00:14:37.280 --> 00:14:38.960 turn eco anxiety into

NOTE Confidence: 0.836235133076923

00:14:39.048 --> 00:14:41.761 Eco aware action in this partnership  
NOTE Confidence: 0.836235133076923

00:14:41.761 --> 00:14:44.443 between Lilia and France and US,  
NOTE Confidence: 0.836235133076923

00:14:44.450 --> 00:14:46.898 is the newly developed Qual app.  
NOTE Confidence: 0.836235133076923

00:14:46.900 --> 00:14:49.240 The qualitative and mixed Methods lab,  
NOTE Confidence: 0.836235133076923

00:14:49.240 --> 00:14:51.580 which is our partnership with the  
NOTE Confidence: 0.836235133076923

00:14:51.580 --> 00:14:53.770 National Institute of Health in Paris.  
NOTE Confidence: 0.836235133076923

00:14:53.770 --> 00:14:56.210 And with that I will end messy beaucoup,  
NOTE Confidence: 0.836235133076923

00:14:56.210 --> 00:14:58.130 and I want to thank all of the  
NOTE Confidence: 0.836235133076923

00:14:58.130 --> 00:14:59.849 associates of the CHILD Study Center  
NOTE Confidence: 0.836235133076923

00:14:59.849 --> 00:15:01.619 for their support of the years,  
NOTE Confidence: 0.836235133076923

00:15:01.620 --> 00:15:04.025 and very particularly to the  
NOTE Confidence: 0.836235133076923

00:15:04.025 --> 00:15:05.468 Allenby Slifka Foundation.  
NOTE Confidence: 0.836235133076923

00:15:05.470 --> 00:15:07.450 And its leader,  
NOTE Confidence: 0.836235133076923

00:15:07.450 --> 00:15:10.750 the incomparable Reva Ariella Ritvo.  
NOTE Confidence: 0.836235133076923

00:15:10.750 --> 00:15:11.354 And again,  
NOTE Confidence: 0.836235133076923

00:15:11.354 --> 00:15:13.770 I am honored and delighted to be the

NOTE Confidence: 0.836235133076923  
00:15:13.834 --> 00:15:16.340 holder of the Reva Ariella Ritvo chair.  
NOTE Confidence: 0.836235133076923  
00:15:16.340 --> 00:15:17.400 Thank you for your attention.  
NOTE Confidence: 0.91708102  
00:15:18.690 --> 00:15:20.350 Thank you very much hundreds.  
NOTE Confidence: 0.91708102  
00:15:20.350 --> 00:15:23.206 We have a moment for any questions  
NOTE Confidence: 0.91708102  
00:15:23.210 --> 00:15:25.610 either in the chat or as we said,  
NOTE Confidence: 0.91708102  
00:15:25.610 --> 00:15:27.058 raise your virtual hand.  
NOTE Confidence: 0.78854823  
00:15:34.010 --> 00:15:36.272 These are existentially scary moments.  
NOTE Confidence: 0.78854823  
00:15:36.272 --> 00:15:37.944 Maybe that's what's happening.  
NOTE Confidence: 0.849765261875  
00:15:39.530 --> 00:15:42.455 We will also have time as we go through  
NOTE Confidence: 0.849765261875  
00:15:42.455 --> 00:15:45.378 there as people start reflecting as well.  
NOTE Confidence: 0.849765261875  
00:15:45.380 --> 00:15:49.034 So may I call on Ellen Dr Ellen Hoffman.  
NOTE Confidence: 0.9697336  
00:15:50.700 --> 00:15:51.170 Yes.  
NOTE Confidence: 0.683531668  
00:15:56.660 --> 00:15:58.530 Hello everyone I'm Ellen Hoffman.  
NOTE Confidence: 0.683531668  
00:15:58.530 --> 00:15:59.830 I'm an assistant professor  
NOTE Confidence: 0.683531668  
00:15:59.830 --> 00:16:01.455 at the Child Study Center.  
NOTE Confidence: 0.683531668

00:16:01.460 --> 00:16:03.395 It's great to have the opportunity  
NOTE Confidence: 0.683531668

00:16:03.395 --> 00:16:05.902 to talk to you about the research  
NOTE Confidence: 0.683531668

00:16:05.902 --> 00:16:08.690 that my lab is doing an autism  
NOTE Confidence: 0.683531668

00:16:08.690 --> 00:16:11.490 risk gene function in particular.  
NOTE Confidence: 0.683531668

00:16:11.490 --> 00:16:14.350 We aimed to harness the power of  
NOTE Confidence: 0.683531668

00:16:14.350 --> 00:16:16.535 model systems to understand more about  
NOTE Confidence: 0.683531668

00:16:16.535 --> 00:16:18.635 the function of autism risk genes.  
NOTE Confidence: 0.683531668

00:16:18.640 --> 00:16:21.544 This is work that we've been  
NOTE Confidence: 0.683531668

00:16:21.544 --> 00:16:23.750 developing at the CHILd Study  
NOTE Confidence: 0.683531668

00:16:23.750 --> 00:16:25.798 Center so as some of you may know,  
NOTE Confidence: 0.683531668

00:16:25.800 --> 00:16:26.938 the largest.  
NOTE Confidence: 0.683531668

00:16:26.938 --> 00:16:29.783 Genetic sequencing study in autism  
NOTE Confidence: 0.683531668

00:16:29.783 --> 00:16:33.070 led to the identification.  
NOTE Confidence: 0.683531668

00:16:33.070 --> 00:16:36.192 Of over 100 genes that are strongly  
NOTE Confidence: 0.683531668

00:16:36.192 --> 00:16:37.530 associated with autism.  
NOTE Confidence: 0.683531668

00:16:37.530 --> 00:16:39.732 This is a study that involves sequencing

NOTE Confidence: 0.683531668

00:16:39.732 --> 00:16:42.930 over 12,000 individuals with autism

NOTE Confidence: 0.683531668

00:16:42.930 --> 00:16:45.198 and led to the identification of

NOTE Confidence: 0.683531668

00:16:45.200 --> 00:16:47.624 102 genes that we consider high

NOTE Confidence: 0.683531668

00:16:47.624 --> 00:16:48.948 confidence autism risk genes,

NOTE Confidence: 0.683531668

00:16:48.950 --> 00:16:51.330 each of which is represented here

NOTE Confidence: 0.683531668

00:16:51.330 --> 00:16:53.184 as an individual point and how

NOTE Confidence: 0.683531668

00:16:53.184 --> 00:16:55.846 high up they are on this particular

NOTE Confidence: 0.683531668

00:16:55.846 --> 00:16:58.111 graph represents the strength of

NOTE Confidence: 0.683531668

00:16:58.111 --> 00:16:59.879 their association with autism.

NOTE Confidence: 0.683531668

00:16:59.880 --> 00:17:01.410 Now, despite this progress,

NOTE Confidence: 0.683531668

00:17:01.410 --> 00:17:03.258 one of the challenges that we face.

NOTE Confidence: 0.683531668

00:17:03.260 --> 00:17:05.168 Is how do we advance from the

NOTE Confidence: 0.683531668

00:17:05.168 --> 00:17:06.784 identification of this growing

NOTE Confidence: 0.683531668

00:17:06.784 --> 00:17:09.357 number of autism risk genes towards

NOTE Confidence: 0.683531668

00:17:09.357 --> 00:17:11.133 gaining an actionable understanding

NOTE Confidence: 0.683531668

00:17:11.133 --> 00:17:13.440 of the biology of autism?  
NOTE Confidence: 0.683531668

00:17:13.440 --> 00:17:14.850 And this challenge is represented  
NOTE Confidence: 0.683531668

00:17:14.850 --> 00:17:16.412 by this figure where you can see  
NOTE Confidence: 0.683531668

00:17:16.412 --> 00:17:18.214 that even if we identify one gene  
NOTE Confidence: 0.683531668

00:17:18.214 --> 00:17:19.846 that's associated with autism,  
NOTE Confidence: 0.683531668

00:17:19.850 --> 00:17:22.196 this can lead to the disruption  
NOTE Confidence: 0.683531668

00:17:22.196 --> 00:17:23.760 of multiple different proteins.  
NOTE Confidence: 0.683531668

00:17:23.760 --> 00:17:25.443 Multiple different cells,  
NOTE Confidence: 0.683531668

00:17:25.443 --> 00:17:27.126 circuits and behaviors.  
NOTE Confidence: 0.683531668

00:17:27.130 --> 00:17:29.554 And the challenge is how can we begin  
NOTE Confidence: 0.683531668

00:17:29.554 --> 00:17:31.533 to identify points of convergence  
NOTE Confidence: 0.683531668

00:17:31.533 --> 00:17:33.269 or points of vulnerability?  
NOTE Confidence: 0.683531668

00:17:33.270 --> 00:17:34.790 Across these different cells  
NOTE Confidence: 0.683531668

00:17:34.790 --> 00:17:36.715 and circuits and behaviors that  
NOTE Confidence: 0.683531668

00:17:36.715 --> 00:17:39.054 might represent entry points for  
NOTE Confidence: 0.683531668

00:17:39.054 --> 00:17:41.100 identifying new pharmacological

NOTE Confidence: 0.683531668  
00:17:41.100 --> 00:17:43.828 candidates and new interventions.  
NOTE Confidence: 0.683531668  
00:17:43.830 --> 00:17:46.280 And so in my lab we use this model system.  
NOTE Confidence: 0.683531668  
00:17:46.280 --> 00:17:48.360 The zebrafish to answer these  
NOTE Confidence: 0.683531668  
00:17:48.360 --> 00:17:51.020 questions and our goal is not  
NOTE Confidence: 0.683531668  
00:17:51.020 --> 00:17:53.016 to recapitulate in zebrafish.  
NOTE Confidence: 0.683531668  
00:17:53.020 --> 00:17:55.190 The clinical features of autism,  
NOTE Confidence: 0.683531668  
00:17:55.190 --> 00:17:58.375 but rather we can leverage key advantages  
NOTE Confidence: 0.683531668  
00:17:58.375 --> 00:18:01.527 of this system to begin to identify.  
NOTE Confidence: 0.683531668  
00:18:01.530 --> 00:18:03.670 Uhm, points of convergence  
NOTE Confidence: 0.683531668  
00:18:03.670 --> 00:18:05.820 across autism risk genes.  
NOTE Confidence: 0.683531668  
00:18:05.820 --> 00:18:06.213 So,  
NOTE Confidence: 0.683531668  
00:18:06.213 --> 00:18:06.999 for example,  
NOTE Confidence: 0.683531668  
00:18:07.000 --> 00:18:08.408 first zebrafish are easy  
NOTE Confidence: 0.683531668  
00:18:08.408 --> 00:18:09.746 to manipulate genetically,  
NOTE Confidence: 0.683531668  
00:18:09.746 --> 00:18:12.704 so it's possible using these new  
NOTE Confidence: 0.683531668

00:18:12.704 --> 00:18:14.620 molecular scissors called CRISPR  
NOTE Confidence: 0.683531668

00:18:14.620 --> 00:18:16.440 that we can inject into zebrafish  
NOTE Confidence: 0.683531668

00:18:16.440 --> 00:18:19.080 embryos at the one cell stage  
NOTE Confidence: 0.683531668

00:18:19.080 --> 00:18:20.900 to actually generate zebrafish  
NOTE Confidence: 0.683531668

00:18:20.900 --> 00:18:22.720 mutants in different autism  
NOTE Confidence: 0.683531668

00:18:22.720 --> 00:18:25.330 risk genes relatively rapidly.  
NOTE Confidence: 0.683531668

00:18:25.330 --> 00:18:28.052 Second zebrafish have rapid  
NOTE Confidence: 0.683531668

00:18:28.052 --> 00:18:29.220 external development,  
NOTE Confidence: 0.683531668

00:18:29.220 --> 00:18:30.744 So what you're looking at here  
NOTE Confidence: 0.683531668

00:18:30.744 --> 00:18:32.170 is the 1st 24 hours.  
NOTE Confidence: 0.683531668

00:18:32.170 --> 00:18:33.858 Of zebrafish development occurring  
NOTE Confidence: 0.683531668

00:18:33.858 --> 00:18:35.546 in a Petri dish.  
NOTE Confidence: 0.683531668

00:18:35.550 --> 00:18:37.390 And because zebrafish have  
NOTE Confidence: 0.683531668

00:18:37.390 --> 00:18:38.770 fully transparent embryos,  
NOTE Confidence: 0.683531668

00:18:38.770 --> 00:18:40.810 we can visualize basic processes  
NOTE Confidence: 0.683531668

00:18:40.810 --> 00:18:43.241 of neural development in real time



NOTE Confidence: 0.683531668

00:18:43.241 --> 00:18:45.453 and ask how these change when a

NOTE Confidence: 0.683531668

00:18:45.453 --> 00:18:47.597 gene that's associated with autism

NOTE Confidence: 0.683531668

00:18:47.597 --> 00:18:49.517 is not functioning properly.

NOTE Confidence: 0.683531668

00:18:49.520 --> 00:18:50.220 And finally,

NOTE Confidence: 0.683531668

00:18:50.220 --> 00:18:52.884 zebrafish are highly tractable in the lab,

NOTE Confidence: 0.683531668

00:18:52.884 --> 00:18:55.590 and they have very simple behaviors,

NOTE Confidence: 0.683531668

00:18:55.590 --> 00:18:57.920 so it's possible to pipette individual

NOTE Confidence: 0.683531668

00:18:57.920 --> 00:19:00.446 larvae into the wells of a 96 well

NOTE Confidence: 0.683531668

00:19:00.446 --> 00:19:02.336 plate and track different aspects

NOTE Confidence: 0.683531668

00:19:02.336 --> 00:19:04.160 of their locomotor activity.

NOTE Confidence: 0.683531668

00:19:04.160 --> 00:19:04.708 For example,

NOTE Confidence: 0.683531668

00:19:04.708 --> 00:19:06.352 what you're looking at here is

NOTE Confidence: 0.683531668

00:19:06.352 --> 00:19:08.937 a zebrafish larva undergoing a

NOTE Confidence: 0.683531668

00:19:08.937 --> 00:19:10.098 visual startle response,

NOTE Confidence: 0.683531668

00:19:10.098 --> 00:19:12.420 and we can quantify this response

NOTE Confidence: 0.683531668

00:19:12.494 --> 00:19:15.022 and ask how it changes in response to  
NOTE Confidence: 0.683531668

00:19:15.022 --> 00:19:17.859 exposure to different psychoactive compounds.  
NOTE Confidence: 0.683531668

00:19:17.860 --> 00:19:18.860 And we can use these  
NOTE Confidence: 0.8406642425

00:19:18.860 --> 00:19:21.764 behaviors. As a readout of how genes that  
NOTE Confidence: 0.8406642425

00:19:21.764 --> 00:19:24.090 are associated with autism might affect  
NOTE Confidence: 0.8406642425

00:19:24.090 --> 00:19:26.650 basic sensory processing and arousal,  
NOTE Confidence: 0.8406642425

00:19:26.650 --> 00:19:30.080 circuits which have translational relevance,  
NOTE Confidence: 0.8406642425

00:19:30.080 --> 00:19:32.061 and so, in my lab, we developed and  
NOTE Confidence: 0.8406642425

00:19:32.061 --> 00:19:33.746 are currently implementing a pipeline  
NOTE Confidence: 0.8406642425

00:19:33.746 --> 00:19:35.850 where we generate zebrafish mutants  
NOTE Confidence: 0.8406642425

00:19:35.850 --> 00:19:38.000 in multiple different autism risk  
NOTE Confidence: 0.8406642425

00:19:38.000 --> 00:19:40.283 genes and then ask how the loss  
NOTE Confidence: 0.8406642425

00:19:40.283 --> 00:19:42.389 of function of these genes effects  
NOTE Confidence: 0.8406642425

00:19:42.390 --> 00:19:45.210 basic processes of brain development,  
NOTE Confidence: 0.8406642425

00:19:45.210 --> 00:19:46.759 and then we perform large  
NOTE Confidence: 0.8406642425

00:19:46.759 --> 00:19:48.526 scale pharmacological behavior.

NOTE Confidence: 0.8406642425  
00:19:48.526 --> 00:19:51.471 Based screens to identify potential  
NOTE Confidence: 0.8406642425  
00:19:51.471 --> 00:19:54.627 drug candidates that we can translate,  
NOTE Confidence: 0.8406642425  
00:19:54.630 --> 00:19:59.660 possibly to the mailing systems.  
NOTE Confidence: 0.8406642425  
00:19:59.660 --> 00:20:02.020 And thus far we have completed a screen  
NOTE Confidence: 0.8406642425  
00:20:02.020 --> 00:20:04.241 of over 500 different FDA approved  
NOTE Confidence: 0.8406642425  
00:20:04.241 --> 00:20:07.398 compounds and observed a readout of how  
NOTE Confidence: 0.8406642425  
00:20:07.398 --> 00:20:10.032 these compounds affect basic sensory  
NOTE Confidence: 0.8406642425  
00:20:10.032 --> 00:20:12.244 processing behaviors in zebrafish.  
NOTE Confidence: 0.8406642425  
00:20:12.250 --> 00:20:14.422 And we're now leveraging this database  
NOTE Confidence: 0.8406642425  
00:20:14.422 --> 00:20:16.710 to identify potential drug candidates,  
NOTE Confidence: 0.8406642425  
00:20:16.710 --> 00:20:19.164 and I'll just highlight two of  
NOTE Confidence: 0.8406642425  
00:20:19.164 --> 00:20:20.800 our recently published works.  
NOTE Confidence: 0.8406642425  
00:20:20.800 --> 00:20:21.942 This was written by.  
NOTE Confidence: 0.8406642425  
00:20:21.942 --> 00:20:23.694 This is work that was spearheaded  
NOTE Confidence: 0.8406642425  
00:20:23.694 --> 00:20:25.510 by a Yale undergraduate,  
NOTE Confidence: 0.8406642425

00:20:25.510 --> 00:20:26.990 has worked in my work in my lab,  
NOTE Confidence: 0.8406642425

00:20:26.990 --> 00:20:29.170 Kristen Enriques, where we begin.  
NOTE Confidence: 0.8406642425

00:20:29.170 --> 00:20:30.990 To talk about potential convergent  
NOTE Confidence: 0.8406642425

00:20:30.990 --> 00:20:33.380 pathways downstream of autism risk genes,  
NOTE Confidence: 0.8406642425

00:20:33.380 --> 00:20:35.828 so we know that autism risk genes  
NOTE Confidence: 0.8406642425

00:20:35.828 --> 00:20:37.730 converge on gene expression regulation,  
NOTE Confidence: 0.8406642425

00:20:37.730 --> 00:20:38.774 synaptic function,  
NOTE Confidence: 0.8406642425

00:20:38.774 --> 00:20:41.384 and excited to inhibitory imbalance.  
NOTE Confidence: 0.8406642425

00:20:41.390 --> 00:20:42.060 Interestingly,  
NOTE Confidence: 0.8406642425

00:20:42.060 --> 00:20:43.950 in one of our studies in zebrafish,  
NOTE Confidence: 0.8406642425

00:20:43.950 --> 00:20:45.690 we found that drugs with estrogenic  
NOTE Confidence: 0.8406642425

00:20:45.690 --> 00:20:48.585 activity can actually rescue or reverse  
NOTE Confidence: 0.8406642425

00:20:48.585 --> 00:20:50.213 an abnormal behavior associated  
NOTE Confidence: 0.8406642425

00:20:50.213 --> 00:20:52.444 with one particular autism risk  
NOTE Confidence: 0.8406642425

00:20:52.444 --> 00:20:54.204 gene contact necessary protein.  
NOTE Confidence: 0.8406642425

00:20:54.210 --> 00:20:56.410 Two and in this paper we highlight how

NOTE Confidence: 0.8406642425

00:20:56.410 --> 00:20:59.239 some of the pathways downstream of estrogens.

NOTE Confidence: 0.8406642425

00:20:59.240 --> 00:21:01.906 Actually overlap with pathways that

NOTE Confidence: 0.8406642425

00:21:01.906 --> 00:21:04.066 are also implicated downstream of

NOTE Confidence: 0.8406642425

00:21:04.066 --> 00:21:06.053 autism risk genes representing

NOTE Confidence: 0.8406642425

00:21:06.053 --> 00:21:08.683 a potential point of convergence

NOTE Confidence: 0.8406642425

00:21:08.683 --> 00:21:10.261 for further investigation.

NOTE Confidence: 0.8406642425

00:21:10.270 --> 00:21:10.555 Second,

NOTE Confidence: 0.8406642425

00:21:10.555 --> 00:21:13.520 in a recent paper on which was written by

NOTE Confidence: 0.8406642425

00:21:13.520 --> 00:21:16.044 a graduate student in a course in my lab,

NOTE Confidence: 0.8406642425

00:21:16.050 --> 00:21:18.066 we collaborated with a lab at

NOTE Confidence: 0.8406642425

00:21:18.066 --> 00:21:19.410 the Department of Neurosurgery,

NOTE Confidence: 0.8406642425

00:21:19.410 --> 00:21:21.534 studying genes associated with

NOTE Confidence: 0.8406642425

00:21:21.534 --> 00:21:22.596 congenital hydrocephalus,

NOTE Confidence: 0.8406642425

00:21:22.600 --> 00:21:23.212 and interestingly,

NOTE Confidence: 0.8406642425

00:21:23.212 --> 00:21:25.048 we found that there's an overlap

NOTE Confidence: 0.8406642425

00:21:25.048 --> 00:21:27.271 in genes that are associated with  
NOTE Confidence: 0.8406642425

00:21:27.271 --> 00:21:28.827 autism and congenital hydrocephalus,  
NOTE Confidence: 0.8406642425

00:21:28.830 --> 00:21:31.210 suggesting that these might also  
NOTE Confidence: 0.8406642425

00:21:31.210 --> 00:21:32.950 represent a convergent biological  
NOTE Confidence: 0.8406642425

00:21:32.950 --> 00:21:36.750 pathways and represent our potential  
NOTE Confidence: 0.8406642425

00:21:36.750 --> 00:21:39.450 pharmacological pathways for  
NOTE Confidence: 0.8406642425

00:21:39.450 --> 00:21:41.250 clinical translation.  
NOTE Confidence: 0.8406642425

00:21:41.250 --> 00:21:42.044 And finally,  
NOTE Confidence: 0.8406642425

00:21:42.044 --> 00:21:43.632 we're implementing whole brain  
NOTE Confidence: 0.8406642425

00:21:43.632 --> 00:21:45.693 activity mapping in zebrafish mutants,  
NOTE Confidence: 0.8406642425

00:21:45.693 --> 00:21:47.218 in collaboration with the Department  
NOTE Confidence: 0.8406642425

00:21:47.218 --> 00:21:49.314 of Radiology here at Yale so that  
NOTE Confidence: 0.8406642425

00:21:49.314 --> 00:21:52.055 we can begin to identify how genes  
NOTE Confidence: 0.8406642425

00:21:52.055 --> 00:21:54.480 associated with autism might alter  
NOTE Confidence: 0.8406642425

00:21:54.560 --> 00:21:57.242 baseline brain activity in a very  
NOTE Confidence: 0.8406642425

00:21:57.242 --> 00:21:59.110 simple developing vertebrate brain.

NOTE Confidence: 0.8406642425

00:21:59.110 --> 00:22:01.136 And what you're seeing here are

NOTE Confidence: 0.8406642425

00:22:01.136 --> 00:22:03.455 changes in baseline brain activity

NOTE Confidence: 0.8406642425

00:22:03.455 --> 00:22:05.830 differences in baseline brain

NOTE Confidence: 0.8406642425

00:22:05.830 --> 00:22:07.630 activity in zebrafish mutant.

NOTE Confidence: 0.8406642425

00:22:07.630 --> 00:22:09.472 Lacking the function of a gene

NOTE Confidence: 0.8406642425

00:22:09.472 --> 00:22:10.700 that's associated with both.

NOTE Confidence: 0.8406642425

00:22:10.700 --> 00:22:11.792 Autism and epilepsy,

NOTE Confidence: 0.8406642425

00:22:11.792 --> 00:22:14.340 and we're currently doing in vivo live

NOTE Confidence: 0.8406642425

00:22:14.402 --> 00:22:16.580 imaging to begin to understand how

NOTE Confidence: 0.8406642425

00:22:16.580 --> 00:22:18.720 loss of functionality is different.

NOTE Confidence: 0.8406642425

00:22:18.720 --> 00:22:22.230 Genes alters basic circuit function

NOTE Confidence: 0.8406642425

00:22:22.230 --> 00:22:23.922 and I just want to highlight

NOTE Confidence: 0.8406642425

00:22:23.922 --> 00:22:25.459 acknowledge the members of my lab.

NOTE Confidence: 0.8406642425

00:22:25.460 --> 00:22:27.296 We've been involved in this work,

NOTE Confidence: 0.8406642425

00:22:27.300 --> 00:22:29.580 our collaborators, and of course,

NOTE Confidence: 0.8406642425

00:22:29.580 --> 00:22:31.146 thank you for your support and  
NOTE Confidence: 0.8406642425

00:22:31.146 --> 00:22:32.550 thank the CHILD Study Center  
NOTE Confidence: 0.8942622

00:22:32.560 --> 00:22:34.108 for the support of this research  
NOTE Confidence: 0.878167462857143

00:22:34.610 --> 00:22:36.430 and I'm happy to answer any questions.  
NOTE Confidence: 0.853837121428571

00:22:37.360 --> 00:22:39.304 Thank you, do we have we have time  
NOTE Confidence: 0.853837121428571

00:22:39.304 --> 00:22:41.408 for our question from the audience?  
NOTE Confidence: 0.9298674

00:22:51.100 --> 00:22:53.990 OK, thank you. May I ask  
NOTE Confidence: 0.9298674

00:22:53.990 --> 00:22:55.230 Chirac to come forward?  
NOTE Confidence: 0.7606715775

00:23:10.820 --> 00:23:12.700 Having technical difficulties, shrimp.  
NOTE Confidence: 0.801255225

00:23:18.360 --> 00:23:19.650 Strawberry there.  
NOTE Confidence: 0.764485218333333

00:23:27.360 --> 00:23:30.048 Alright, so so why don't we?  
NOTE Confidence: 0.764485218333333

00:23:30.050 --> 00:23:32.157 Why don't we move in the scramble?  
NOTE Confidence: 0.764485218333333

00:23:32.160 --> 00:23:35.216 Come back in a one link can you  
NOTE Confidence: 0.764485218333333

00:23:35.216 --> 00:23:38.350 come forward? Yeah yeah thank you.  
NOTE Confidence: 0.884846228

00:23:45.260 --> 00:23:46.210 Can you see my screen?  
NOTE Confidence: 0.9413686

00:23:47.970 --> 00:23:49.458 Yes, we can great.



NOTE Confidence: 0.678952356666667

00:23:51.990 --> 00:23:54.102 Hi, my name is Wan Ling Ling.

NOTE Confidence: 0.678952356666667

00:23:54.102 --> 00:23:55.815 I'm an assistant professor at the

NOTE Confidence: 0.678952356666667

00:23:55.815 --> 00:23:57.830 Yale Child Study Center in Danville,

NOTE Confidence: 0.678952356666667

00:23:57.830 --> 00:24:00.476 so the Pi at the Yale Child

NOTE Confidence: 0.678952356666667

00:24:00.476 --> 00:24:02.449 Study Center effective Youth Lab,

NOTE Confidence: 0.678952356666667

00:24:02.450 --> 00:24:05.384 the Yale app and in my lab we study,

NOTE Confidence: 0.678952356666667

00:24:05.390 --> 00:24:08.750 irritability, brain and development

NOTE Confidence: 0.678952356666667

00:24:08.750 --> 00:24:10.886 and these are the members of my lab.

NOTE Confidence: 0.678952356666667

00:24:10.890 --> 00:24:12.066 And here I am.

NOTE Confidence: 0.678952356666667

00:24:12.066 --> 00:24:14.310 The P and we also have grace.

NOTE Confidence: 0.678952356666667

00:24:14.310 --> 00:24:17.260 Who's our lab manager and nelia,

NOTE Confidence: 0.678952356666667

00:24:17.260 --> 00:24:19.515 who's a visiting PhD student

NOTE Confidence: 0.678952356666667

00:24:19.515 --> 00:24:21.319 from Belgium and clear.

NOTE Confidence: 0.678952356666667

00:24:21.320 --> 00:24:23.924 Who's a masters student from the

NOTE Confidence: 0.678952356666667

00:24:23.924 --> 00:24:26.778 Yale UCL program and we have Vivian,

NOTE Confidence: 0.678952356666667

00:24:26.780 --> 00:24:28.541 Sophia, Christina, Michelle,  
NOTE Confidence: 0.678952356666667

00:24:28.541 --> 00:24:32.063 Amanda and Eve were the undergraduate  
NOTE Confidence: 0.678952356666667

00:24:32.063 --> 00:24:34.518 students actively helping out in  
NOTE Confidence: 0.678952356666667

00:24:34.518 --> 00:24:37.194 various research tasks in my lab.  
NOTE Confidence: 0.678952356666667

00:24:37.200 --> 00:24:39.980 And we also have some group lab  
NOTE Confidence: 0.678952356666667

00:24:39.980 --> 00:24:42.715 photos lab photos pre covered  
NOTE Confidence: 0.678952356666667

00:24:42.715 --> 00:24:45.990 and also in the COVID era.  
NOTE Confidence: 0.9316633

00:24:48.750 --> 00:24:50.218 So in my lab,  
NOTE Confidence: 0.682050195

00:24:50.250 --> 00:24:52.258 our research, our research  
NOTE Confidence: 0.761781965714286

00:24:52.270 --> 00:24:55.210 can be broadly divided into 3 domains,  
NOTE Confidence: 0.761781965714286

00:24:55.210 --> 00:24:58.090 so the first area is to use longitudinal  
NOTE Confidence: 0.761781965714286

00:24:58.090 --> 00:25:01.313 study to study to look at their  
NOTE Confidence: 0.761781965714286

00:25:01.313 --> 00:25:03.253 developmental trajectories of your  
NOTE Confidence: 0.761781965714286

00:25:03.253 --> 00:25:05.249 debility and related constructs  
NOTE Confidence: 0.761781965714286

00:25:05.249 --> 00:25:07.639 such as anger and aggression,  
NOTE Confidence: 0.761781965714286

00:25:07.640 --> 00:25:10.510 and the second area is to better

NOTE Confidence: 0.761781965714286

00:25:10.510 --> 00:25:12.743 understand the neural mechanisms of

NOTE Confidence: 0.761781965714286

00:25:12.743 --> 00:25:15.521 pure ability and core covering symptoms

NOTE Confidence: 0.761781965714286

00:25:15.521 --> 00:25:19.978 such as ADHD in anxiety. Using F MRI.

NOTE Confidence: 0.761781965714286

00:25:19.980 --> 00:25:23.212 And the third one is to study

NOTE Confidence: 0.761781965714286

00:25:23.212 --> 00:25:25.664 environmental exposures including pollutants,

NOTE Confidence: 0.761781965714286

00:25:25.670 --> 00:25:28.491 chemicals and crime rate and their impact

NOTE Confidence: 0.761781965714286

00:25:28.491 --> 00:25:30.679 on brain development and childhood,

NOTE Confidence: 0.761781965714286

00:25:30.680 --> 00:25:34.210 emotional and behavioral problems.

NOTE Confidence: 0.761781965714286

00:25:34.210 --> 00:25:36.986 So the goal of this research is to

NOTE Confidence: 0.761781965714286

00:25:36.986 --> 00:25:39.470 leverage information from multiple levels,

NOTE Confidence: 0.761781965714286

00:25:39.470 --> 00:25:41.518 including the brain behaviors,

NOTE Confidence: 0.761781965714286

00:25:41.520 --> 00:25:42.850 social experience,

NOTE Confidence: 0.761781965714286

00:25:42.850 --> 00:25:45.928 and environmental factors to better inform

NOTE Confidence: 0.761781965714286

00:25:45.930 --> 00:25:50.370 prevention and treatment of your ability.

NOTE Confidence: 0.761781965714286

00:25:50.370 --> 00:25:52.445 So why do I care about your disability

NOTE Confidence: 0.761781965714286

00:25:52.450 --> 00:25:54.934 and related constructs such as anger  
NOTE Confidence: 0.761781965714286

00:25:54.934 --> 00:25:57.788 and aggression and why is it important?  
NOTE Confidence: 0.761781965714286

00:25:57.790 --> 00:26:00.106 It is important because it's common.  
NOTE Confidence: 0.761781965714286

00:26:00.110 --> 00:26:02.822 It affects about 3 to 5% of youth and  
NOTE Confidence: 0.761781965714286

00:26:02.822 --> 00:26:05.095 it is one of the most common reason  
NOTE Confidence: 0.761781965714286

00:26:05.095 --> 00:26:07.580 why kids were referred to the clinic.  
NOTE Confidence: 0.9152314375

00:26:08.640 --> 00:26:09.728 And it is trans  
NOTE Confidence: 0.85806060875

00:26:09.740 --> 00:26:11.612 diagnostic, meaning that it's  
NOTE Confidence: 0.85806060875

00:26:11.612 --> 00:26:14.390 present in many pediatric disorders,  
NOTE Confidence: 0.85806060875

00:26:14.390 --> 00:26:17.378 including ADHD, anxiety,  
NOTE Confidence: 0.85806060875

00:26:17.378 --> 00:26:20.366 depression and autism.  
NOTE Confidence: 0.85806060875

00:26:20.370 --> 00:26:22.630 And it is impairing many  
NOTE Confidence: 0.85806060875

00:26:22.630 --> 00:26:24.330 highly irritable kids.  
NOTE Confidence: 0.85806060875

00:26:24.330 --> 00:26:27.785 They have high rates of school  
NOTE Confidence: 0.85806060875

00:26:27.785 --> 00:26:29.384 suspension hospitalization service  
NOTE Confidence: 0.85806060875

00:26:29.384 --> 00:26:32.929 use and are more likely to be

NOTE Confidence: 0.85806060875

00:26:32.929 --> 00:26:34.369 on psychotropic medication.

NOTE Confidence: 0.775875

00:26:36.780 --> 00:26:39.325 And research has ocean shown that

NOTE Confidence: 0.775875

00:26:39.325 --> 00:26:41.113 early childhood irritability is

NOTE Confidence: 0.775875

00:26:41.113 --> 00:26:44.171 a strong predictor for later poor

NOTE Confidence: 0.775875

00:26:44.171 --> 00:26:47.176 outcomes in adolescence and adulthood,

NOTE Confidence: 0.775875

00:26:47.180 --> 00:26:49.170 and this includes high rates

NOTE Confidence: 0.775875

00:26:49.170 --> 00:26:50.820 of anxiety and depression,

NOTE Confidence: 0.775875

00:26:50.820 --> 00:26:54.602 high suicidality and low income,

NOTE Confidence: 0.775875

00:26:54.602 --> 00:26:57.694 and low educational attainment.

NOTE Confidence: 0.775875

00:26:57.700 --> 00:27:01.391 So in my lab we use fMRI to be able to look

NOTE Confidence: 0.775875

00:27:01.391 --> 00:27:04.565 at brain function and bring connectivity,

NOTE Confidence: 0.775875

00:27:04.570 --> 00:27:06.860 and along with the use of

NOTE Confidence: 0.775875

00:27:06.860 --> 00:27:08.820 clinical and behavioral measure,

NOTE Confidence: 0.775875

00:27:08.820 --> 00:27:11.124 we aim to better understand the

NOTE Confidence: 0.775875

00:27:11.124 --> 00:27:13.280 neural mechanism of your ability.

NOTE Confidence: 0.775875

00:27:13.280 --> 00:27:15.250 So the motivation behind this  
NOTE Confidence: 0.775875

00:27:15.250 --> 00:27:17.788 line lab research is that there  
NOTE Confidence: 0.775875

00:27:17.788 --> 00:27:20.258 is currently lack of evidence  
NOTE Confidence: 0.775875

00:27:20.258 --> 00:27:22.234 based treatment for irritability,  
NOTE Confidence: 0.775875

00:27:22.240 --> 00:27:25.220 so we hope that one day the knowledge  
NOTE Confidence: 0.775875

00:27:25.220 --> 00:27:27.740 generated in the lab can be used.  
NOTE Confidence: 0.775875

00:27:27.740 --> 00:27:30.428 In the future to guide the  
NOTE Confidence: 0.775875

00:27:30.428 --> 00:27:32.220 development of Evidencebased targeted  
NOTE Confidence: 0.775875

00:27:32.290 --> 00:27:35.610 treatment for irritability.  
NOTE Confidence: 0.775875

00:27:35.610 --> 00:27:37.968 So this is just to give you an example  
NOTE Confidence: 0.775875

00:27:37.968 --> 00:27:41.059 of one of the one of the studies that  
NOTE Confidence: 0.775875

00:27:41.059 --> 00:27:43.767 we recently completed in 195 kids  
NOTE Confidence: 0.775875

00:27:43.767 --> 00:27:47.679 ages 8 to 18 who completed a task and  
NOTE Confidence: 0.775875

00:27:47.679 --> 00:27:50.589 that's designed to frustrate them.  
NOTE Confidence: 0.775875

00:27:50.590 --> 00:27:53.369 So then we can observe the newer  
NOTE Confidence: 0.775875

00:27:53.369 --> 00:27:55.699 responses associated with irritability.

NOTE Confidence: 0.775875  
00:27:55.699 --> 00:27:59.557 So what we found is that.  
NOTE Confidence: 0.775875  
00:27:59.560 --> 00:28:00.450 Kids, uh,  
NOTE Confidence: 0.775875  
00:28:00.450 --> 00:28:02.935 the more irritable the travel is  
NOTE Confidence: 0.775875  
00:28:02.935 --> 00:28:05.905 is reported by parents and both  
NOTE Confidence: 0.775875  
00:28:05.905 --> 00:28:07.390 the child themselves,  
NOTE Confidence: 0.775875  
00:28:07.390 --> 00:28:10.380 the more activation they have  
NOTE Confidence: 0.775875  
00:28:10.380 --> 00:28:13.370 in the prefrontal cortex region,  
NOTE Confidence: 0.775875  
00:28:13.370 --> 00:28:16.135 such as this one, the singulate gyrus,  
NOTE Confidence: 0.775875  
00:28:16.140 --> 00:28:19.151 which is very important for emotion  
NOTE Confidence: 0.775875  
00:28:19.151 --> 00:28:22.019 regulation and attention control,  
NOTE Confidence: 0.775875  
00:28:22.020 --> 00:28:25.060 and this effect is particularly  
NOTE Confidence: 0.775875  
00:28:25.060 --> 00:28:27.856 strong in kids who have high  
NOTE Confidence: 0.775875  
00:28:27.856 --> 00:28:29.720 irritability and and young.  
NOTE Confidence: 0.775875  
00:28:29.720 --> 00:28:33.115 Age and so we think that this  
NOTE Confidence: 0.775875  
00:28:33.115 --> 00:28:35.553 increased as increased activity  
NOTE Confidence: 0.775875

00:28:35.553 --> 00:28:37.740 associated with irritability  
NOTE Confidence: 0.775875

00:28:37.740 --> 00:28:40.196 potentially reflect a compensatory  
NOTE Confidence: 0.775875

00:28:40.196 --> 00:28:42.652 mechanism whereby irritable kids  
NOTE Confidence: 0.775875

00:28:42.652 --> 00:28:45.388 when they're frustrated they need  
NOTE Confidence: 0.775875

00:28:45.388 --> 00:28:48.152 to recruit this Pfc region more  
NOTE Confidence: 0.775875

00:28:48.152 --> 00:28:51.410 and work harder in order to better  
NOTE Confidence: 0.775875

00:28:51.410 --> 00:28:53.690 regulate their frustration and to be  
NOTE Confidence: 0.775875

00:28:53.766 --> 00:28:56.118 able to focus on the task at hand.  
NOTE Confidence: 0.775875

00:28:56.120 --> 00:28:56.340 And  
NOTE Confidence: 0.88579024

00:28:56.350 --> 00:28:58.310 we're taking this research  
NOTE Confidence: 0.88579024

00:28:58.310 --> 00:29:01.158 further by using the brain data  
NOTE Confidence: 0.78003604875

00:29:01.190 --> 00:29:04.110 during appreciation task to  
NOTE Confidence: 0.78003604875

00:29:04.110 --> 00:29:06.300 predict longitudinal developmental  
NOTE Confidence: 0.78003604875

00:29:06.300 --> 00:29:08.415 cores of your ability,  
NOTE Confidence: 0.78003604875

00:29:08.415 --> 00:29:13.380 and we're hoping to identify brain  
NOTE Confidence: 0.78003604875

00:29:13.390 --> 00:29:17.036 signature that particularly help predict



NOTE Confidence: 0.78003604875

00:29:17.036 --> 00:29:19.728 high and persistent irritability.

NOTE Confidence: 0.78003604875

00:29:19.730 --> 00:29:21.675 Overtime, because this is the

NOTE Confidence: 0.78003604875

00:29:21.675 --> 00:29:24.161 group that's most at risk for

NOTE Confidence: 0.78003604875

00:29:24.161 --> 00:29:26.029 later anxiety and depression.

NOTE Confidence: 0.78003604875

00:29:26.030 --> 00:29:28.690 And suicidality.

NOTE Confidence: 0.78003604875

00:29:28.690 --> 00:29:32.208 So with that I would like to thank my

NOTE Confidence: 0.78003604875

00:29:32.208 --> 00:29:34.480 amazing colleagues and collaborators,

NOTE Confidence: 0.78003604875

00:29:34.480 --> 00:29:36.076 trainees and students.

NOTE Confidence: 0.78003604875

00:29:36.076 --> 00:29:38.816 Without them, this work would

NOTE Confidence: 0.78003604875

00:29:38.816 --> 00:29:41.860 not be possible and also thank

NOTE Confidence: 0.83181395

00:29:39.880 --> 00:29:40.489 you for your

NOTE Confidence: 0.821436836666667

00:29:40.950 --> 00:29:41.850 support for our

NOTE Confidence: 0.865254621666667

00:29:41.860 --> 00:29:43.708 research at the CHILD Study Center.

NOTE Confidence: 0.777921626666667

00:29:45.750 --> 00:29:50.762 Thank you honey. We're open, the virtual

NOTE Confidence: 0.777921626666667

00:29:50.762 --> 00:29:53.260 floor is open again for questions.

NOTE Confidence: 0.931196922

00:29:56.590 --> 00:29:58.850 And once again in the question  
NOTE Confidence: 0.931196922

00:29:58.850 --> 00:30:02.340 please. Thank you. Yes it's  
NOTE Confidence: 0.84710467

00:30:02.350 --> 00:30:05.660 a very interesting presentation. Thank you.  
NOTE Confidence: 0.882157674

00:30:07.080 --> 00:30:08.585 I wanted to know the brain  
NOTE Confidence: 0.882157674

00:30:08.585 --> 00:30:10.790 signature that you're looking for.  
NOTE Confidence: 0.882157674

00:30:10.790 --> 00:30:13.250 Would this then later on possibly  
NOTE Confidence: 0.826559206666667

00:30:13.260 --> 00:30:15.726 or hopefully serve as a target  
NOTE Confidence: 0.826559206666667

00:30:15.730 --> 00:30:19.196 for medication to to change this  
NOTE Confidence: 0.826559206666667

00:30:19.196 --> 00:30:21.416 pattern of irritability and prevent  
NOTE Confidence: 0.826559206666667

00:30:21.416 --> 00:30:24.250 the later consequences? Exactly  
NOTE Confidence: 0.825761193076923

00:30:24.260 --> 00:30:25.856 that's the rationale and  
NOTE Confidence: 0.825761193076923

00:30:25.856 --> 00:30:27.851 motivation behind this study is  
NOTE Confidence: 0.825761193076923

00:30:27.851 --> 00:30:30.540 to identify the neuro target.  
NOTE Confidence: 0.825761193076923

00:30:30.540 --> 00:30:33.388 Yeah, for future treatment.  
NOTE Confidence: 0.825761193076923

00:30:33.390 --> 00:30:35.740 Excellent thank you for your question.  
NOTE Confidence: 0.895387646666667

00:30:37.900 --> 00:30:39.250 Any other questions?

NOTE Confidence: 0.7916738

00:30:47.060 --> 00:30:51.181 OK. So sure, and I believe I understand

NOTE Confidence: 0.7916738

00:30:51.181 --> 00:30:53.278 that your computer is back alive.

NOTE Confidence: 0.86228861

00:30:59.830 --> 00:31:03.848 Hello, I'm sorry about that technical glitch.

NOTE Confidence: 0.86228861

00:31:03.850 --> 00:31:05.878 Good afternoon esteemed

NOTE Confidence: 0.86228861

00:31:05.878 --> 00:31:08.630 guests and your colleagues.

NOTE Confidence: 0.86228861

00:31:08.630 --> 00:31:10.130 My name is sheriff sharing law.

NOTE Confidence: 0.86228861

00:31:10.130 --> 00:31:13.224 I'm a fourth year resident in psychiatry

NOTE Confidence: 0.86228861

00:31:13.230 --> 00:31:16.334 here at here and I'm also a hilibrand

NOTE Confidence: 0.86228861

00:31:16.334 --> 00:31:18.653 autism research fellow in the mug

NOTE Confidence: 0.86228861

00:31:18.653 --> 00:31:20.849 pattern lab where we study brain

NOTE Confidence: 0.86228861

00:31:20.927 --> 00:31:23.419 mechanisms in social neuroscience.

NOTE Confidence: 0.86228861

00:31:23.420 --> 00:31:25.772 I'm here to talk about a project

NOTE Confidence: 0.86228861

00:31:25.772 --> 00:31:27.402 we're planning on neuromodulation

NOTE Confidence: 0.86228861

00:31:27.402 --> 00:31:29.606 for depression in autism.

NOTE Confidence: 0.86228861

00:31:29.610 --> 00:31:31.976 As we explore early behavioral and brain

NOTE Confidence: 0.86228861

00:31:31.976 --> 00:31:34.589 effects of our brain stimulation method,  
NOTE Confidence: 0.86228861

00:31:34.590 --> 00:31:38.350 like transcranial magnetic stimulation.  
NOTE Confidence: 0.86228861

00:31:38.350 --> 00:31:39.528 In autism spectrum,  
NOTE Confidence: 0.86228861

00:31:39.528 --> 00:31:42.391 we know that there is a significant  
NOTE Confidence: 0.86228861

00:31:42.391 --> 00:31:44.850 burden of Co occurring mental  
NOTE Confidence: 0.86228861

00:31:44.850 --> 00:31:46.826 health conditions like depression.  
NOTE Confidence: 0.86228861

00:31:46.830 --> 00:31:49.430 It is estimated that nearly one out of  
NOTE Confidence: 0.86228861

00:31:49.430 --> 00:31:52.028 every two individuals with autism will  
NOTE Confidence: 0.86228861

00:31:52.028 --> 00:31:54.836 have a lifetime diagnosis of depression.  
NOTE Confidence: 0.86228861

00:31:54.840 --> 00:31:58.088 In a large population study out of Denmark,  
NOTE Confidence: 0.86228861

00:31:58.090 --> 00:32:00.028 where they looked at six and  
NOTE Confidence: 0.86228861

00:32:00.028 --> 00:32:01.320 a half million individuals,  
NOTE Confidence: 0.86228861

00:32:01.320 --> 00:32:04.659 they found that individuals with autism were  
NOTE Confidence: 0.86228861

00:32:04.659 --> 00:32:08.169 four times more likely to die of suicide,  
NOTE Confidence: 0.86228861

00:32:08.170 --> 00:32:10.970 and if you were an autistic female,  
NOTE Confidence: 0.86228861

00:32:10.970 --> 00:32:13.154 you had an 8 times higher

NOTE Confidence: 0.86228861

00:32:13.154 --> 00:32:15.360 risk of a suicidal attempt.

NOTE Confidence: 0.86228861

00:32:15.360 --> 00:32:17.286 So the question that we're all

NOTE Confidence: 0.86228861

00:32:17.286 --> 00:32:18.894 immediately inclined to think

NOTE Confidence: 0.86228861

00:32:18.894 --> 00:32:21.599 of is how do we prevent this?

NOTE Confidence: 0.86228861

00:32:21.600 --> 00:32:23.031 In this study,

NOTE Confidence: 0.86228861

00:32:23.031 --> 00:32:26.150 they also found that 90% of the cases of.

NOTE Confidence: 0.86228861

00:32:26.150 --> 00:32:29.174 Suicide had an underlying mental health

NOTE Confidence: 0.86228861

00:32:29.174 --> 00:32:31.490 condition like depression and so.

NOTE Confidence: 0.86228861

00:32:31.490 --> 00:32:34.220 How do we treat that?

NOTE Confidence: 0.86228861

00:32:34.220 --> 00:32:36.125 This blank slide kind of sums up

NOTE Confidence: 0.86228861

00:32:36.125 --> 00:32:37.772 what we know about the treatment

NOTE Confidence: 0.86228861

00:32:37.772 --> 00:32:39.468 of depression for individuals.

NOTE Confidence: 0.86228861

00:32:39.470 --> 00:32:39.910 Autism.

NOTE Confidence: 0.86228861

00:32:39.910 --> 00:32:43.870 At this point there are some studies on CBT,

NOTE Confidence: 0.86228861

00:32:43.870 --> 00:32:46.708 mindfulness or handful of medication trials,

NOTE Confidence: 0.86228861

00:32:46.710 --> 00:32:48.260 but we really don't have  
NOTE Confidence: 0.86228861

00:32:48.260 --> 00:32:49.190 a specific treatment.  
NOTE Confidence: 0.86228861

00:32:49.190 --> 00:32:51.626 What we do know is that there's  
NOTE Confidence: 0.86228861

00:32:51.626 --> 00:32:53.330 higher utilization of services.  
NOTE Confidence: 0.86228861

00:32:53.330 --> 00:32:55.470 People are on multiple medications,  
NOTE Confidence: 0.86228861

00:32:55.470 --> 00:32:58.290 intensive therapies fully tolerate their  
NOTE Confidence: 0.86228861

00:32:58.290 --> 00:33:01.110 medications and often don't respond,  
NOTE Confidence: 0.86228861

00:33:01.110 --> 00:33:03.570 making them treatment resistant.  
NOTE Confidence: 0.86228861

00:33:03.570 --> 00:33:06.645 This is where transcranial magnetic  
NOTE Confidence: 0.86228861

00:33:06.645 --> 00:33:08.567 stimulation or TMS comes in.  
NOTE Confidence: 0.86228861

00:33:08.570 --> 00:33:11.198 It has been an FDA approved.  
NOTE Confidence: 0.86228861

00:33:11.200 --> 00:33:13.424 Treatment for treatment resistant  
NOTE Confidence: 0.86228861

00:33:13.424 --> 00:33:14.968 depression since 2008,  
NOTE Confidence: 0.86228861

00:33:14.968 --> 00:33:17.833 it was first designed in 1985 and if  
NOTE Confidence: 0.86228861

00:33:17.833 --> 00:33:19.960 you were to look at Pub Med today,  
NOTE Confidence: 0.86228861

00:33:19.960 --> 00:33:22.690 you'll find close to 19,800

NOTE Confidence: 0.86228861

00:33:22.690 --> 00:33:24.770 scientific articles on TMS.

NOTE Confidence: 0.86228861

00:33:24.770 --> 00:33:27.430 It is effective and it is safe,

NOTE Confidence: 0.86228861

00:33:27.430 --> 00:33:29.310 but how does it work?

NOTE Confidence: 0.86228861

00:33:29.310 --> 00:33:31.114 Demonstrating that on this

NOTE Confidence: 0.86228861

00:33:31.114 --> 00:33:34.180 silhouette of a head using principles

NOTE Confidence: 0.86228861

00:33:34.180 --> 00:33:36.700 described by Michael Faraday,

NOTE Confidence: 0.86228861

00:33:36.700 --> 00:33:39.652 the physicist will place a magnetic

NOTE Confidence: 0.86228861

00:33:39.652 --> 00:33:41.682 coil touching the surface of your head.

NOTE Confidence: 0.86228861

00:33:41.682 --> 00:33:43.518 And if you were to pass

NOTE Confidence: 0.86228861

00:33:43.518 --> 00:33:44.980 electric current through that,

NOTE Confidence: 0.86228861

00:33:44.980 --> 00:33:47.200 it would generate a magnetic field,

NOTE Confidence: 0.86228861

00:33:47.200 --> 00:33:49.555 and that in turn would induce

NOTE Confidence: 0.86228861

00:33:49.555 --> 00:33:51.350 an electric current that would

NOTE Confidence: 0.86228861

00:33:51.418 --> 00:33:53.150 stimulate your brain cells.

NOTE Confidence: 0.86228861

00:33:53.150 --> 00:33:55.190 In this picture on the right.

NOTE Confidence: 0.86228861

00:33:55.190 --> 00:33:57.980 Cassie and Maggie are excellent neuroscience.

NOTE Confidence: 0.86228861

00:33:57.980 --> 00:33:59.408 Fellows are standing next

NOTE Confidence: 0.86228861

00:33:59.408 --> 00:34:01.193 to our maxdome TMS device,

NOTE Confidence: 0.86228861

00:34:01.200 --> 00:34:03.846 with Cassie sitting on the chair with

NOTE Confidence: 0.86228861

00:34:03.846 --> 00:34:07.081 the TMS coil placed on her head as it

NOTE Confidence: 0.86228861

00:34:07.081 --> 00:34:10.210 would for a treatment participants.

NOTE Confidence: 0.86228861

00:34:10.210 --> 00:34:11.850 The area of the brain that we're

NOTE Confidence: 0.86228861

00:34:11.850 --> 00:34:13.140 interested in is in the front.

NOTE Confidence: 0.86228861

00:34:13.140 --> 00:34:14.750 It's the dorsal lateral prefrontal

NOTE Confidence: 0.86228861

00:34:14.750 --> 00:34:18.020 cortex and we believe that it is

NOTE Confidence: 0.86228861

00:34:18.020 --> 00:34:19.708 responsible for mood regulation.

NOTE Confidence: 0.86228861

00:34:19.710 --> 00:34:22.300 When we target this region in depression,

NOTE Confidence: 0.86228861

00:34:22.300 --> 00:34:25.040 we get remission rates of around 33%,

NOTE Confidence: 0.86228861

00:34:25.040 --> 00:34:27.112 which is significant if you consider

NOTE Confidence: 0.86228861

00:34:27.112 --> 00:34:29.520 that these are people who failed four

NOTE Confidence: 0.857255183571429

00:34:29.590 --> 00:34:31.538 or more antidepressant trials,



NOTE Confidence: 0.857255183571429  
00:34:31.540 --> 00:34:33.571 and for individuals who are treatment naive,  
NOTE Confidence: 0.857255183571429  
00:34:33.571 --> 00:34:36.210 that number goes up to 75%,  
NOTE Confidence: 0.857255183571429  
00:34:36.210 --> 00:34:38.269 which is again significant if  
NOTE Confidence: 0.857255183571429  
00:34:38.269 --> 00:34:40.783 you think about groups who may  
NOTE Confidence: 0.857255183571429  
00:34:40.783 --> 00:34:43.110 not be tolerating medications.  
NOTE Confidence: 0.857255183571429  
00:34:43.110 --> 00:34:45.506 So to summarize our study, we are  
NOTE Confidence: 0.857255183571429  
00:34:45.506 --> 00:34:48.739 applying TMS to this part of the brain.  
NOTE Confidence: 0.857255183571429  
00:34:48.740 --> 00:34:50.123 And capturing changes.  
NOTE Confidence: 0.857255183571429  
00:34:50.123 --> 00:34:53.810 We look at the EG. This is a video  
NOTE Confidence: 0.857255183571429  
00:34:53.810 --> 00:34:56.290 of an EG recording from our lab.  
NOTE Confidence: 0.857255183571429  
00:34:56.290 --> 00:34:58.260 We look at eye tracking.  
NOTE Confidence: 0.857255183571429  
00:34:58.260 --> 00:35:00.652 When we study how the eyes fixate  
NOTE Confidence: 0.857255183571429  
00:35:00.652 --> 00:35:02.789 on particular parts of an image,  
NOTE Confidence: 0.857255183571429  
00:35:02.790 --> 00:35:05.490 we also look at behavioral measures.  
NOTE Confidence: 0.857255183571429  
00:35:05.490 --> 00:35:06.790 For example,  
NOTE Confidence: 0.857255183571429

00:35:06.790 --> 00:35:10.672 participants watch videos of these two  
NOTE Confidence: 0.857255183571429

00:35:10.672 --> 00:35:13.308 triangles that seem to be interacting  
NOTE Confidence: 0.857255183571429

00:35:13.308 --> 00:35:15.804 with each other and their responses  
NOTE Confidence: 0.857255183571429

00:35:15.804 --> 00:35:18.186 would indicate their social perception,  
NOTE Confidence: 0.857255183571429

00:35:18.186 --> 00:35:21.820 and so we hope to understand what brain  
NOTE Confidence: 0.857255183571429

00:35:21.820 --> 00:35:25.110 changes occur with treatment like TMS and so.  
NOTE Confidence: 0.857255183571429

00:35:25.110 --> 00:35:28.130 Finally speaking about hope.  
NOTE Confidence: 0.857255183571429

00:35:28.130 --> 00:35:31.010 In a recent pilot trial of GMs with  
NOTE Confidence: 0.857255183571429

00:35:31.010 --> 00:35:34.350 depression and autism, they found.  
NOTE Confidence: 0.857255183571429

00:35:34.350 --> 00:35:36.320 Is 70%.  
NOTE Confidence: 0.857255183571429

00:35:36.320 --> 00:35:37.440 Response rate,  
NOTE Confidence: 0.857255183571429

00:35:37.440 --> 00:35:40.062 and we believe that as we understand  
NOTE Confidence: 0.857255183571429

00:35:40.062 --> 00:35:43.016 how to modulate changes in the brain,  
NOTE Confidence: 0.857255183571429

00:35:43.020 --> 00:35:45.580 we can design better treatments.  
NOTE Confidence: 0.857255183571429

00:35:45.580 --> 00:35:48.040 It takes we effort and tremendous  
NOTE Confidence: 0.857255183571429

00:35:48.040 --> 00:35:51.019 talent of everyone listed here and in

NOTE Confidence: 0.857255183571429

00:35:51.019 --> 00:35:53.483 this pandemic selfie to do this work.

NOTE Confidence: 0.857255183571429

00:35:53.490 --> 00:35:55.464 I am so grateful to Jamie for

NOTE Confidence: 0.857255183571429

00:35:55.464 --> 00:35:57.069 being my mentor and friend.

NOTE Confidence: 0.857255183571429

00:35:57.070 --> 00:35:58.696 We are grateful to the Slifka

NOTE Confidence: 0.857255183571429

00:35:58.696 --> 00:36:00.509 Foundation for helping us get started

NOTE Confidence: 0.857255183571429

00:36:00.509 --> 00:36:01.857 and the Hilibrand Foundation.

NOTE Confidence: 0.857255183571429

00:36:01.860 --> 00:36:03.468 Your support really lets me do

NOTE Confidence: 0.857255183571429

00:36:03.468 --> 00:36:05.269 this work and I'm so thankful.

NOTE Confidence: 0.857255183571429

00:36:05.270 --> 00:36:07.286 I hope I've been able to convey to you.

NOTE Confidence: 0.857255183571429

00:36:07.290 --> 00:36:09.082 The timely need for this kind of

NOTE Confidence: 0.857255183571429

00:36:09.082 --> 00:36:11.520 research and I thank you all for your

NOTE Confidence: 0.857255183571429

00:36:11.520 --> 00:36:13.130 time and your continued partnership.

NOTE Confidence: 0.857255183571429

00:36:13.130 --> 00:36:13.640 Thank you.

NOTE Confidence: 0.8695303975

00:36:15.890 --> 00:36:19.117 It's so much fun, so let's let's

NOTE Confidence: 0.8695303975

00:36:19.117 --> 00:36:21.979 open the floor for questions.

NOTE Confidence: 0.8695303975

00:36:21.980 --> 00:36:23.150 Questions, comments.  
NOTE Confidence: 0.9638449

00:36:25.400 --> 00:36:31.360 I have a question, yes, so your work showed  
NOTE Confidence: 0.94869383

00:36:31.360 --> 00:36:33.196 that using this type of magnet  
NOTE Confidence: 0.94869383

00:36:33.196 --> 00:36:35.010 was helpful with the depression.  
NOTE Confidence: 0.94869383

00:36:35.010 --> 00:36:38.354 Did it have any effect on the autism?  
NOTE Confidence: 0.94869383

00:36:38.360 --> 00:36:39.523 Or like you know,  
NOTE Confidence: 0.94869383

00:36:39.523 --> 00:36:40.888 in any adaptive behavior score  
NOTE Confidence: 0.94153254

00:36:40.900 --> 00:36:41.800 or something like that?  
NOTE Confidence: 0.90933595

00:36:43.570 --> 00:36:45.136 That that's such a great question.  
NOTE Confidence: 0.90933595

00:36:45.140 --> 00:36:46.710 I think that really fuels  
NOTE Confidence: 0.90933595

00:36:46.710 --> 00:36:48.280 the work that we're doing.  
NOTE Confidence: 0.90933595

00:36:48.280 --> 00:36:50.683 I think the consensus right now is that we  
NOTE Confidence: 0.90933595

00:36:50.683 --> 00:36:53.057 need more data and better design studies.  
NOTE Confidence: 0.90933595

00:36:53.060 --> 00:36:54.556 For example, we're collaborating  
NOTE Confidence: 0.90933595

00:36:54.556 --> 00:36:56.426 with the group in Australia,  
NOTE Confidence: 0.90933595

00:36:56.430 --> 00:36:57.122 Identocard Group,

NOTE Confidence: 0.90933595

00:36:57.122 --> 00:36:58.852 where they're looking at specifically

NOTE Confidence: 0.90933595

00:36:58.852 --> 00:37:00.748 targeting a different part of the brain,

NOTE Confidence: 0.90933595

00:37:00.750 --> 00:37:03.102 not the front, but the temporal

NOTE Confidence: 0.90933595

00:37:03.102 --> 00:37:05.963 parietal junction to see if there are

NOTE Confidence: 0.90933595

00:37:05.963 --> 00:37:08.399 actual changes in the autism symptoms

NOTE Confidence: 0.90933595

00:37:08.399 --> 00:37:10.934 persist within the autism symptoms.

NOTE Confidence: 0.90933595

00:37:10.934 --> 00:37:11.996 Executive functioning,

NOTE Confidence: 0.90933595

00:37:12.000 --> 00:37:12.878 repetitive behavior.

NOTE Confidence: 0.90933595

00:37:12.878 --> 00:37:15.073 And social perception are areas

NOTE Confidence: 0.90933595

00:37:15.073 --> 00:37:17.486 that are being looked at as

NOTE Confidence: 0.90933595

00:37:17.486 --> 00:37:19.370 potential for being changed,

NOTE Confidence: 0.90933595

00:37:19.370 --> 00:37:21.474 and we are also engaged in a study

NOTE Confidence: 0.90933595

00:37:21.474 --> 00:37:23.266 where we're looking at if we can.

NOTE Confidence: 0.90933595

00:37:23.270 --> 00:37:24.845 When we target a different part of the brain,

NOTE Confidence: 0.90933595

00:37:24.850 --> 00:37:26.960 which is the posterior superior

NOTE Confidence: 0.90933595

00:37:26.960 --> 00:37:27.804 temporal sulcus?  
NOTE Confidence: 0.90933595

00:37:27.810 --> 00:37:30.708 Can we, by targeting that region change,  
NOTE Confidence: 0.90933595

00:37:30.710 --> 00:37:32.744 social perception such that this stress  
NOTE Confidence: 0.90933595

00:37:32.744 --> 00:37:34.878 that some individuals face because of  
NOTE Confidence: 0.90933595

00:37:34.878 --> 00:37:36.678 their difficulty in social perception?  
NOTE Confidence: 0.90933595

00:37:36.680 --> 00:37:37.780 Maybe we can help treat  
NOTE Confidence: 0.943349116666667

00:37:37.790 --> 00:37:38.300 some of that.  
NOTE Confidence: 0.88601211

00:37:39.800 --> 00:37:42.136 If I can ask another question on that,  
NOTE Confidence: 0.88601211

00:37:42.140 --> 00:37:44.324 how often did you have to treat the  
NOTE Confidence: 0.88601211

00:37:44.324 --> 00:37:46.190 people or the individuals before  
NOTE Confidence: 0.88601211

00:37:46.190 --> 00:37:48.398 you saw positive results? Is it?  
NOTE Confidence: 0.88601211

00:37:48.398 --> 00:37:50.281 And is it something that you would  
NOTE Confidence: 0.88601211

00:37:50.281 --> 00:37:52.317 predict needs like sustained treatment?  
NOTE Confidence: 0.88601211

00:37:52.320 --> 00:37:53.762 Or is it something where you could  
NOTE Confidence: 0.88601211

00:37:53.762 --> 00:37:55.225 have whatever your course was and  
NOTE Confidence: 0.88601211

00:37:55.225 --> 00:37:56.335 then you didn't need to treat

NOTE Confidence: 0.88601211

00:37:56.335 --> 00:37:57.830 it very often or periodically?

NOTE Confidence: 0.899479224375

00:37:59.160 --> 00:38:01.527 And again, so we are yet to do those

NOTE Confidence: 0.899479224375

00:38:01.527 --> 00:38:03.375 trials in our lab at this point.

NOTE Confidence: 0.899479224375

00:38:03.380 --> 00:38:05.264 But based on the work that's

NOTE Confidence: 0.899479224375

00:38:05.264 --> 00:38:07.054 already been done, people have

NOTE Confidence: 0.899479224375

00:38:07.054 --> 00:38:09.164 found initial the initial response.

NOTE Confidence: 0.899479224375

00:38:09.170 --> 00:38:11.340 But then around the six month mark,

NOTE Confidence: 0.899479224375

00:38:11.340 --> 00:38:12.820 it seems to fade away,

NOTE Confidence: 0.899479224375

00:38:12.820 --> 00:38:14.434 which kind of reflects the treatment

NOTE Confidence: 0.899479224375

00:38:14.434 --> 00:38:16.066 of depression in the community where

NOTE Confidence: 0.899479224375

00:38:16.066 --> 00:38:18.328 you do an acute treatment and then you

NOTE Confidence: 0.899479224375

00:38:18.328 --> 00:38:19.919 have some maintenance down the road,

NOTE Confidence: 0.899479224375

00:38:19.920 --> 00:38:22.072 and we hope that as we better design

NOTE Confidence: 0.899479224375

00:38:22.072 --> 00:38:23.439 trials will have clearer answers

NOTE Confidence: 0.899479224375

00:38:23.439 --> 00:38:25.640 as to not not just how to treat,

NOTE Confidence: 0.899479224375

00:38:25.640 --> 00:38:26.846 but how long to treat for.  
NOTE Confidence: 0.89454984875

00:38:29.430 --> 00:38:31.299 We have a question in the chat  
NOTE Confidence: 0.89454984875

00:38:31.299 --> 00:38:33.432 which is can you comment on how  
NOTE Confidence: 0.89454984875

00:38:33.432 --> 00:38:35.334 well TMS is tolerated and people  
NOTE Confidence: 0.89454984875

00:38:35.396 --> 00:38:37.260 with autism spectrum disorder?  
NOTE Confidence: 0.928511914666667

00:38:38.410 --> 00:38:40.834 Absolutely, and I think that that is a  
NOTE Confidence: 0.928511914666667

00:38:40.834 --> 00:38:43.110 very important question for us to consider.  
NOTE Confidence: 0.928511914666667

00:38:43.110 --> 00:38:45.166 Even as we plan our study and and  
NOTE Confidence: 0.928511914666667

00:38:45.166 --> 00:38:46.798 the trials that are going on,  
NOTE Confidence: 0.928511914666667

00:38:46.800 --> 00:38:48.630 especially if you have, for example,  
NOTE Confidence: 0.928511914666667

00:38:48.630 --> 00:38:50.242 a sensory integration difficulties.  
NOTE Confidence: 0.928511914666667

00:38:50.242 --> 00:38:52.660 That makes it that much harder.  
NOTE Confidence: 0.928511914666667

00:38:52.660 --> 00:38:54.605 I will comment those saying  
NOTE Confidence: 0.928511914666667

00:38:54.605 --> 00:38:56.550 that people do tolerate it,  
NOTE Confidence: 0.928511914666667

00:38:56.550 --> 00:38:59.850 just as in the general population,  
NOTE Confidence: 0.928511914666667

00:38:59.850 --> 00:39:01.713 and some people might have difficulties,



NOTE Confidence: 0.928511914666667  
00:39:01.713 --> 00:39:03.768 but the way it's being  
NOTE Confidence: 0.928511914666667  
00:39:03.770 --> 00:39:05.162 administered right now,  
NOTE Confidence: 0.928511914666667  
00:39:05.162 --> 00:39:06.854 the the dosing can also be.  
NOTE Confidence: 0.928511914666667  
00:39:06.860 --> 00:39:08.670 So when you administer TMS.  
NOTE Confidence: 0.928511914666667  
00:39:08.670 --> 00:39:10.154 You can also alter the dose so  
NOTE Confidence: 0.928511914666667  
00:39:10.154 --> 00:39:11.781 that you don't have to give a  
NOTE Confidence: 0.928511914666667  
00:39:11.781 --> 00:39:13.191 higher dose that is less tolerable.  
NOTE Confidence: 0.928511914666667  
00:39:13.200 --> 00:39:15.472 You can give a low dose that's more  
NOTE Confidence: 0.928511914666667  
00:39:15.472 --> 00:39:17.267 tolerable and may be as effective,  
NOTE Confidence: 0.928511914666667  
00:39:17.270 --> 00:39:18.647 and so that is the way in which some  
NOTE Confidence: 0.928511914666667  
00:39:18.647 --> 00:39:20.160 of these trials are being designed.  
NOTE Confidence: 0.739652195  
00:39:21.530 --> 00:39:24.738 Cute. Additional questions may  
NOTE Confidence: 0.813507736666667  
00:39:24.750 --> 00:39:25.629 I also ask  
NOTE Confidence: 0.826215332  
00:39:25.640 --> 00:39:27.590 what age group to date you  
NOTE Confidence: 0.826215332  
00:39:27.590 --> 00:39:29.250 personally have been working with?  
NOTE Confidence: 0.81286639125

00:39:30.940 --> 00:39:33.292 So I worked as a neuro development  
NOTE Confidence: 0.81286639125

00:39:33.292 --> 00:39:35.627 psychiatrist in India if I came over to EU.  
NOTE Confidence: 0.81286639125

00:39:35.630 --> 00:39:37.830 S. To kind of do my training again and get  
NOTE Confidence: 0.81286639125

00:39:37.885 --> 00:39:39.709 this wonderful opportunity at the CHILD  
NOTE Confidence: 0.81286639125

00:39:39.709 --> 00:39:42.390 Study Center to do this work actively.  
NOTE Confidence: 0.81286639125

00:39:42.390 --> 00:39:44.546 I administered TMS actively in the 18  
NOTE Confidence: 0.81286639125

00:39:44.546 --> 00:39:47.425 to 65 age group where I I work at the  
NOTE Confidence: 0.81286639125

00:39:47.425 --> 00:39:49.758 VA here where we we have a TMS clinic  
NOTE Confidence: 0.81286639125

00:39:49.758 --> 00:39:52.314 and I do that kind of work and the hope  
NOTE Confidence: 0.81286639125

00:39:52.314 --> 00:39:54.378 is then to translate this work into  
NOTE Confidence: 0.81286639125

00:39:54.378 --> 00:39:56.590 younger populations as we find you know,  
NOTE Confidence: 0.81286639125

00:39:56.590 --> 00:39:58.179 it being more effective in that group.  
NOTE Confidence: 0.81286639125

00:39:58.210 --> 00:39:59.250 Yes, and  
NOTE Confidence: 0.73998078

00:39:59.260 --> 00:40:00.480 that's what and all of  
NOTE Confidence: 0.86496539125

00:40:00.490 --> 00:40:02.578 these. People you've worked with our  
NOTE Confidence: 0.86496539125

00:40:02.578 --> 00:40:05.130 with autism or in general with PMS.

NOTE Confidence: 0.901253482

00:40:06.160 --> 00:40:07.850 So like I mentioned earlier,

NOTE Confidence: 0.901253482

00:40:07.850 --> 00:40:10.142 a lot of times the treatment

NOTE Confidence: 0.901253482

00:40:10.142 --> 00:40:12.522 resistance that we see there might

NOTE Confidence: 0.901253482

00:40:12.522 --> 00:40:15.210 be an undiagnosed autistic spectrum.

NOTE Confidence: 0.901253482

00:40:15.210 --> 00:40:17.366 And for example I do have one

NOTE Confidence: 0.901253482

00:40:17.366 --> 00:40:19.559 individual that I'm treating right now.

NOTE Confidence: 0.901253482

00:40:19.560 --> 00:40:21.506 22 year old male and he has

NOTE Confidence: 0.901253482

00:40:21.506 --> 00:40:23.035 undiagnosed autism and he is

NOTE Confidence: 0.901253482

00:40:23.035 --> 00:40:24.303 tolerating his treatments well

NOTE Confidence: 0.901253482

00:40:24.303 --> 00:40:26.300 and starting to show improvement.

NOTE Confidence: 0.901253482

00:40:26.300 --> 00:40:27.362 So that gives me hope for

NOTE Confidence: 0.901253482

00:40:27.362 --> 00:40:28.290 the kind of work that

NOTE Confidence: 0.908664622857143

00:40:28.300 --> 00:40:30.519 we're doing and what is the frequency

NOTE Confidence: 0.908664622857143

00:40:30.520 --> 00:40:32.070 of the treatment of the sessions.

NOTE Confidence: 0.867505114705883

00:40:32.770 --> 00:40:35.970 Initially it would be once a day for

NOTE Confidence: 0.867505114705883

00:40:35.970 --> 00:40:39.384 five days a week for up to 20 sessions,  
NOTE Confidence: 0.867505114705883

00:40:39.390 --> 00:40:40.874 and then you start tapering it off.  
NOTE Confidence: 0.867505114705883

00:40:40.880 --> 00:40:42.320 But then there are different protocols.  
NOTE Confidence: 0.867505114705883

00:40:42.320 --> 00:40:44.380 There are absolutely accelerated  
NOTE Confidence: 0.867505114705883

00:40:44.380 --> 00:40:46.156 protocols now where you can finish  
NOTE Confidence: 0.867505114705883

00:40:46.156 --> 00:40:47.749 the entire treatment in a week.  
NOTE Confidence: 0.867505114705883

00:40:47.750 --> 00:40:49.927 And so the field is really evolving  
NOTE Confidence: 0.867505114705883

00:40:49.927 --> 00:40:52.010 and we're trying to be part of  
NOTE Confidence: 0.867505114705883

00:40:52.010 --> 00:40:53.478 that change at this moment.  
NOTE Confidence: 0.955185135

00:40:54.080 --> 00:40:57.422 Thank you very much. And to everyone,  
NOTE Confidence: 0.955185135

00:40:57.422 --> 00:40:59.830 just Jamie has put a statement in  
NOTE Confidence: 0.955185135

00:40:59.904 --> 00:41:02.178 the chat about a consensus statement  
NOTE Confidence: 0.955185135

00:41:02.178 --> 00:41:05.016 that speaks to the tolerability of  
NOTE Confidence: 0.955185135

00:41:05.016 --> 00:41:07.146 TMS in autism spectrum disorder.  
NOTE Confidence: 0.955185135

00:41:07.150 --> 00:41:08.900 So thank you Jamie for doing that.  
NOTE Confidence: 0.834374648888889

00:41:11.690 --> 00:41:14.822 So thank you, share for for

NOTE Confidence: 0.834374648888889  
00:41:14.822 --> 00:41:16.968 presenting appreciate it windy.  
NOTE Confidence: 0.834374648888889  
00:41:16.968 --> 00:41:21.740 May I ask you to? Come.  
NOTE Confidence: 0.834374648888889  
00:41:21.740 --> 00:41:23.048 Come virtually forward.  
NOTE Confidence: 0.821853301428571  
00:41:49.590 --> 00:41:50.955 You see, do you see my screen?  
NOTE Confidence: 0.825288665  
00:41:51.310 --> 00:41:53.879 Yeah, but you just need to go  
NOTE Confidence: 0.825288665  
00:41:53.879 --> 00:41:55.919 to slideshow icon down below.  
NOTE Confidence: 0.825288665  
00:41:55.920 --> 00:41:58.338 Do you see this screen icon?  
NOTE Confidence: 0.825288665  
00:41:58.340 --> 00:41:59.760 OK, got it. Thank you.  
NOTE Confidence: 0.825288665  
00:41:59.760 --> 00:42:00.728 Then go up there.  
NOTE Confidence: 0.86621292375  
00:42:01.780 --> 00:42:02.828 Thank you, thank you,  
NOTE Confidence: 0.86621292375  
00:42:02.828 --> 00:42:03.876 thank you very much.  
NOTE Confidence: 0.86621292375  
00:42:03.880 --> 00:42:06.274 Thank you very very much and thank  
NOTE Confidence: 0.86621292375  
00:42:06.274 --> 00:42:08.911 you all for the honor to present  
NOTE Confidence: 0.86621292375  
00:42:08.911 --> 00:42:10.452 at today's associates meeting.  
NOTE Confidence: 0.86621292375  
00:42:10.452 --> 00:42:12.768 I'm really thrilled to be here.  
NOTE Confidence: 0.86621292375

00:42:12.770 --> 00:42:15.297 I'd like to begin by showing the  
NOTE Confidence: 0.86621292375

00:42:15.297 --> 00:42:18.068 amazing team of that we have now  
NOTE Confidence: 0.86621292375

00:42:18.068 --> 00:42:19.756 consisting of postdoctoral Fellows,  
NOTE Confidence: 0.86621292375

00:42:19.760 --> 00:42:20.454 postgraduate associates,  
NOTE Confidence: 0.86621292375

00:42:20.454 --> 00:42:22.883 and I want to give a special  
NOTE Confidence: 0.86621292375

00:42:22.883 --> 00:42:24.985 shout out to Grace Hamill of a  
NOTE Confidence: 0.86621292375

00:42:24.985 --> 00:42:26.590 lab manager and special thanks.  
NOTE Confidence: 0.86621292375

00:42:26.590 --> 00:42:28.786 To Eli Lebowitz and Colin Moran,  
NOTE Confidence: 0.86621292375

00:42:28.790 --> 00:42:30.750 who have been with me since I  
NOTE Confidence: 0.86621292375

00:42:30.750 --> 00:42:32.278 first came to Yale in 2013.  
NOTE Confidence: 0.86621292375

00:42:32.278 --> 00:42:34.854 I also want to thank you, the associates,  
NOTE Confidence: 0.86621292375

00:42:34.854 --> 00:42:36.968 for you supported the CHILD Study Center.  
NOTE Confidence: 0.86621292375

00:42:36.970 --> 00:42:38.853 And for those of you who have  
NOTE Confidence: 0.86621292375

00:42:38.853 --> 00:42:40.140 supported the anxiety program,  
NOTE Confidence: 0.86621292375

00:42:40.140 --> 00:42:43.050 thank you so very much.  
NOTE Confidence: 0.86621292375

00:42:43.050 --> 00:42:45.516 This is what I'm going to be speaking about.

NOTE Confidence: 0.86621292375

00:42:45.520 --> 00:42:48.439 What do we know finally about enhancing

NOTE Confidence: 0.86621292375

00:42:48.439 --> 00:42:50.809 CBT outcomes for child anxiety?

NOTE Confidence: 0.86621292375

00:42:50.810 --> 00:42:51.818 And what's next?

NOTE Confidence: 0.8853136

00:42:54.680 --> 00:42:57.528 Some background CBT is the

NOTE Confidence: 0.8853136

00:42:57.528 --> 00:43:00.820 strongest evidence based treatment.

NOTE Confidence: 0.8853136

00:43:00.820 --> 00:43:02.362 Depending on how you look at it, though,

NOTE Confidence: 0.8853136

00:43:02.362 --> 00:43:04.810 the glass is either half empty or half full.

NOTE Confidence: 0.8853136

00:43:04.810 --> 00:43:07.232 It's half full because in most trials

NOTE Confidence: 0.8853136

00:43:07.232 --> 00:43:10.770 50 to 60% of the children respond,

NOTE Confidence: 0.8853136

00:43:10.770 --> 00:43:13.080 but that means half empty.

NOTE Confidence: 0.8853136

00:43:13.080 --> 00:43:17.049 Almost that many also do not respond.

NOTE Confidence: 0.8853136

00:43:17.050 --> 00:43:20.191 It has been a journey for the field and

NOTE Confidence: 0.8853136

00:43:20.191 --> 00:43:23.355 for myself for 30 years to figure out

NOTE Confidence: 0.8853136

00:43:23.355 --> 00:43:26.949 what can we do to add parents to their

NOTE Confidence: 0.8853136

00:43:26.950 --> 00:43:29.926 child's treatment to get enhanced outcome.

NOTE Confidence: 0.8853136

00:43:29.930 --> 00:43:30.534 It takes.  
NOTE Confidence: 0.8853136

00:43:30.534 --> 00:43:32.950 I've been doing this for 30 years 'cause  
NOTE Confidence: 0.8853136

00:43:33.013 --> 00:43:35.477 it takes anywhere from at least five to  
NOTE Confidence: 0.8853136

00:43:35.477 --> 00:43:38.086 seven years to conduct one randomized trial,  
NOTE Confidence: 0.8853136

00:43:38.090 --> 00:43:40.246 and that doesn't include them getting it.  
NOTE Confidence: 0.8853136

00:43:40.250 --> 00:43:40.822 You know,  
NOTE Confidence: 0.8853136

00:43:40.822 --> 00:43:42.538 writing it up and publishing it,  
NOTE Confidence: 0.8853136

00:43:42.540 --> 00:43:45.996 so it's been a long journey.  
NOTE Confidence: 0.8853136

00:43:46.000 --> 00:43:49.568 And what the field has shown and these  
NOTE Confidence: 0.8853136

00:43:49.568 --> 00:43:52.740 are two of my trials that I've done one.  
NOTE Confidence: 0.8853136

00:43:52.740 --> 00:43:55.799 Looked at CBT and parents versus compared  
NOTE Confidence: 0.8853136

00:43:55.799 --> 00:43:58.298 to individual the other one group  
NOTE Confidence: 0.8853136

00:43:58.300 --> 00:44:00.820 CBT and parents compared with group.  
NOTE Confidence: 0.8853136

00:44:00.820 --> 00:44:03.646 We're thrilled that everybody is improving.  
NOTE Confidence: 0.8853136

00:44:03.650 --> 00:44:05.950 That's great.  
NOTE Confidence: 0.8853136

00:44:05.950 --> 00:44:06.258 However,



NOTE Confidence: 0.8853136

00:44:06.258 --> 00:44:09.030 we were hoping to see if we can get

NOTE Confidence: 0.8853136

00:44:09.107 --> 00:44:11.615 enhanced outcomes and this in the red

NOTE Confidence: 0.8853136

00:44:11.615 --> 00:44:14.232 in the bottom is a recent meta analysis

NOTE Confidence: 0.8853136

00:44:14.232 --> 00:44:17.095 that showed what we've been saying for

NOTE Confidence: 0.8853136

00:44:17.166 --> 00:44:19.882 decades now that CBT in pounds does

NOTE Confidence: 0.8853136

00:44:19.882 --> 00:44:23.250 not confer advantage over individual.

NOTE Confidence: 0.8853136

00:44:23.250 --> 00:44:24.710 This is an enigma.

NOTE Confidence: 0.8853136

00:44:24.710 --> 00:44:27.130 It's a conundrum, but when one looks

NOTE Confidence: 0.8853136

00:44:27.130 --> 00:44:29.630 at these now over these 30 years,

NOTE Confidence: 0.8853136

00:44:29.630 --> 00:44:31.290 the studies you will find

NOTE Confidence: 0.8853136

00:44:31.290 --> 00:44:32.950 that most of these studies.

NOTE Confidence: 0.8853136

00:44:32.950 --> 00:44:35.337 First of all, they're all over many

NOTE Confidence: 0.8853136

00:44:35.337 --> 00:44:37.269 many different variables and mechanisms.

NOTE Confidence: 0.8853136

00:44:37.270 --> 00:44:38.335 Second of all,

NOTE Confidence: 0.8853136

00:44:38.335 --> 00:44:40.110 in many of these studies,

NOTE Confidence: 0.8853136

00:44:40.110 --> 00:44:42.900 the mechanisms are very poorly described.

NOTE Confidence: 0.8853136

00:44:42.900 --> 00:44:44.705 They're also extremely rare to

NOTE Confidence: 0.8853136

00:44:44.705 --> 00:44:46.510 ever been ever been measured,

NOTE Confidence: 0.8853136

00:44:46.510 --> 00:44:48.166 since somebody might be trying to

NOTE Confidence: 0.8853136

00:44:48.166 --> 00:44:49.270 change something with apparent,

NOTE Confidence: 0.8853136

00:44:49.270 --> 00:44:50.860 but they never measure it.

NOTE Confidence: 0.8853136

00:44:50.860 --> 00:44:53.339 But besides the research, those of us.

NOTE Confidence: 0.8853136

00:44:53.339 --> 00:44:55.097 You know who have parents and

NOTE Confidence: 0.8853136

00:44:55.097 --> 00:44:57.036 those of us who are not parents.

NOTE Confidence: 0.8853136

00:44:57.040 --> 00:45:00.296 We know it's hard to change parents behavior,

NOTE Confidence: 0.8853136

00:45:00.300 --> 00:45:02.617 especially in a short amount of time,

NOTE Confidence: 0.8853136

00:45:02.620 --> 00:45:04.620 especially in a very,

NOTE Confidence: 0.8853136

00:45:04.620 --> 00:45:06.620 very complicated dynamic between

NOTE Confidence: 0.8853136

00:45:06.620 --> 00:45:08.300 children and parents.

NOTE Confidence: 0.8853136

00:45:08.300 --> 00:45:08.996 I'm sorry,

NOTE Confidence: 0.8853136

00:45:08.996 --> 00:45:11.780 but the yellow gets to the heart of

NOTE Confidence: 0.8853136

00:45:11.856 --> 00:45:14.663 what over these years would I have

NOTE Confidence: 0.8853136

00:45:14.663 --> 00:45:17.792 distilled based on the work that in the

NOTE Confidence: 0.8853136

00:45:17.792 --> 00:45:20.085 mechanisms appear to be side control,

NOTE Confidence: 0.8853136

00:45:20.085 --> 00:45:22.695 reducing payment site control and reducing

NOTE Confidence: 0.8853136

00:45:22.695 --> 00:45:25.590 parents use of negative reinforcement.

NOTE Confidence: 0.8853136

00:45:25.590 --> 00:45:29.466 That is removing a negative event

NOTE Confidence: 0.8853136

00:45:29.470 --> 00:45:32.004 and in the case of child anxiety

NOTE Confidence: 0.8853136

00:45:32.010 --> 00:45:33.858 this is what that would look like.

NOTE Confidence: 0.8853136

00:45:33.860 --> 00:45:35.810 Site control they act like

NOTE Confidence: 0.8853136

00:45:35.810 --> 00:45:37.980 they own me at the bottom one.

NOTE Confidence: 0.8853136

00:45:37.980 --> 00:45:39.226 Look at the thing of the panel

NOTE Confidence: 0.8853136

00:45:39.230 --> 00:45:41.114 before this one where the child

NOTE Confidence: 0.8853136

00:45:41.114 --> 00:45:43.239 is crying and upset and and then,

NOTE Confidence: 0.8853136

00:45:43.240 --> 00:45:44.185 lo and behold,

NOTE Confidence: 0.8853136

00:45:44.185 --> 00:45:46.075 the Charles happy because the trial

NOTE Confidence: 0.8853136

00:45:46.075 --> 00:45:48.318 is now in the parents bed that has  
NOTE Confidence: 0.8853136

00:45:48.318 --> 00:45:50.488 will move the trials negative state.  
NOTE Confidence: 0.8853136

00:45:50.490 --> 00:45:53.238 These are examples.  
NOTE Confidence: 0.8853136

00:45:53.240 --> 00:45:57.139 We did the first and only trial.  
NOTE Confidence: 0.8853136

00:45:57.140 --> 00:46:01.506 That dismantled and specifically  
NOTE Confidence: 0.8853136

00:46:01.506 --> 00:46:05.234 concretized these parents mechanisms.  
NOTE Confidence: 0.8853136

00:46:05.240 --> 00:46:08.136 I want you to pay attention to the  
NOTE Confidence: 0.8853136

00:46:08.136 --> 00:46:09.864 red 'cause that's where we got  
NOTE Confidence: 0.8853136

00:46:09.864 --> 00:46:12.050 the the most important findings.  
NOTE Confidence: 0.8853136

00:46:12.050 --> 00:46:13.570 So we had CPT alone  
NOTE Confidence: 0.916451116

00:46:13.570 --> 00:46:15.770 with two different parent conditions,  
NOTE Confidence: 0.916451116

00:46:15.770 --> 00:46:17.094 large and single site.  
NOTE Confidence: 0.916451116

00:46:17.094 --> 00:46:20.192 A large sample size and we found in the  
NOTE Confidence: 0.916451116

00:46:20.192 --> 00:46:22.607 red when we trained very concretely to  
NOTE Confidence: 0.916451116

00:46:22.679 --> 00:46:25.319 reduce pain and negative reinforcement,  
NOTE Confidence: 0.916451116

00:46:25.320 --> 00:46:27.350 it decreased and it was

NOTE Confidence: 0.916451116

00:46:27.350 --> 00:46:28.974 indeed associated with it.

NOTE Confidence: 0.916451116

00:46:28.980 --> 00:46:31.370 Decrease in child anxiety outcome

NOTE Confidence: 0.916451116

00:46:31.370 --> 00:46:33.908 when we targeted and we measured

NOTE Confidence: 0.916451116

00:46:33.908 --> 00:46:36.401 site control it decrease and it

NOTE Confidence: 0.916451116

00:46:36.401 --> 00:46:38.579 was in fact associated with a

NOTE Confidence: 0.916451116

00:46:38.579 --> 00:46:41.019 reduction in child anxiety outcome.

NOTE Confidence: 0.916451116

00:46:41.020 --> 00:46:42.046 Here's with findings.

NOTE Confidence: 0.916451116

00:46:42.046 --> 00:46:45.130 Happy face at this paper was just published.

NOTE Confidence: 0.916451116

00:46:45.130 --> 00:46:45.991 Like you know,

NOTE Confidence: 0.916451116

00:46:45.991 --> 00:46:48.000 very short time ago the red colored

NOTE Confidence: 0.916451116

00:46:48.065 --> 00:46:50.305 lines are showing the two payment arms.

NOTE Confidence: 0.916451116

00:46:50.310 --> 00:46:52.548 The black is the individual CBT.

NOTE Confidence: 0.916451116

00:46:52.550 --> 00:46:54.670 Overtime we find reductions

NOTE Confidence: 0.916451116

00:46:54.670 --> 00:46:56.790 based on child ratings,

NOTE Confidence: 0.916451116

00:46:56.790 --> 00:46:57.596 parent ratings,

NOTE Confidence: 0.916451116

00:46:57.596 --> 00:47:01.153 other measures that I can't put up here now

NOTE Confidence: 0.916451116

00:47:01.153 --> 00:47:04.469 and I'm based on child and parent reports.

NOTE Confidence: 0.916451116

00:47:04.470 --> 00:47:05.778 And as I said,

NOTE Confidence: 0.916451116

00:47:05.778 --> 00:47:08.010 other measures and over over follow up.

NOTE Confidence: 0.916451116

00:47:08.010 --> 00:47:11.150 So what we finally know.

NOTE Confidence: 0.916451116

00:47:11.150 --> 00:47:13.485 From this long journey is that if we

NOTE Confidence: 0.916451116

00:47:13.485 --> 00:47:16.247 want to try to enhance child anxiety,

NOTE Confidence: 0.916451116

00:47:16.250 --> 00:47:19.015 CBT try to reduce payments I control,

NOTE Confidence: 0.916451116

00:47:19.020 --> 00:47:20.868 try to reduce pain and use

NOTE Confidence: 0.916451116

00:47:20.868 --> 00:47:21.792 of negative reinforcement.

NOTE Confidence: 0.916451116

00:47:21.800 --> 00:47:23.500 These reductions associated with

NOTE Confidence: 0.916451116

00:47:23.500 --> 00:47:25.625 child anxiety outcome and they're

NOTE Confidence: 0.916451116

00:47:25.625 --> 00:47:27.398 likely key parent mechanisms.

NOTE Confidence: 0.9220594075

00:47:29.500 --> 00:47:32.764 This is what I'm super now excited about

NOTE Confidence: 0.9220594075

00:47:32.770 --> 00:47:35.034 because I'm seeing the fruits of this work.

NOTE Confidence: 0.9220594075

00:47:35.040 --> 00:47:37.791 I believe that if we want to

NOTE Confidence: 0.9220594075

00:47:37.791 --> 00:47:39.700 get sustained strong effects,

NOTE Confidence: 0.9220594075

00:47:39.700 --> 00:47:42.200 we need something more available,

NOTE Confidence: 0.9220594075

00:47:42.200 --> 00:47:44.545 more ubiquitous and working on

NOTE Confidence: 0.9220594075

00:47:44.545 --> 00:47:46.890 a digital intervention is now

NOTE Confidence: 0.9220594075

00:47:46.970 --> 00:47:49.160 what I'm very excited about.

NOTE Confidence: 0.9220594075

00:47:49.160 --> 00:47:52.280 We're working on this and we're trying to.

NOTE Confidence: 0.9220594075

00:47:52.280 --> 00:47:54.734 We hope to get pulmonary data

NOTE Confidence: 0.9220594075

00:47:54.734 --> 00:47:56.370 to support further development.

NOTE Confidence: 0.9220594075

00:47:56.370 --> 00:47:58.715 Now those of you out there might

NOTE Confidence: 0.9220594075

00:47:58.715 --> 00:48:00.328 who use apps? You might say, oh,

NOTE Confidence: 0.9220594075

00:48:00.328 --> 00:48:01.599 but there must be an app for this.

NOTE Confidence: 0.9220594075

00:48:01.600 --> 00:48:03.240 Well, actually there was recently

NOTE Confidence: 0.9220594075

00:48:03.240 --> 00:48:05.335 a review published, just you know,

NOTE Confidence: 0.9220594075

00:48:05.335 --> 00:48:07.260 not in this in 2021.

NOTE Confidence: 0.9220594075

00:48:07.260 --> 00:48:10.480 Basically saying yes there were apps but.

NOTE Confidence: 0.9220594075

00:48:10.480 --> 00:48:11.638 None of them.  
NOTE Confidence: 0.9220594075

00:48:11.638 --> 00:48:13.954 Most of them are assessed based.  
NOTE Confidence: 0.9220594075

00:48:13.960 --> 00:48:16.020 There's never been one studied  
NOTE Confidence: 0.9220594075

00:48:16.020 --> 00:48:18.080 in a randomized control trial.  
NOTE Confidence: 0.9220594075

00:48:18.080 --> 00:48:21.032 Not one exists based on targeting  
NOTE Confidence: 0.9220594075

00:48:21.032 --> 00:48:22.930 payment mechanisms, and even if they did,  
NOTE Confidence: 0.9220594075

00:48:22.930 --> 00:48:24.200 they wouldn't be based on the  
NOTE Confidence: 0.9220594075

00:48:24.200 --> 00:48:25.580 science that I've just shown you,  
NOTE Confidence: 0.9220594075

00:48:25.580 --> 00:48:27.410 because many of these apps is  
NOTE Confidence: 0.9220594075

00:48:27.410 --> 00:48:29.363 just developed by people who are  
NOTE Confidence: 0.9220594075

00:48:29.363 --> 00:48:30.715 not working with scientists.  
NOTE Confidence: 0.9220594075

00:48:30.720 --> 00:48:32.826 So imagine what can happen if  
NOTE Confidence: 0.9220594075

00:48:32.826 --> 00:48:35.429 there is some type of ubiquitous  
NOTE Confidence: 0.9220594075

00:48:35.429 --> 00:48:37.097 available tool for parents.  
NOTE Confidence: 0.9220594075

00:48:37.097 --> 00:48:40.139 So I would like to just end by  
NOTE Confidence: 0.9220594075

00:48:40.139 --> 00:48:42.389 thanking you all so much for.



NOTE Confidence: 0.9220594075

00:48:42.390 --> 00:48:44.676 Allowing me to have the privilege

NOTE Confidence: 0.9220594075

00:48:44.676 --> 00:48:47.835 and with the team to try to fill this

NOTE Confidence: 0.9220594075

00:48:47.835 --> 00:48:49.806 glass up with knowledge and to try

NOTE Confidence: 0.9220594075

00:48:49.806 --> 00:48:52.166 to help children and to try to help

NOTE Confidence: 0.9220594075

00:48:52.166 --> 00:48:53.666 parents of children with anxiety.

NOTE Confidence: 0.9220594075

00:48:53.670 --> 00:48:55.494 So thank you very much for your attention.

NOTE Confidence: 0.9220594075

00:48:56.450 --> 00:48:57.720 Question

NOTE Confidence: 0.6059039033333333

00:48:57.720 --> 00:48:59.450 Mrs. Reagan Hotel in Dallas.

NOTE Confidence: 0.6059039033333333

00:48:59.450 --> 00:49:03.610 When you're talking about parent control,

NOTE Confidence: 0.6059039033333333

00:49:03.610 --> 00:49:05.580 is it the child's perception

NOTE Confidence: 0.84691934

00:49:05.610 --> 00:49:07.120 of parent control or what?

NOTE Confidence: 0.873188732

00:49:07.490 --> 00:49:08.760 What? What are you measuring

NOTE Confidence: 0.884694146

00:49:08.770 --> 00:49:12.470 when you say parent control? Yeah, so.

NOTE Confidence: 0.852062125

00:49:12.470 --> 00:49:13.610 And I want to be really,

NOTE Confidence: 0.852062125

00:49:13.610 --> 00:49:14.450 really clear on this.

NOTE Confidence: 0.852062125

00:49:14.450 --> 00:49:16.080 And you know this is not at all.  
NOTE Confidence: 0.852062125

00:49:16.080 --> 00:49:17.850 But you know Pam and blame  
NOTE Confidence: 0.852062125

00:49:17.850 --> 00:49:19.030 or anything like that.  
NOTE Confidence: 0.852062125

00:49:19.030 --> 00:49:20.640 I I want to just make you,  
NOTE Confidence: 0.852062125

00:49:20.640 --> 00:49:22.356 you know, make that really clear.  
NOTE Confidence: 0.852062125

00:49:22.360 --> 00:49:25.098 But you know there there is though a  
NOTE Confidence: 0.852062125

00:49:25.098 --> 00:49:27.834 lot of evidence about certain behaviors  
NOTE Confidence: 0.852062125

00:49:27.834 --> 00:49:30.820 that parents do and and it is specific  
NOTE Confidence: 0.852062125

00:49:30.820 --> 00:49:32.450 to payments of anxious children.  
NOTE Confidence: 0.852062125

00:49:32.450 --> 00:49:34.418 I should say when people look at these  
NOTE Confidence: 0.852062125

00:49:34.418 --> 00:49:35.948 same pounds with other children,  
NOTE Confidence: 0.852062125

00:49:35.950 --> 00:49:37.570 you don't see that same behavior.  
NOTE Confidence: 0.852062125

00:49:37.570 --> 00:49:39.604 So that's why the business dynamic  
NOTE Confidence: 0.852062125

00:49:39.604 --> 00:49:41.809 between parents and their anxious child.  
NOTE Confidence: 0.852062125

00:49:41.810 --> 00:49:42.810 So I mean the.  
NOTE Confidence: 0.852062125

00:49:42.810 --> 00:49:44.296 Type of thing would be more like.

NOTE Confidence: 0.852062125

00:49:44.296 --> 00:49:46.762 I'm kind of like the one

NOTE Confidence: 0.852062125

00:49:46.762 --> 00:49:48.467 example was the guilt induction,

NOTE Confidence: 0.852062125

00:49:48.470 --> 00:49:49.526 which is like you know what?

NOTE Confidence: 0.852062125

00:49:49.530 --> 00:49:50.694 Why are you afraid you know

NOTE Confidence: 0.852062125

00:49:50.694 --> 00:49:51.720 your brother can do this,

NOTE Confidence: 0.852062125

00:49:51.720 --> 00:49:53.656 but you know don't be a Sissy or

NOTE Confidence: 0.852062125

00:49:53.656 --> 00:49:55.440 like you know I know you know,

NOTE Confidence: 0.852062125

00:49:55.440 --> 00:49:57.726 so that's that's the kind of type of thing.

NOTE Confidence: 0.852062125

00:49:57.730 --> 00:49:59.390 It's so it's that kind of like as I said

NOTE Confidence: 0.852062125

00:49:59.439 --> 00:50:01.185 in that slide you know that kind of guilt,

NOTE Confidence: 0.852062125

00:50:01.190 --> 00:50:04.907 induction and trying to reduce that by?

NOTE Confidence: 0.852062125

00:50:04.910 --> 00:50:05.538 Yeah yeah.

NOTE Confidence: 0.852062125

00:50:05.538 --> 00:50:07.736 So that's what we mean by that.

NOTE Confidence: 0.852062125

00:50:07.740 --> 00:50:09.240 Does that answer your question?

NOTE Confidence: 0.852062125

00:50:09.240 --> 00:50:09.520 Yes,

NOTE Confidence: 0.852062125

00:50:09.520 --> 00:50:09.800 kind  
NOTE Confidence: 0.941068962142857  
00:50:09.810 --> 00:50:12.002 of, although I would, I would have defined  
NOTE Confidence: 0.941068962142857  
00:50:12.002 --> 00:50:13.999 what you just described as negative  
NOTE Confidence: 0.911863735  
00:50:14.010 --> 00:50:16.596 reinforcement as opposed to parent control.  
NOTE Confidence: 0.89515378  
00:50:17.660 --> 00:50:19.200 Well, I mean we can, it's,  
NOTE Confidence: 0.89515378  
00:50:19.200 --> 00:50:20.400 you know it's is it.  
NOTE Confidence: 0.89515378  
00:50:20.400 --> 00:50:22.242 You know you saw that big  
NOTE Confidence: 0.89515378  
00:50:22.242 --> 00:50:23.163 selectable dependent variable.  
NOTE Confidence: 0.89515378  
00:50:23.170 --> 00:50:25.492 So they're all ways of measuring  
NOTE Confidence: 0.89515378  
00:50:25.492 --> 00:50:27.040 this and operationalizing it.  
NOTE Confidence: 0.89515378  
00:50:27.040 --> 00:50:29.430 And and I just want to say there is,  
NOTE Confidence: 0.89515378  
00:50:29.430 --> 00:50:30.678 I'm happy to share with you.  
NOTE Confidence: 0.89515378  
00:50:30.680 --> 00:50:31.744 There's a, you know,  
NOTE Confidence: 0.89515378  
00:50:31.744 --> 00:50:33.702 the concept of sight control has been  
NOTE Confidence: 0.89515378  
00:50:33.702 --> 00:50:35.232 actually in the developmental literature  
NOTE Confidence: 0.89515378  
00:50:35.232 --> 00:50:37.319 for like half a century in fact,

NOTE Confidence: 0.89515378

00:50:37.320 --> 00:50:39.312 so I didn't create that and so and

NOTE Confidence: 0.89515378

00:50:39.312 --> 00:50:41.498 so it is a little bit different.

NOTE Confidence: 0.89515378

00:50:41.500 --> 00:50:43.270 'cause again, the negative reinforcement is.

NOTE Confidence: 0.922256775

00:50:44.480 --> 00:50:45.608 You know, if you go back

NOTE Confidence: 0.94737802

00:50:45.620 --> 00:50:48.060 to the cartoon, I'm sorry.

NOTE Confidence: 0.94737802

00:50:48.060 --> 00:50:49.284 Negative reinforcement is

NOTE Confidence: 0.94737802

00:50:49.284 --> 00:50:51.528 rescuing or exactly thank you.

NOTE Confidence: 0.94737802

00:50:51.528 --> 00:50:53.672 It's rescuing. It's a rescue.

NOTE Confidence: 0.94737802

00:50:53.672 --> 00:50:55.026 Yeah, exactly exactly.

NOTE Confidence: 0.94737802

00:50:55.026 --> 00:50:56.764 Negative reinforcements are very,

NOTE Confidence: 0.94737802

00:50:56.764 --> 00:50:57.730 very high concept,

NOTE Confidence: 0.94737802

00:50:57.730 --> 00:50:59.484 but you know the best example is when

NOTE Confidence: 0.94737802

00:50:59.484 --> 00:51:00.828 you have a headache and you take,

NOTE Confidence: 0.94737802

00:51:00.830 --> 00:51:01.962 and that's really distressing.

NOTE Confidence: 0.94737802

00:51:01.962 --> 00:51:03.377 You take an aspirin that

NOTE Confidence: 0.94737802

00:51:03.377 --> 00:51:04.699 gets Twitter the headache.  
NOTE Confidence: 0.94737802

00:51:04.700 --> 00:51:06.470 That's why we keep taking aspirin.  
NOTE Confidence: 0.94737802

00:51:06.470 --> 00:51:07.880 So that's a perfect example  
NOTE Confidence: 0.94737802

00:51:07.880 --> 00:51:08.726 of negative reinforcement  
NOTE Confidence: 0.94737802

00:51:08.726 --> 00:51:11.026 that I always like to use.  
NOTE Confidence: 0.94737802

00:51:11.026 --> 00:51:12.350 Thank you for your Question  
NOTE Confidence: 0.8455484

00:51:13.040 --> 00:51:14.340 Time for one more question,  
NOTE Confidence: 0.8455484

00:51:14.340 --> 00:51:15.510 Carol Schaefer had  
NOTE Confidence: 0.8455484

00:51:15.510 --> 00:51:17.070 submitted a question about.  
NOTE Confidence: 0.8455484

00:51:17.070 --> 00:51:19.030 Can you talk about Carol?  
NOTE Confidence: 0.8455484

00:51:19.030 --> 00:51:21.430 Be sure I'm framing this question  
NOTE Confidence: 0.8455484

00:51:21.430 --> 00:51:23.030 correctly about anxiety across  
NOTE Confidence: 0.8455484

00:51:23.100 --> 00:51:25.746 development and how your research  
NOTE Confidence: 0.8455484

00:51:25.746 --> 00:51:29.210 is addressing different ages. Carol,  
NOTE Confidence: 0.7876132533333333

00:51:29.280 --> 00:51:30.999 I can always count on Cole for a really,  
NOTE Confidence: 0.7876132533333333

00:51:31.000 --> 00:51:31.720 really hard question,

NOTE Confidence: 0.7876132533333333  
00:51:31.720 --> 00:51:33.160 but thank you Carol for that.  
NOTE Confidence: 0.7876132533333333  
00:51:33.160 --> 00:51:34.160 Great question.  
NOTE Confidence: 0.7876132533333333  
00:51:34.160 --> 00:51:36.020 We actually are in the anxiety  
NOTE Confidence: 0.7876132533333333  
00:51:36.020 --> 00:51:37.948 program working across development.  
NOTE Confidence: 0.7876132533333333  
00:51:37.948 --> 00:51:41.720 I do want to say so. We work from  
NOTE Confidence: 0.7876132533333333  
00:51:41.720 --> 00:51:43.950 the ages of salt with age or six.  
NOTE Confidence: 0.7876132533333333  
00:51:43.950 --> 00:51:47.504 We we are not going yet younger although I  
NOTE Confidence: 0.7876132533333333  
00:51:47.504 --> 00:51:50.658 I do work with the people in development,  
NOTE Confidence: 0.7876132533333333  
00:51:50.658 --> 00:51:53.048 the toddler layout we're doing some work  
NOTE Confidence: 0.7876132533333333  
00:51:53.048 --> 00:51:55.577 with but we work from age 6 and you know,  
NOTE Confidence: 0.7876132533333333  
00:51:55.580 --> 00:51:58.726 and Ellie and Yuri Burger are working with.  
NOTE Confidence: 0.7876132533333333  
00:51:58.726 --> 00:52:00.294 All the way up to young adults with  
NOTE Confidence: 0.7876132533333333  
00:52:00.294 --> 00:52:01.668 the family to launch projects.  
NOTE Confidence: 0.7876132533333333  
00:52:01.670 --> 00:52:04.280 So we are working across the lifespan in the.  
NOTE Confidence: 0.7876132533333333  
00:52:04.280 --> 00:52:06.275 In terms of this app I'm working,  
NOTE Confidence: 0.7876132533333333

00:52:06.280 --> 00:52:08.449 I'm going to talk at this to middle school

NOTE Confidence: 0.7876132533333333

00:52:08.449 --> 00:52:10.565 is I'm going to target middle school.

NOTE Confidence: 0.7876132533333333

00:52:10.570 --> 00:52:12.754 It's 'cause I believe that is

NOTE Confidence: 0.7876132533333333

00:52:12.754 --> 00:52:14.880 the pivotal group I believe.

NOTE Confidence: 0.7876132533333333

00:52:14.880 --> 00:52:16.140 I think the data show this.

NOTE Confidence: 0.7876132533333333

00:52:16.140 --> 00:52:18.245 It's that transition into middle

NOTE Confidence: 0.7876132533333333

00:52:18.245 --> 00:52:20.350 school where most things happen

NOTE Confidence: 0.7876132533333333

00:52:20.424 --> 00:52:22.587 with kids with the peers and and

NOTE Confidence: 0.7876132533333333

00:52:22.587 --> 00:52:24.839 and those kind of risky behaviors.

NOTE Confidence: 0.7876132533333333

00:52:24.840 --> 00:52:26.366 And so we're going to be targeting

NOTE Confidence: 0.7876132533333333

00:52:26.366 --> 00:52:27.379 middle schoolers with the app.

NOTE Confidence: 0.7876132533333333

00:52:27.380 --> 00:52:29.039 But in terms of the anxiety program.

NOTE Confidence: 0.7876132533333333

00:52:29.040 --> 00:52:32.106 Research and clinical services go across

NOTE Confidence: 0.7876132533333333

00:52:32.110 --> 00:52:34.190 young childhood through young adulthood.

NOTE Confidence: 0.900521368

00:52:35.120 --> 00:52:38.789 Thank you so much, Wendy. Thank you, Soraya.

NOTE Confidence: 0.83600414

00:52:43.130 --> 00:52:45.160 Oh hi everyone.



NOTE Confidence: 0.89960999875

00:52:47.630 --> 00:52:49.654 I hope you can see my my screen.

NOTE Confidence: 0.825932388

00:52:50.440 --> 00:52:52.910 Yes, it looks perfect. Thanks

NOTE Confidence: 0.823827639545454

00:52:53.090 --> 00:52:54.029 so high everyone.

NOTE Confidence: 0.823827639545454

00:52:54.029 --> 00:52:57.019 It's a pleasure for me to be here and

NOTE Confidence: 0.823827639545454

00:52:57.019 --> 00:52:59.546 speak about our new organized model of

NOTE Confidence: 0.823827639545454

00:52:59.546 --> 00:53:02.634 human brain development. I'm sure I ask.

NOTE Confidence: 0.823827639545454

00:53:02.634 --> 00:53:04.414 Barry and Associates are scientists

NOTE Confidence: 0.823827639545454

00:53:04.414 --> 00:53:07.380 in the Vaccarino's lab where we

NOTE Confidence: 0.823827639545454

00:53:07.380 --> 00:53:09.135 model neurodevelopmental disorder.

NOTE Confidence: 0.823827639545454

00:53:09.140 --> 00:53:11.228 Like all these men trapped for

NOTE Confidence: 0.823827639545454

00:53:11.228 --> 00:53:13.378 several years by using this system,

NOTE Confidence: 0.823827639545454

00:53:13.378 --> 00:53:16.066 please visit our website For more

NOTE Confidence: 0.823827639545454

00:53:16.066 --> 00:53:18.594 information about the other project.

NOTE Confidence: 0.823827639545454

00:53:18.594 --> 00:53:21.462 But So what are brain organoids?

NOTE Confidence: 0.823827639545454

00:53:21.470 --> 00:53:24.550 So we can generate them from Donald patients?

NOTE Confidence: 0.823827639545454

00:53:24.550 --> 00:53:25.526 Somatic cells?  
NOTE Confidence: 0.823827639545454

00:53:25.526 --> 00:53:27.478 Like the fibroblast here,  
NOTE Confidence: 0.823827639545454

00:53:27.480 --> 00:53:30.304 and they're redoing it down to a stem  
NOTE Confidence: 0.823827639545454

00:53:30.304 --> 00:53:33.079 cell fate that can be done differentiate  
NOTE Confidence: 0.823827639545454

00:53:33.079 --> 00:53:35.600 in many kind of mature cells.  
NOTE Confidence: 0.823827639545454

00:53:35.600 --> 00:53:38.134 So in our body like kidney muscles  
NOTE Confidence: 0.823827639545454

00:53:38.134 --> 00:53:41.946 and in our lab we are specialized in  
NOTE Confidence: 0.823827639545454

00:53:41.946 --> 00:53:44.058 generate neurons brain organoids.  
NOTE Confidence: 0.823827639545454

00:53:44.060 --> 00:53:47.308 Please here you can see like a brain  
NOTE Confidence: 0.823827639545454

00:53:47.308 --> 00:53:49.908 organoids are under the microscope.  
NOTE Confidence: 0.823827639545454

00:53:49.910 --> 00:53:53.760 These are three dimensional cultures.  
NOTE Confidence: 0.823827639545454

00:53:53.760 --> 00:53:57.218 Cluster of stem cells. And new ones.  
NOTE Confidence: 0.823827639545454

00:53:57.220 --> 00:53:59.740 But so why we are really focusing  
NOTE Confidence: 0.823827639545454

00:53:59.740 --> 00:54:00.820 on studying organoids?  
NOTE Confidence: 0.823827639545454

00:54:00.820 --> 00:54:03.760 Because most of the child neuropsychiatry  
NOTE Confidence: 0.823827639545454

00:54:03.760 --> 00:54:06.249 disorders arise during brain development

NOTE Confidence: 0.823827639545454

00:54:06.249 --> 00:54:08.979 and we know that one fundamental

NOTE Confidence: 0.823827639545454

00:54:08.979 --> 00:54:11.287 obstacles beside the species species

NOTE Confidence: 0.823827639545454

00:54:11.287 --> 00:54:14.332 differences is have access to the brain.

NOTE Confidence: 0.823827639545454

00:54:14.340 --> 00:54:16.564 And so there is and look at their

NOTE Confidence: 0.823827639545454

00:54:16.564 --> 00:54:18.580 cells that are specialized cells.

NOTE Confidence: 0.823827639545454

00:54:18.580 --> 00:54:20.974 That's why we there is an urgent

NOTE Confidence: 0.823827639545454

00:54:20.974 --> 00:54:24.081 need of a human cell based models

NOTE Confidence: 0.823827639545454

00:54:24.081 --> 00:54:26.077 to study these disorders.

NOTE Confidence: 0.823827639545454

00:54:26.080 --> 00:54:28.894 And they organize have become a very

NOTE Confidence: 0.823827639545454

00:54:28.894 --> 00:54:31.127 powerful tools because as I told you,

NOTE Confidence: 0.823827639545454

00:54:31.130 --> 00:54:32.958 like today are retained,

NOTE Confidence: 0.823827639545454

00:54:32.958 --> 00:54:35.700 they have the same genetic background

NOTE Confidence: 0.823827639545454

00:54:35.775 --> 00:54:38.487 of the donor and so we can feature

NOTE Confidence: 0.823827639545454

00:54:38.487 --> 00:54:40.296 recap Italy there the future

NOTE Confidence: 0.823827639545454

00:54:40.296 --> 00:54:42.408 of a disorder in the dish.

NOTE Confidence: 0.823827639545454

00:54:42.410 --> 00:54:45.532 And also we can study them over  
NOTE Confidence: 0.823827639545454

00:54:45.532 --> 00:54:48.740 time and see how they say evolve.  
NOTE Confidence: 0.823827639545454

00:54:48.740 --> 00:54:52.740 And we can also use for drug discovery  
NOTE Confidence: 0.823827639545454

00:54:52.740 --> 00:54:56.139 and genetically manipulate them.  
NOTE Confidence: 0.823827639545454

00:54:56.140 --> 00:54:59.140 And then recently we are in trying also  
NOTE Confidence: 0.823827639545454

00:54:59.140 --> 00:55:02.793 to a better adapted system to generate  
NOTE Confidence: 0.823827639545454

00:55:02.793 --> 00:55:06.247 different human brain regions as many  
NOTE Confidence: 0.823827639545454

00:55:06.247 --> 00:55:09.017 are affected in various disorders.  
NOTE Confidence: 0.823827639545454

00:55:09.020 --> 00:55:12.036 So here on the left I'm showing you  
NOTE Confidence: 0.823827639545454

00:55:12.036 --> 00:55:15.359 a nice fMRI of you want an embryo  
NOTE Confidence: 0.823827639545454

00:55:15.359 --> 00:55:18.051 stage where you can appreciate the  
NOTE Confidence: 0.823827639545454

00:55:18.051 --> 00:55:21.376 words well our brain come from that  
NOTE Confidence: 0.823827639545454

00:55:21.376 --> 00:55:24.755 is basically this along neural crest  
NOTE Confidence: 0.823827639545454

00:55:24.755 --> 00:55:27.650 structure that it's full formation  
NOTE Confidence: 0.823827639545454

00:55:27.743 --> 00:55:30.563 and subdivision rely on a small  
NOTE Confidence: 0.823827639545454

00:55:30.563 --> 00:55:32.962 molecules that we called morphogens

NOTE Confidence: 0.823827639545454

00:55:32.962 --> 00:55:36.386 that if we imagine so this is our

NOTE Confidence: 0.823827639545454

00:55:36.386 --> 00:55:39.050 neural tube are secreted in different.

NOTE Confidence: 0.823827639545454

00:55:39.050 --> 00:55:41.930 Regions of the neural tube and their

NOTE Confidence: 0.823827639545454

00:55:41.930 --> 00:55:44.677 cells that occupy and form the neural tube.

NOTE Confidence: 0.823827639545454

00:55:44.680 --> 00:55:47.420 They sense these morphogens,

NOTE Confidence: 0.823827639545454

00:55:47.420 --> 00:55:49.250 so if you look here on the bottom,

NOTE Confidence: 0.823827639545454

00:55:49.250 --> 00:55:51.308 I imagine all of these are the

NOTE Confidence: 0.823827639545454

00:55:51.308 --> 00:55:53.239 training cells on the neural tube.

NOTE Confidence: 0.823827639545454

00:55:53.240 --> 00:55:56.000 They sense the morphogen concentration

NOTE Confidence: 0.823827639545454

00:55:56.000 --> 00:55:58.970 and other respond they activate

NOTE Confidence: 0.823827639545454

00:55:58.970 --> 00:56:00.407 the specific genes,

NOTE Confidence: 0.823827639545454

00:56:00.407 --> 00:56:03.281 and so acquiring a specific faith

NOTE Confidence: 0.823827639545454

00:56:03.281 --> 00:56:05.946 so they will become blue cells

NOTE Confidence: 0.823827639545454

00:56:05.946 --> 00:56:08.390 or white cells and so on.

NOTE Confidence: 0.823827639545454

00:56:08.390 --> 00:56:11.603 So our hypothesis that we can model

NOTE Confidence: 0.823827639545454

00:56:11.603 --> 00:56:14.089 the different brain regions and  
NOTE Confidence: 0.823827639545454

00:56:14.089 --> 00:56:16.634 see if between disorders there  
NOTE Confidence: 0.823827639545454

00:56:16.634 --> 00:56:19.155 are differences in the capacity  
NOTE Confidence: 0.823827639545454

00:56:19.155 --> 00:56:21.990 of their cells and to do so.  
NOTE Confidence: 0.823827639545454

00:56:21.990 --> 00:56:24.210 But thanks to our wonderful collaboration  
NOTE Confidence: 0.823827639545454

00:56:24.277 --> 00:56:27.169 with a biomedical engineer department here,  
NOTE Confidence: 0.823827639545454

00:56:27.170 --> 00:56:28.910 I yell with left ankle up.  
NOTE Confidence: 0.823827639545454

00:56:28.910 --> 00:56:29.800 We designed.  
NOTE Confidence: 0.823827639545454

00:56:29.800 --> 00:56:32.025 This is a culture system.  
NOTE Confidence: 0.768655448666667

00:56:32.030 --> 00:56:34.094 Imagine in in vitro we have  
NOTE Confidence: 0.768655448666667

00:56:34.094 --> 00:56:37.058 we are able to create these  
NOTE Confidence: 0.768655448666667

00:56:37.058 --> 00:56:39.317 morphogen concentration gradient.  
NOTE Confidence: 0.768655448666667

00:56:39.320 --> 00:56:41.282 So here we have the massively  
NOTE Confidence: 0.768655448666667

00:56:41.282 --> 00:56:43.309 device has two sources in which  
NOTE Confidence: 0.768655448666667

00:56:43.309 --> 00:56:44.929 we can apply the morphogen.  
NOTE Confidence: 0.768655448666667

00:56:44.930 --> 00:56:47.345 Imagine the blue morpho Jenn and I,

NOTE Confidence: 0.768655448666667  
00:56:47.350 --> 00:56:49.600 yellow, morphogen and our organize  
NOTE Confidence: 0.768655448666667  
00:56:49.600 --> 00:56:52.300 the stem cells are played with.  
NOTE Confidence: 0.768655448666667  
00:56:52.300 --> 00:56:53.925 In between the source and  
NOTE Confidence: 0.768655448666667  
00:56:53.925 --> 00:56:56.320 exposed to the to the gradients,  
NOTE Confidence: 0.768655448666667  
00:56:56.320 --> 00:56:58.399 so you will see there the organs  
NOTE Confidence: 0.768655448666667  
00:56:58.399 --> 00:57:00.555 close to the blue Morpho journey  
NOTE Confidence: 0.768655448666667  
00:57:00.555 --> 00:57:02.540 will receive a higher those,  
NOTE Confidence: 0.768655448666667  
00:57:02.540 --> 00:57:04.682 while the one that we are  
NOTE Confidence: 0.768655448666667  
00:57:04.682 --> 00:57:06.840 occupied this area they see five.  
NOTE Confidence: 0.768655448666667  
00:57:06.840 --> 00:57:08.520 They will receive less morphogen.  
NOTE Confidence: 0.768655448666667  
00:57:08.520 --> 00:57:12.136 And so the same for the yellow morphogen.  
NOTE Confidence: 0.768655448666667  
00:57:12.140 --> 00:57:15.677 So to monitor that we will be able to  
NOTE Confidence: 0.768655448666667  
00:57:15.677 --> 00:57:18.359 recapitulate the different brain regions.  
NOTE Confidence: 0.768655448666667  
00:57:18.360 --> 00:57:21.398 Of course we will use knowledge from  
NOTE Confidence: 0.768655448666667  
00:57:21.398 --> 00:57:23.745 literature and other model system  
NOTE Confidence: 0.768655448666667

00:57:23.745 --> 00:57:26.625 where genes are expressed in different  
NOTE Confidence: 0.768655448666667

00:57:26.625 --> 00:57:29.382 position of the neural tube from the  
NOTE Confidence: 0.768655448666667

00:57:29.382 --> 00:57:32.129 left to the right or top to bottom.  
NOTE Confidence: 0.768655448666667

00:57:32.129 --> 00:57:35.036 And so here I'm very happy and dentist  
NOTE Confidence: 0.768655448666667

00:57:35.036 --> 00:57:37.598 to share with you our preliminary  
NOTE Confidence: 0.768655448666667

00:57:37.598 --> 00:57:40.508 results of the organized that we  
NOTE Confidence: 0.768655448666667

00:57:40.508 --> 00:57:43.610 differentiate in this massive lyric device.  
NOTE Confidence: 0.768655448666667

00:57:43.610 --> 00:57:46.088 To A to a double gradient,  
NOTE Confidence: 0.768655448666667

00:57:46.090 --> 00:57:48.670 and these are RNA sequencing,  
NOTE Confidence: 0.768655448666667

00:57:48.670 --> 00:57:51.422 so we look at gene expression and we  
NOTE Confidence: 0.768655448666667

00:57:51.422 --> 00:57:53.799 observed that the the organizing the  
NOTE Confidence: 0.768655448666667

00:57:53.799 --> 00:57:56.720 device are able to acquire different faith,  
NOTE Confidence: 0.768655448666667

00:57:56.720 --> 00:57:59.814 both anterior or posterior and also that  
NOTE Confidence: 0.768655448666667

00:57:59.814 --> 00:58:02.532 we can recognize you late important  
NOTE Confidence: 0.768655448666667

00:58:02.532 --> 00:58:05.577 regions like the cortex and the basal  
NOTE Confidence: 0.768655448666667

00:58:05.656 --> 00:58:08.716 ganglia by looking at specific gene



NOTE Confidence: 0.768655448666667  
00:58:08.716 --> 00:58:11.090 expression and not least I want to  
NOTE Confidence: 0.768655448666667  
00:58:11.090 --> 00:58:14.575 show you how the system can be used to study.  
NOTE Confidence: 0.768655448666667  
00:58:14.580 --> 00:58:16.797 Inter individual variability.  
NOTE Confidence: 0.768655448666667  
00:58:16.797 --> 00:58:20.492 So in this experiment we  
NOTE Confidence: 0.768655448666667  
00:58:20.492 --> 00:58:23.040 differentiate six line in.  
NOTE Confidence: 0.768655448666667  
00:58:23.040 --> 00:58:26.250 That are coming so from different  
NOTE Confidence: 0.768655448666667  
00:58:26.250 --> 00:58:28.866 individuals and we of course  
NOTE Confidence: 0.768655448666667  
00:58:28.866 --> 00:58:31.286 I'm exposed to the morphogen,  
NOTE Confidence: 0.768655448666667  
00:58:31.290 --> 00:58:32.060 our device.  
NOTE Confidence: 0.768655448666667  
00:58:32.060 --> 00:58:34.755 And when we look at gene expression,  
NOTE Confidence: 0.768655448666667  
00:58:34.760 --> 00:58:36.965 we noticed that overall the  
NOTE Confidence: 0.768655448666667  
00:58:36.965 --> 00:58:39.623 pattern as you can follow each  
NOTE Confidence: 0.768655448666667  
00:58:39.623 --> 00:58:42.039 of these line plot is maintained.  
NOTE Confidence: 0.768655448666667  
00:58:42.039 --> 00:58:44.475 It's pretty similar among  
NOTE Confidence: 0.768655448666667  
00:58:44.475 --> 00:58:47.520 individuals but with some exception.  
NOTE Confidence: 0.768655448666667

00:58:47.520 --> 00:58:50.068 For example here we can see that  
NOTE Confidence: 0.768655448666667

00:58:50.068 --> 00:58:52.601 the individuals in purple show a  
NOTE Confidence: 0.768655448666667

00:58:52.601 --> 00:58:54.876 different response to the morphogens.  
NOTE Confidence: 0.768655448666667

00:58:54.880 --> 00:58:57.772 So meaning that the itself sends  
NOTE Confidence: 0.768655448666667

00:58:57.772 --> 00:58:59.218 the morphogen differently.  
NOTE Confidence: 0.768655448666667

00:58:59.220 --> 00:58:59.846 So, uh,  
NOTE Confidence: 0.768655448666667

00:58:59.846 --> 00:59:01.098 I hope I can.  
NOTE Confidence: 0.768655448666667

00:59:01.100 --> 00:59:04.076 I show you how we can use this  
NOTE Confidence: 0.768655448666667

00:59:04.076 --> 00:59:06.008 massively device to recapitulate  
NOTE Confidence: 0.768655448666667

00:59:06.008 --> 00:59:08.778 different brain regions in vitro.  
NOTE Confidence: 0.768655448666667

00:59:08.780 --> 00:59:12.070 We can use the system to study  
NOTE Confidence: 0.768655448666667

00:59:12.070 --> 00:59:13.480 inter individual variability,  
NOTE Confidence: 0.768655448666667

00:59:13.480 --> 00:59:17.281 and so sooner we want to apply  
NOTE Confidence: 0.768655448666667

00:59:17.281 --> 00:59:21.062 this culture system to study  
NOTE Confidence: 0.768655448666667

00:59:21.062 --> 00:59:22.678 neurodevelopmental disorders.  
NOTE Confidence: 0.768655448666667

00:59:22.680 --> 00:59:25.024 So why this work would not be made

NOTE Confidence: 0.768655448666667  
00:59:25.024 --> 00:59:27.276 without the help of all the vaccarino  
NOTE Confidence: 0.768655448666667  
00:59:27.276 --> 00:59:29.640 slab member and the left ankle apps.  
NOTE Confidence: 0.768655448666667  
00:59:29.640 --> 00:59:31.708 And of course the support of  
NOTE Confidence: 0.768655448666667  
00:59:31.708 --> 00:59:32.896 the Child Study Center,  
NOTE Confidence: 0.768655448666667  
00:59:32.900 --> 00:59:35.660 our agency and Funding Agency  
NOTE Confidence: 0.768655448666667  
00:59:35.660 --> 00:59:38.420 and not least Arnstine family.  
NOTE Confidence: 0.768655448666667  
00:59:38.420 --> 00:59:41.745 So I'm I'm happy to take any  
NOTE Confidence: 0.768655448666667  
00:59:41.745 --> 00:59:43.510 questions and thank you so much.  
NOTE Confidence: 0.884858366  
00:59:44.200 --> 00:59:46.210 Thank you so much, Ryan.  
NOTE Confidence: 0.884858366  
00:59:46.210 --> 00:59:47.940 Any questions from the audience?  
NOTE Confidence: 0.7627217  
00:59:52.810 --> 00:59:54.380 If I if I mail in the.  
NOTE Confidence: 0.856059035  
00:59:55.860 --> 00:59:56.928 Right, just like to  
NOTE Confidence: 0.9590502525  
00:59:56.980 --> 00:59:58.148 thank you for highlighting  
NOTE Confidence: 0.86508691  
00:59:58.590 --> 00:59:59.825 some of the really amazing  
NOTE Confidence: 0.86508691  
00:59:59.825 --> 01:00:00.926 cutting edge neuroscience work  
NOTE Confidence: 0.86508691

01:00:00.926 --> 01:00:02.160 that's going on in the center.  
NOTE Confidence: 0.86508691

01:00:02.160 --> 01:00:03.508 That was really fantastic.  
NOTE Confidence: 0.88122416875

01:00:03.590 --> 01:00:05.638 And, you know, you hinted at this towards  
NOTE Confidence: 0.930061692

01:00:05.650 --> 01:00:06.640 the end of your talk.  
NOTE Confidence: 0.930061692

01:00:06.640 --> 01:00:08.248 I was wondering, you know if you  
NOTE Confidence: 0.930061692

01:00:08.248 --> 01:00:09.786 could talk a little bit more about the  
NOTE Confidence: 0.930061692

01:00:09.786 --> 01:00:11.321 specific neurodevelopmental disorders  
NOTE Confidence: 0.930061692

01:00:11.321 --> 01:00:14.688 that you think might be prioritized for.  
NOTE Confidence: 0.930061692

01:00:14.690 --> 01:00:16.195 You know the wind Sonic  
NOTE Confidence: 0.930061692

01:00:16.195 --> 01:00:17.235 hedgehog signaling pathway?  
NOTE Confidence: 0.930061692

01:00:17.235 --> 01:00:18.993 What kind of mental disorders do  
NOTE Confidence: 0.930061692

01:00:18.993 --> 01:00:20.158 you think would you prioritize  
NOTE Confidence: 0.930061692

01:00:20.160 --> 01:00:21.510 for the application of this work?  
NOTE Confidence: 0.684751479444444

01:00:22.490 --> 01:00:24.236 Yeah, like of course so this  
NOTE Confidence: 0.684751479444444

01:00:24.236 --> 01:00:27.099 work can be a bridge up with all  
NOTE Confidence: 0.684751479444444

01:00:27.099 --> 01:00:28.727 the previous like presenter,

NOTE Confidence: 0.684751479444444

01:00:28.730 --> 01:00:31.240 researcher, the Child Study Center

NOTE Confidence: 0.684751479444444

01:00:31.240 --> 01:00:33.750 because as ellenoff man showed,

NOTE Confidence: 0.684751479444444

01:00:33.750 --> 01:00:38.027 like so many genes are affected as

NOTE Confidence: 0.684751479444444

01:00:38.027 --> 01:00:40.990 being identified as a potential target.

NOTE Confidence: 0.684751479444444

01:00:40.990 --> 01:00:43.750 But in the end the pathway the

NOTE Confidence: 0.684751479444444

01:00:43.750 --> 01:00:45.590 signaling pathway that are very

NOTE Confidence: 0.684751479444444

01:00:45.661 --> 01:00:47.869 converging and both the wind and

NOTE Confidence: 0.684751479444444

01:00:47.869 --> 01:00:50.303 the Sonic hedgehog has been recently

NOTE Confidence: 0.684751479444444

01:00:50.303 --> 01:00:53.120 associated with notice for sure.

NOTE Confidence: 0.684751479444444

01:00:53.120 --> 01:00:54.287 And for example,

NOTE Confidence: 0.684751479444444

01:00:54.287 --> 01:00:56.621 Sonic hedgehog is involved in the

NOTE Confidence: 0.684751479444444

01:00:56.621 --> 01:00:58.230 mentalization of the neural tube,

NOTE Confidence: 0.684751479444444

01:00:58.230 --> 01:01:01.324 UM, and the eventual isation is a

NOTE Confidence: 0.684751479444444

01:01:01.324 --> 01:01:04.435 fundamental if we want to recapitulate

NOTE Confidence: 0.684751479444444

01:01:04.435 --> 01:01:07.097 basal ganglia here on the left.

NOTE Confidence: 0.684751479444444

01:01:07.097 --> 01:01:08.653 So definitely basal ganglia  
NOTE Confidence: 0.684751479444444

01:01:08.653 --> 01:01:10.286 is another regions, uh,  
NOTE Confidence: 0.684751479444444

01:01:10.286 --> 01:01:14.014 that has been identified even in our level,  
NOTE Confidence: 0.684751479444444

01:01:14.020 --> 01:01:15.478 like Flora, Vaccarino's,  
NOTE Confidence: 0.684751479444444

01:01:15.478 --> 01:01:18.574 my mentor was the pioneer studying  
NOTE Confidence: 0.684751479444444

01:01:18.574 --> 01:01:21.229 Tourette syndrome using true brain  
NOTE Confidence: 0.684751479444444

01:01:21.229 --> 01:01:23.669 samples and also more recently.  
NOTE Confidence: 0.684751479444444

01:01:23.670 --> 01:01:26.002 Our, UM our PhD.  
NOTE Confidence: 0.684751479444444

01:01:26.002 --> 01:01:28.917 My colleague Melanie Brady also  
NOTE Confidence: 0.684751479444444

01:01:28.917 --> 01:01:32.629 develop and study are accurate court.  
NOTE Confidence: 0.684751479444444

01:01:32.630 --> 01:01:34.838 So we have group of control and to  
NOTE Confidence: 0.684751479444444

01:01:34.838 --> 01:01:37.660 read patient and she was able to  
NOTE Confidence: 0.684751479444444

01:01:37.660 --> 01:01:39.664 recapitulate some of the features  
NOTE Confidence: 0.684751479444444

01:01:39.664 --> 01:01:42.568 like because into rap patient flow.  
NOTE Confidence: 0.684751479444444

01:01:42.570 --> 01:01:46.636 Please intervene there is a down  
NOTE Confidence: 0.684751479444444

01:01:46.636 --> 01:01:49.044 regulation of several population

NOTE Confidence: 0.684751479444444

01:01:49.044 --> 01:01:51.899 of interneurons and this was

NOTE Confidence: 0.684751479444444

01:01:51.899 --> 01:01:54.259 proven both by of course.

NOTE Confidence: 0.684751479444444

01:01:54.260 --> 01:01:56.350 Actual brain sample for smarter

NOTE Confidence: 0.684751479444444

01:01:56.350 --> 01:01:58.935 but also our system showed that

NOTE Confidence: 0.684751479444444

01:01:58.935 --> 01:02:01.025 there is a developmental defects

NOTE Confidence: 0.684751479444444

01:02:01.025 --> 01:02:03.640 in the generation of these cells.

NOTE Confidence: 0.684751479444444

01:02:03.640 --> 01:02:09.146 So definitely many many disease we opt

NOTE Confidence: 0.684751479444444

01:02:09.146 --> 01:02:12.440 to apply this system and of course all

NOTE Confidence: 0.684751479444444

01:02:12.440 --> 01:02:14.810 the neuroimaging data from the other.

NOTE Confidence: 0.684751479444444

01:02:14.810 --> 01:02:17.484 You can see it so I'm really

NOTE Confidence: 0.684751479444444

01:02:17.484 --> 01:02:20.050 like interest to would be amazing

NOTE Confidence: 0.684751479444444

01:02:20.050 --> 01:02:22.275 to have a common project.

NOTE Confidence: 0.684751479444444

01:02:22.280 --> 01:02:24.570 All the labs be court.

NOTE Confidence: 0.933057494

01:02:25.850 --> 01:02:27.892 Great, thank you so much, Ryan.

NOTE Confidence: 0.933057494

01:02:27.892 --> 01:02:30.300 Thank you, thank you.

NOTE Confidence: 0.933057494

01:02:30.300 --> 01:02:33.688 So we'll move now to our clinical  
NOTE Confidence: 0.933057494

01:02:33.690 --> 01:02:35.658 section and then right after that,  
NOTE Confidence: 0.933057494

01:02:35.660 --> 01:02:38.120 we'll have a brief break.  
NOTE Confidence: 0.933057494

01:02:38.120 --> 01:02:39.458 But I may.  
NOTE Confidence: 0.933057494

01:02:39.458 --> 01:02:42.580 I may I call on Terra Davila,  
NOTE Confidence: 0.933057494

01:02:42.580 --> 01:02:45.460 Terra is our Chief Diversity Officer,  
NOTE Confidence: 0.933057494

01:02:45.460 --> 01:02:47.735 as well as one of the senior  
NOTE Confidence: 0.933057494

01:02:47.735 --> 01:02:49.278 clinical supervisors in our  
NOTE Confidence: 0.933057494

01:02:49.278 --> 01:02:50.750 outpatient services, Tara.  
NOTE Confidence: 0.95705958

01:02:52.800 --> 01:02:54.430 Good afternoon and welcome.  
NOTE Confidence: 0.775813212

01:02:54.900 --> 01:02:56.490 My name is Tara D'avila.  
NOTE Confidence: 0.775813212

01:02:56.490 --> 01:03:00.346 I'm so honored and pleased to be here today.  
NOTE Confidence: 0.775813212

01:03:00.350 --> 01:03:02.227 I am an assistant clinical professor  
NOTE Confidence: 0.775813212

01:03:02.227 --> 01:03:04.310 of social work and as I said,  
NOTE Confidence: 0.775813212

01:03:04.310 --> 01:03:05.600 it's my honor and an absolute  
NOTE Confidence: 0.775813212

01:03:05.658 --> 01:03:07.912 pleasure to share with you and shine



NOTE Confidence: 0.775813212

01:03:07.912 --> 01:03:10.408 a light on our clinical mission.

NOTE Confidence: 0.775813212

01:03:10.410 --> 01:03:11.770 For the last ten years,

NOTE Confidence: 0.775813212

01:03:11.770 --> 01:03:13.972 I've served as a clinical coordinator

NOTE Confidence: 0.775813212

01:03:13.972 --> 01:03:15.440 for outpatient clinical services.

NOTE Confidence: 0.775813212

01:03:15.440 --> 01:03:17.505 12 months ago I also became the

NOTE Confidence: 0.775813212

01:03:17.505 --> 01:03:18.748 inaugural Chief Diversity Officer

NOTE Confidence: 0.775813212

01:03:18.748 --> 01:03:20.258 for the Child Study Center,

NOTE Confidence: 0.775813212

01:03:20.260 --> 01:03:21.630 and while I'm passionate about both

NOTE Confidence: 0.775813212

01:03:21.630 --> 01:03:23.513 of those roles and could honestly talk

NOTE Confidence: 0.775813212

01:03:23.513 --> 01:03:25.647 to you for hours about both today,

NOTE Confidence: 0.775813212

01:03:25.650 --> 01:03:26.940 I'm really thrilled to speak to

NOTE Confidence: 0.775813212

01:03:26.940 --> 01:03:28.443 you about the part of the CSC

NOTE Confidence: 0.775813212

01:03:28.443 --> 01:03:29.438 that first stole my heart,

NOTE Confidence: 0.775813212

01:03:29.440 --> 01:03:31.720 which is our clinical services.

NOTE Confidence: 0.775813212

01:03:31.720 --> 01:03:34.359 We have a magnificent team of caring,

NOTE Confidence: 0.775813212

01:03:34.360 --> 01:03:36.950 dedicated and gifted faculty and  
NOTE Confidence: 0.775813212

01:03:36.950 --> 01:03:39.022 staff committed to furthering  
NOTE Confidence: 0.775813212

01:03:39.022 --> 01:03:40.960 our clinical mission.  
NOTE Confidence: 0.775813212

01:03:40.960 --> 01:03:41.100 The  
NOTE Confidence: 0.899913870909091

01:03:41.110 --> 01:03:42.225 care experience at the Child  
NOTE Confidence: 0.899913870909091

01:03:42.225 --> 01:03:43.590 Study Center begins with a phone  
NOTE Confidence: 0.94428023

01:03:43.600 --> 01:03:45.880 call when families call us,  
NOTE Confidence: 0.94428023

01:03:45.880 --> 01:03:47.515 they're greeted in there,  
NOTE Confidence: 0.94428023

01:03:47.515 --> 01:03:49.290 greeted in both English and  
NOTE Confidence: 0.94428023

01:03:49.290 --> 01:03:51.036 Spanish by skillful, compassionate,  
NOTE Confidence: 0.94428023

01:03:51.036 --> 01:03:53.740 kind and supportive staff.  
NOTE Confidence: 0.94428023

01:03:53.740 --> 01:03:55.378 They're the first people our patients  
NOTE Confidence: 0.94428023

01:03:55.378 --> 01:03:56.990 interact with when calling our clinic,  
NOTE Confidence: 0.94428023

01:03:56.990 --> 01:03:58.957 and it is because of their excellent  
NOTE Confidence: 0.94428023

01:03:58.957 --> 01:04:00.708 support that they provide that we  
NOTE Confidence: 0.94428023

01:04:00.708 --> 01:04:02.478 have many families choose to return

NOTE Confidence: 0.94428023

01:04:02.480 --> 01:04:04.280 and refer others as you'll hear

NOTE Confidence: 0.94428023

01:04:04.280 --> 01:04:06.620 in one of our vignettes today.

NOTE Confidence: 0.94428023

01:04:06.620 --> 01:04:08.516 I cannot say enough about how

NOTE Confidence: 0.94428023

01:04:08.516 --> 01:04:10.590 important they are to our mission.

NOTE Confidence: 0.94428023

01:04:10.590 --> 01:04:12.938 Our complete clinical care experience

NOTE Confidence: 0.94428023

01:04:12.938 --> 01:04:15.290 takes a village in addition to our

NOTE Confidence: 0.94428023

01:04:15.290 --> 01:04:16.790 clinical faculty and support staff.

NOTE Confidence: 0.94428023

01:04:16.790 --> 01:04:18.387 Our village includes security guards

NOTE Confidence: 0.94428023

01:04:18.387 --> 01:04:20.272 and environmental service team members

NOTE Confidence: 0.94428023

01:04:20.272 --> 01:04:23.086 who each play a role in creating a

NOTE Confidence: 0.94428023

01:04:23.086 --> 01:04:25.146 safe and welcoming environment for

NOTE Confidence: 0.94428023

01:04:25.146 --> 01:04:27.398 our families when they come here.

NOTE Confidence: 0.94428023

01:04:27.400 --> 01:04:29.130 Our clerk or clinical team is

NOTE Confidence: 0.94428023

01:04:29.130 --> 01:04:31.322 comprised of psych ologist,

NOTE Confidence: 0.94428023

01:04:31.322 --> 01:04:32.966 nurses professional counselors,

NOTE Confidence: 0.94428023

01:04:32.970 --> 01:04:33.820 social workers,  
NOTE Confidence: 0.94428023

01:04:33.820 --> 01:04:35.520 marriage and family therapists,  
NOTE Confidence: 0.94428023

01:04:35.520 --> 01:04:38.808 pediatricians, interns and fellows.  
NOTE Confidence: 0.94428023

01:04:38.808 --> 01:04:41.742 We have about 3000 unique patients  
NOTE Confidence: 0.94428023

01:04:41.742 --> 01:04:42.678 in our care.  
NOTE Confidence: 0.94428023

01:04:42.678 --> 01:04:45.795 At any given time in fiscal year 2021,  
NOTE Confidence: 0.94428023

01:04:45.795 --> 01:04:48.460 we had about 45,000 derived appointments  
NOTE Confidence: 0.94428023

01:04:48.460 --> 01:04:50.900 and we're on track to have us to  
NOTE Confidence: 0.94428023

01:04:50.963 --> 01:04:52.748 have similar numbers this year.  
NOTE Confidence: 0.94428023

01:04:52.750 --> 01:04:55.220 It's a lot of sessions we see children  
NOTE Confidence: 0.94428023

01:04:55.220 --> 01:04:57.708 from ages 0 to 19 in our Youth Services,  
NOTE Confidence: 0.94428023

01:04:57.710 --> 01:04:59.770 but across our clinical services,  
NOTE Confidence: 0.94428023

01:04:59.770 --> 01:05:02.596 we go up to age 85.  
NOTE Confidence: 0.94428023

01:05:02.600 --> 01:05:05.665 We have six core clinical  
NOTE Confidence: 0.94428023

01:05:05.665 --> 01:05:08.117 areas which are outpatient.  
NOTE Confidence: 0.94428023

01:05:08.120 --> 01:05:10.470 Services are in home services,

NOTE Confidence: 0.94428023  
01:05:10.470 --> 01:05:11.796 assessment services,  
NOTE Confidence: 0.94428023  
01:05:11.796 --> 01:05:14.448 parent and Family Services  
NOTE Confidence: 0.94428023  
01:05:14.448 --> 01:05:16.437 or trauma services,  
NOTE Confidence: 0.94428023  
01:05:16.440 --> 01:05:18.590 and our Children Day hospital.  
NOTE Confidence: 0.94428023  
01:05:18.590 --> 01:05:20.354 So we have a variety of ways  
NOTE Confidence: 0.94428023  
01:05:20.354 --> 01:05:21.984 that we can support families  
NOTE Confidence: 0.94428023  
01:05:21.984 --> 01:05:24.009 at varying levels of acuity.  
NOTE Confidence: 0.94428023  
01:05:24.010 --> 01:05:25.626 And I wish we had the time to  
NOTE Confidence: 0.94428023  
01:05:25.626 --> 01:05:27.306 highlight every single piece of  
NOTE Confidence: 0.94428023  
01:05:27.306 --> 01:05:29.038 our clinical mission and everyone  
NOTE Confidence: 0.94428023  
01:05:29.038 --> 01:05:31.018 that contributes to it because the  
NOTE Confidence: 0.94428023  
01:05:31.018 --> 01:05:32.978 work is really just so stellar.  
NOTE Confidence: 0.93126475  
01:05:36.060 --> 01:05:37.780 In March of 2020,  
NOTE Confidence: 0.93126475  
01:05:37.780 --> 01:05:39.334 along with the rest of the world,  
NOTE Confidence: 0.93126475  
01:05:39.340 --> 01:05:41.874 we were faced with this global pandemic.  
NOTE Confidence: 0.93126475

01:05:41.880 --> 01:05:43.572 We were not only sharing the  
NOTE Confidence: 0.93126475

01:05:43.572 --> 01:05:44.700 very human experiences of  
NOTE Confidence: 0.93126475

01:05:44.756 --> 01:05:46.428 feeling terrified and uncertain,  
NOTE Confidence: 0.93126475

01:05:46.430 --> 01:05:48.348 but we were challenged to shift our  
NOTE Confidence: 0.93126475

01:05:48.348 --> 01:05:49.829 entire practice to Tele health,  
NOTE Confidence: 0.93126475

01:05:49.830 --> 01:05:51.996 something that we've never done before.  
NOTE Confidence: 0.93126475

01:05:52.000 --> 01:05:52.762 Our support staff,  
NOTE Confidence: 0.93126475

01:05:52.762 --> 01:05:54.286 who I mentioned to you earlier,  
NOTE Confidence: 0.93126475

01:05:54.290 --> 01:05:55.895 were so important in helping  
NOTE Confidence: 0.93126475

01:05:55.895 --> 01:05:58.163 us set our families up to be  
NOTE Confidence: 0.93126475

01:05:58.163 --> 01:05:59.648 able to access Tele health.  
NOTE Confidence: 0.93126475

01:05:59.650 --> 01:06:01.396 They were so incredible in taking  
NOTE Confidence: 0.93126475

01:06:01.396 --> 01:06:02.908 calls and walking the families  
NOTE Confidence: 0.93126475

01:06:02.908 --> 01:06:04.624 through the steps 'cause no one  
NOTE Confidence: 0.93126475

01:06:04.624 --> 01:06:06.398 had done this before for behavioral  
NOTE Confidence: 0.93126475

01:06:06.398 --> 01:06:08.012 health in our clinic and really

NOTE Confidence: 0.93126475

01:06:08.012 --> 01:06:09.678 in the state of Connecticut,

NOTE Confidence: 0.93126475

01:06:09.680 --> 01:06:13.474 everything got turned over with the pandemic.

NOTE Confidence: 0.93126475

01:06:13.480 --> 01:06:15.418 We rally together and we continue

NOTE Confidence: 0.93126475

01:06:15.418 --> 01:06:17.510 to provide services with the goal of

NOTE Confidence: 0.93126475

01:06:17.510 --> 01:06:19.596 keeping children out of the hospitals

NOTE Confidence: 0.93126475

01:06:19.596 --> 01:06:21.586 for psychiatric emergencies so that

NOTE Confidence: 0.93126475

01:06:21.586 --> 01:06:23.974 all of the hospital resources could

NOTE Confidence: 0.93126475

01:06:23.974 --> 01:06:26.176 go to caring for COVID patients.

NOTE Confidence: 0.93126475

01:06:26.180 --> 01:06:27.610 Our team was challenged to find

NOTE Confidence: 0.93126475

01:06:27.610 --> 01:06:29.440 ways to translate our treatment and

NOTE Confidence: 0.93126475

01:06:29.440 --> 01:06:31.030 our supervisory practices to this

NOTE Confidence: 0.93126475

01:06:31.086 --> 01:06:32.626 new way of delivering services.

NOTE Confidence: 0.93126475

01:06:32.630 --> 01:06:34.680 It invited creativity and innovation

NOTE Confidence: 0.93126475

01:06:34.680 --> 01:06:35.910 as a supervisor.

NOTE Confidence: 0.93126475

01:06:35.910 --> 01:06:38.110 Here I have been in complete all of

NOTE Confidence: 0.93126475

01:06:38.110 --> 01:06:40.129 the ways that our clinicians have  
NOTE Confidence: 0.93126475

01:06:40.129 --> 01:06:42.989 been able to engage children on the screen.  
NOTE Confidence: 0.93126475

01:06:42.990 --> 01:06:45.790 They are at never at a loss for  
NOTE Confidence: 0.93126475

01:06:45.790 --> 01:06:47.770 creative ways and methods using  
NOTE Confidence: 0.93126475

01:06:47.770 --> 01:06:49.810 whatever they could find at home  
NOTE Confidence: 0.93126475

01:06:49.810 --> 01:06:52.137 to make their work translate and  
NOTE Confidence: 0.93126475

01:06:52.137 --> 01:06:53.379 engaging on screen.  
NOTE Confidence: 0.939883728

01:06:54.950 --> 01:06:56.320 But we had this unique  
NOTE Confidence: 0.947770971666667

01:06:56.330 --> 01:06:58.376 experience of needing to support people  
NOTE Confidence: 0.95028085

01:06:58.390 --> 01:07:00.240 through the stressors that we  
NOTE Confidence: 0.95028085

01:07:00.240 --> 01:07:02.330 ourselves were also being impacted by.  
NOTE Confidence: 0.95028085

01:07:02.330 --> 01:07:05.450 We were managing our own fear and isolation.  
NOTE Confidence: 0.95028085

01:07:05.450 --> 01:07:08.299 Morning losses of our own and uncertainty,  
NOTE Confidence: 0.95028085

01:07:08.300 --> 01:07:10.526 which were some of the same things  
NOTE Confidence: 0.95028085

01:07:10.526 --> 01:07:12.670 their families were seeking support on.  
NOTE Confidence: 0.95028085

01:07:12.670 --> 01:07:13.890 Seemingly overnight.



NOTE Confidence: 0.95028085

01:07:13.890 --> 01:07:16.378 Our clinicians learn how to do their jobs

NOTE Confidence: 0.95028085

01:07:16.378 --> 01:07:18.757 virtually and still maintain great outcomes.

NOTE Confidence: 0.95028085

01:07:18.760 --> 01:07:20.454 Our clinicians have been tried in many

NOTE Confidence: 0.95028085

01:07:20.454 --> 01:07:22.328 ways and it remains steadfast through

NOTE Confidence: 0.95028085

01:07:22.328 --> 01:07:24.148 a global pandemic transitioning to

NOTE Confidence: 0.95028085

01:07:24.148 --> 01:07:26.186 telehealth and now to a hybrid service

NOTE Confidence: 0.95028085

01:07:26.186 --> 01:07:28.347 delivery where we're doing a little bit of

NOTE Confidence: 0.95028085

01:07:28.347 --> 01:07:30.980 Tele health and a little bit in person,

NOTE Confidence: 0.95028085

01:07:30.980 --> 01:07:33.265 all while trying to meet the current

NOTE Confidence: 0.95028085

01:07:33.265 --> 01:07:36.090 demands for behavioral health services,

NOTE Confidence: 0.95028085

01:07:36.090 --> 01:07:37.746 there's a mental health crisis that

NOTE Confidence: 0.95028085

01:07:37.746 --> 01:07:39.520 we're in right now that's been

NOTE Confidence: 0.95028085

01:07:39.520 --> 01:07:40.748 imposed by the pandemic.

NOTE Confidence: 0.95028085

01:07:40.750 --> 01:07:42.150 More children than ever are

NOTE Confidence: 0.95028085

01:07:42.150 --> 01:07:43.878 in need of our services,

NOTE Confidence: 0.95028085

01:07:43.880 --> 01:07:47.135 and they're more acute than ever before.

NOTE Confidence: 0.95028085

01:07:47.140 --> 01:07:48.898 The demand is so great.

NOTE Confidence: 0.95028085

01:07:48.900 --> 01:07:51.196 That for the first time in ten years,

NOTE Confidence: 0.95028085

01:07:51.200 --> 01:07:52.928 or at least in the ten years that

NOTE Confidence: 0.95028085

01:07:52.928 --> 01:07:55.070 I've been here, we have a wait list,

NOTE Confidence: 0.95028085

01:07:55.070 --> 01:07:57.548 which is antithetical to how we practice.

NOTE Confidence: 0.95028085

01:07:57.550 --> 01:07:59.255 We've always prided ourselves on

NOTE Confidence: 0.95028085

01:07:59.255 --> 01:08:00.960 being available to families when

NOTE Confidence: 0.95028085

01:08:01.017 --> 01:08:02.746 they took the brave step to call,

NOTE Confidence: 0.95028085

01:08:02.750 --> 01:08:04.458 but we simply don't have the capacity

NOTE Confidence: 0.95028085

01:08:04.458 --> 01:08:06.089 to meet the demand right now.

NOTE Confidence: 0.95028085

01:08:06.090 --> 01:08:06.836 In addition,

NOTE Confidence: 0.95028085

01:08:06.836 --> 01:08:08.328 behavioral health services are

NOTE Confidence: 0.95028085

01:08:08.328 --> 01:08:10.684 not supported on part with other

NOTE Confidence: 0.95028085

01:08:10.684 --> 01:08:11.890 health related services.

NOTE Confidence: 0.95028085

01:08:11.890 --> 01:08:13.302 This really impacts access

NOTE Confidence: 0.95028085

01:08:13.302 --> 01:08:14.580 and service delivery.

NOTE Confidence: 0.95028085

01:08:14.580 --> 01:08:16.482 We have never been more needed,

NOTE Confidence: 0.95028085

01:08:16.482 --> 01:08:19.290 and our system has never been more stressed.

NOTE Confidence: 0.95028085

01:08:19.290 --> 01:08:22.008 Making support from our associates critical.

NOTE Confidence: 0.95028085

01:08:22.010 --> 01:08:24.194 Many families in the greater New Haven

NOTE Confidence: 0.95028085

01:08:24.194 --> 01:08:26.063 area have not had access to important

NOTE Confidence: 0.95028085

01:08:26.063 --> 01:08:28.505 assessment services in the past thanks

NOTE Confidence: 0.95028085

01:08:28.505 --> 01:08:30.640 to a fund created by generous donors,

NOTE Confidence: 0.95028085

01:08:30.640 --> 01:08:32.080 we've been able to remove those

NOTE Confidence: 0.95028085

01:08:32.080 --> 01:08:33.401 barriers and make these services

NOTE Confidence: 0.95028085

01:08:33.401 --> 01:08:34.657 available to more families.

NOTE Confidence: 0.946621175

01:08:36.740 --> 01:08:39.295 So today you'll hear from a small

NOTE Confidence: 0.946621175

01:08:39.295 --> 01:08:40.956 sampling of our clinical faculty

NOTE Confidence: 0.946621175

01:08:40.956 --> 01:08:42.676 about snippets of their work.

NOTE Confidence: 0.946621175

01:08:42.680 --> 01:08:44.026 I'm confident that even

NOTE Confidence: 0.946621175

01:08:44.026 --> 01:08:45.450 through these tiny samplings,  
NOTE Confidence: 0.946621175

01:08:45.450 --> 01:08:47.160 you'll understand why I'm often  
NOTE Confidence: 0.946621175

01:08:47.160 --> 01:08:49.550 heard saying that I love what I do.  
NOTE Confidence: 0.946621175

01:08:49.550 --> 01:08:50.964 I love who I do it with,  
NOTE Confidence: 0.946621175

01:08:50.970 --> 01:08:53.098 and I love who I do it for.  
NOTE Confidence: 0.946621175

01:08:53.100 --> 01:08:54.700 Thank you so much for being with us  
NOTE Confidence: 0.946621175

01:08:54.700 --> 01:08:56.447 and for your support of our mission.  
NOTE Confidence: 0.819950055555556

01:08:58.860 --> 01:09:01.075 So our first presenter today  
NOTE Confidence: 0.819950055555556

01:09:01.075 --> 01:09:02.847 is Doctor Jenny Dwyer.  
NOTE Confidence: 0.893798041666667

01:09:05.970 --> 01:09:07.938 Hi everyone, nice to see you.  
NOTE Confidence: 0.893798041666667

01:09:07.940 --> 01:09:09.572 I'll be at virtually.  
NOTE Confidence: 0.893798041666667

01:09:09.572 --> 01:09:12.941 I have a couple of slides so I'm  
NOTE Confidence: 0.893798041666667

01:09:12.941 --> 01:09:15.419 gonna go ahead and share those.  
NOTE Confidence: 0.893798041666667

01:09:15.420 --> 01:09:17.826 Are you all able to see the spines  
NOTE Confidence: 0.893798041666667

01:09:17.826 --> 01:09:19.900 of thumbs up would be good.  
NOTE Confidence: 0.893798041666667

01:09:19.900 --> 01:09:22.450 OK, excellent.

NOTE Confidence: 0.893798041666667  
01:09:22.450 --> 01:09:23.722 Well, I know I've spoken with  
NOTE Confidence: 0.893798041666667  
01:09:23.722 --> 01:09:25.433 you all over the past couple of  
NOTE Confidence: 0.893798041666667  
01:09:25.433 --> 01:09:26.788 years about my research program,  
NOTE Confidence: 0.893798041666667  
01:09:26.790 --> 01:09:28.833 but I am thrilled to be able to talk  
NOTE Confidence: 0.893798041666667  
01:09:28.833 --> 01:09:31.227 to you about our clinical work as well,  
NOTE Confidence: 0.893798041666667  
01:09:31.230 --> 01:09:33.375 particularly during this  
NOTE Confidence: 0.893798041666667  
01:09:33.375 --> 01:09:35.520 mental health crisis.  
NOTE Confidence: 0.893798041666667  
01:09:35.520 --> 01:09:37.543 So I've started with a slide like  
NOTE Confidence: 0.893798041666667  
01:09:37.543 --> 01:09:39.692 this before that adolescence is a  
NOTE Confidence: 0.893798041666667  
01:09:39.692 --> 01:09:41.414 significant time for depression,  
NOTE Confidence: 0.893798041666667  
01:09:41.414 --> 01:09:44.042 and it's a significant health problem.  
NOTE Confidence: 0.893798041666667  
01:09:44.050 --> 01:09:44.920 So pre pandemic,  
NOTE Confidence: 0.893798041666667  
01:09:44.920 --> 01:09:46.950 we know that nearly one in five  
NOTE Confidence: 0.893798041666667  
01:09:47.019 --> 01:09:48.234 adolescents will experience  
NOTE Confidence: 0.893798041666667  
01:09:48.234 --> 01:09:50.259 major depressive disorder by the  
NOTE Confidence: 0.893798041666667

01:09:50.259 --> 01:09:52.350 end of their teenage years.  
NOTE Confidence: 0.893798041666667

01:09:52.350 --> 01:09:55.188 And that depression increases the risk  
NOTE Confidence: 0.893798041666667

01:09:55.188 --> 01:09:57.466 for suicide by thirtyfold suicides.  
NOTE Confidence: 0.893798041666667

01:09:57.466 --> 01:09:59.782 Now, the second leading cause of  
NOTE Confidence: 0.893798041666667

01:09:59.782 --> 01:10:02.228 death in young people in America.  
NOTE Confidence: 0.893798041666667

01:10:02.230 --> 01:10:04.372 So it was this serious situation  
NOTE Confidence: 0.893798041666667

01:10:04.372 --> 01:10:05.556 even before COVID-19.  
NOTE Confidence: 0.893798041666667

01:10:05.556 --> 01:10:08.818 And then we layer on a pandemic,  
NOTE Confidence: 0.893798041666667

01:10:08.820 --> 01:10:09.115 UM,  
NOTE Confidence: 0.893798041666667

01:10:09.115 --> 01:10:11.475 so we know from recent data taking a  
NOTE Confidence: 0.893798041666667

01:10:11.475 --> 01:10:13.918 global perspective that internationally.  
NOTE Confidence: 0.893798041666667

01:10:13.920 --> 01:10:15.956 The prevalence of pediatric  
NOTE Confidence: 0.893798041666667

01:10:15.956 --> 01:10:18.501 depression and anxiety has doubled  
NOTE Confidence: 0.893798041666667

01:10:18.501 --> 01:10:20.729 compared to pre pandemic levels.  
NOTE Confidence: 0.893798041666667

01:10:20.730 --> 01:10:22.494 And then if we look specifically  
NOTE Confidence: 0.893798041666667

01:10:22.494 --> 01:10:23.670 in the United States,

NOTE Confidence: 0.893798041666667

01:10:23.670 --> 01:10:25.475 we know that during these

NOTE Confidence: 0.893798041666667

01:10:25.475 --> 01:10:27.280 intense phases of the pandemic,

NOTE Confidence: 0.893798041666667

01:10:27.280 --> 01:10:30.298 the proportion of mental health emergency

NOTE Confidence: 0.893798041666667

01:10:30.298 --> 01:10:31.807 visits increased substantially,

NOTE Confidence: 0.893798041666667

01:10:31.810 --> 01:10:34.946 both in younger kids and in teenagers.

NOTE Confidence: 0.893798041666667

01:10:34.950 --> 01:10:36.726 And when you look at these

NOTE Confidence: 0.893798041666667

01:10:36.726 --> 01:10:38.330 broken into boys versus girls,

NOTE Confidence: 0.893798041666667

01:10:38.330 --> 01:10:42.222 we see that the the pandemic increase

NOTE Confidence: 0.893798041666667

01:10:42.222 --> 01:10:44.440 hits girls particularly hard.

NOTE Confidence: 0.893798041666667

01:10:44.440 --> 01:10:46.652 If we focus in not just on

NOTE Confidence: 0.893798041666667

01:10:46.652 --> 01:10:47.600 mental health emergencies,

NOTE Confidence: 0.893798041666667

01:10:47.600 --> 01:10:49.572 but visits specifically for

NOTE Confidence: 0.893798041666667

01:10:49.572 --> 01:10:52.037 suspected suicide attempts in girls,

NOTE Confidence: 0.893798041666667

01:10:52.040 --> 01:10:54.128 we can see the huge increase

NOTE Confidence: 0.893798041666667

01:10:54.128 --> 01:10:56.409 just by looking at this graph.

NOTE Confidence: 0.893798041666667

01:10:56.410 --> 01:10:59.202 So this other line is showing 2021 and  
NOTE Confidence: 0.893798041666667

01:10:59.202 --> 01:11:02.170 the weeks are on the bottom on the X axis,  
NOTE Confidence: 0.893798041666667

01:11:02.170 --> 01:11:04.048 so showing through about May of  
NOTE Confidence: 0.893798041666667

01:11:04.048 --> 01:11:06.345 this year and you can see an over  
NOTE Confidence: 0.893798041666667

01:11:06.345 --> 01:11:08.534 50% increase in emergency room  
NOTE Confidence: 0.893798041666667

01:11:08.534 --> 01:11:10.478 visits and girls specifically  
NOTE Confidence: 0.893798041666667

01:11:10.478 --> 01:11:13.568 for a suspected suicide attempt.  
NOTE Confidence: 0.893798041666667

01:11:13.570 --> 01:11:15.262 And then if you look on the Y axis.  
NOTE Confidence: 0.893798041666667

01:11:15.270 --> 01:11:19.099 But the numbers this is thousands of  
NOTE Confidence: 0.893798041666667

01:11:19.099 --> 01:11:21.540 emergency suicidal presentations per week.  
NOTE Confidence: 0.893798041666667

01:11:21.540 --> 01:11:23.430 So while I used to have this title where  
NOTE Confidence: 0.893798041666667

01:11:23.430 --> 01:11:25.586 I say it's a significant health problem,  
NOTE Confidence: 0.893798041666667

01:11:25.590 --> 01:11:26.500 I don't think that quite  
NOTE Confidence: 0.893798041666667

01:11:26.500 --> 01:11:27.773 does it justice anymore.  
NOTE Confidence: 0.893798041666667

01:11:27.773 --> 01:11:30.011 And I agree with the American  
NOTE Confidence: 0.893798041666667

01:11:30.011 --> 01:11:31.938 Academy of Pediatrics and the AKAP



NOTE Confidence: 0.893798041666667  
01:11:31.940 --> 01:11:34.243 that we're really in a state of  
NOTE Confidence: 0.893798041666667  
01:11:34.243 --> 01:11:36.115 a national emergency for child  
NOTE Confidence: 0.893798041666667  
01:11:36.115 --> 01:11:37.759 and adolescent mental health.  
NOTE Confidence: 0.893798041666667  
01:11:37.760 --> 01:11:39.374 So how do we treat depression  
NOTE Confidence: 0.893798041666667  
01:11:39.374 --> 01:11:41.566 if someone comes in with a new  
NOTE Confidence: 0.893798041666667  
01:11:41.566 --> 01:11:42.270 Depression diagnosis?  
NOTE Confidence: 0.893798041666667  
01:11:42.270 --> 01:11:44.680 Are Firstline treatments are really  
NOTE Confidence: 0.893798041666667  
01:11:44.680 --> 01:11:46.608 selective serotonin reuptake inhibitors.  
NOTE Confidence: 0.893798041666667  
01:11:46.610 --> 01:11:49.556 So medications like Block City nor  
NOTE Confidence: 0.893798041666667  
01:11:49.556 --> 01:11:52.558 Prozac and evidence based psychotherapies.  
NOTE Confidence: 0.893798041666667  
01:11:52.558 --> 01:11:56.320 So things like cognitive behavioral therapy.  
NOTE Confidence: 0.893798041666667  
01:11:56.320 --> 01:11:58.598 But we know that 40% of adolescents,  
NOTE Confidence: 0.893798041666667  
01:11:58.598 --> 01:12:00.218 even if they're getting this  
NOTE Confidence: 0.893798041666667  
01:12:00.218 --> 01:12:01.190 standard of care,  
NOTE Confidence: 0.893798041666667  
01:12:01.190 --> 01:12:03.326 won't get better with  
NOTE Confidence: 0.893798041666667

01:12:03.326 --> 01:12:04.928 these initial treatments.  
NOTE Confidence: 0.893798041666667

01:12:04.930 --> 01:12:06.685 The second line treatment the  
NOTE Confidence: 0.893798041666667

01:12:06.685 --> 01:12:07.738 next evidencebased step,  
NOTE Confidence: 0.893798041666667

01:12:07.740 --> 01:12:10.572 is to switch to a different SSRI and  
NOTE Confidence: 0.893798041666667

01:12:10.572 --> 01:12:13.488 then add CBT if you haven't already.  
NOTE Confidence: 0.893798041666667

01:12:13.490 --> 01:12:14.753 But even then,  
NOTE Confidence: 0.893798041666667

01:12:14.753 --> 01:12:16.858 nearly half of these patients  
NOTE Confidence: 0.893798041666667

01:12:16.858 --> 01:12:18.530 will remain depressed.  
NOTE Confidence: 0.893798041666667

01:12:18.530 --> 01:12:20.450 And so if you put these numbers together,  
NOTE Confidence: 0.936027320555555

01:12:20.450 --> 01:12:22.991 that's about one in five pediatric patients  
NOTE Confidence: 0.936027320555555

01:12:22.991 --> 01:12:25.665 with depression that will have what we  
NOTE Confidence: 0.936027320555555

01:12:25.665 --> 01:12:27.193 call treatment resistant depression.  
NOTE Confidence: 0.936027320555555

01:12:27.200 --> 01:12:29.935 So depression that persists despite  
NOTE Confidence: 0.936027320555555

01:12:29.935 --> 01:12:32.123 getting evidence based treatments.  
NOTE Confidence: 0.936027320555555

01:12:32.130 --> 01:12:33.528 And so our question is how  
NOTE Confidence: 0.936027320555555

01:12:33.528 --> 01:12:34.990 do we treat these patients,

NOTE Confidence: 0.936027320555555

01:12:34.990 --> 01:12:36.424 particularly in Pediatrics,

NOTE Confidence: 0.936027320555555

01:12:36.424 --> 01:12:39.292 where the evidence base is very

NOTE Confidence: 0.936027320555555

01:12:39.292 --> 01:12:42.019 thin compared to adult psychiatry?

NOTE Confidence: 0.936027320555555

01:12:42.020 --> 01:12:44.596 And that is the purpose of this service.

NOTE Confidence: 0.936027320555555

01:12:44.600 --> 01:12:47.050 So the pediatric treatment resistant

NOTE Confidence: 0.936027320555555

01:12:47.050 --> 01:12:50.023 Depression service is really a relatively

NOTE Confidence: 0.936027320555555

01:12:50.023 --> 01:12:53.599 young program we opened in November of 2019.

NOTE Confidence: 0.936027320555555

01:12:53.600 --> 01:12:55.622 It's Co directed by myself and

NOTE Confidence: 0.936027320555555

01:12:55.622 --> 01:12:56.970 Michael Block my colleague,

NOTE Confidence: 0.936027320555555

01:12:56.970 --> 01:13:00.200 and it's really an outpatient

NOTE Confidence: 0.936027320555555

01:13:00.200 --> 01:13:02.138 subspecialty consultation service.

NOTE Confidence: 0.936027320555555

01:13:02.140 --> 01:13:04.288 So what do we actually do on this service?

NOTE Confidence: 0.936027320555555

01:13:04.290 --> 01:13:06.840 UM, so we're providing comprehensive

NOTE Confidence: 0.936027320555555

01:13:06.840 --> 01:13:08.880 assessment of complex patients,

NOTE Confidence: 0.936027320555555

01:13:08.880 --> 01:13:11.319 and I will say the folks that come through

NOTE Confidence: 0.936027320555555

01:13:11.319 --> 01:13:13.779 our door for this type of referral  
NOTE Confidence: 0.9360273205555555

01:13:13.779 --> 01:13:15.730 are genuinely generally quite complex.  
NOTE Confidence: 0.9360273205555555

01:13:15.730 --> 01:13:18.789 So the average number of prior medicines  
NOTE Confidence: 0.9360273205555555

01:13:18.789 --> 01:13:21.867 before coming to see us is 9 medicines.  
NOTE Confidence: 0.9360273205555555

01:13:21.870 --> 01:13:23.364 So I gave this level of  
NOTE Confidence: 0.9360273205555555

01:13:23.364 --> 01:13:24.640 having tried at least two,  
NOTE Confidence: 0.9360273205555555

01:13:24.640 --> 01:13:27.524 and most of our most of our  
NOTE Confidence: 0.9360273205555555

01:13:27.524 --> 01:13:29.290 patients have tried many.  
NOTE Confidence: 0.9360273205555555

01:13:29.290 --> 01:13:31.325 There's also a high number  
NOTE Confidence: 0.9360273205555555

01:13:31.325 --> 01:13:32.546 of comorbid diagnosis.  
NOTE Confidence: 0.9360273205555555

01:13:32.550 --> 01:13:35.402 Often several hospitalizations and  
NOTE Confidence: 0.9360273205555555

01:13:35.402 --> 01:13:39.680 intense acuity with histories of suicide  
NOTE Confidence: 0.9360273205555555

01:13:39.780 --> 01:13:43.296 attempts or non suicidal self injury.  
NOTE Confidence: 0.9360273205555555

01:13:43.300 --> 01:13:45.848 So we review all of the prior  
NOTE Confidence: 0.9360273205555555

01:13:45.848 --> 01:13:47.560 available mental health records.  
NOTE Confidence: 0.9360273205555555

01:13:47.560 --> 01:13:49.456 We speak with their outpatient providers

NOTE Confidence: 0.936027320555555

01:13:49.456 --> 01:13:51.852 and try to piece together really the

NOTE Confidence: 0.936027320555555

01:13:51.852 --> 01:13:53.940 trajectory of the illness and and

NOTE Confidence: 0.936027320555555

01:13:53.940 --> 01:13:56.580 the factors that seem to be at play

NOTE Confidence: 0.936027320555555

01:13:56.662 --> 01:13:59.427 during periods of relative Wellness.

NOTE Confidence: 0.936027320555555

01:13:59.430 --> 01:14:02.694 This is 1/2 day in person or virtual.

NOTE Confidence: 0.936027320555555

01:14:02.700 --> 01:14:05.535 We also adapted to Tele Health during

NOTE Confidence: 0.936027320555555

01:14:05.535 --> 01:14:07.844 the pandemic evaluation where we

NOTE Confidence: 0.936027320555555

01:14:07.844 --> 01:14:10.334 do diagnostic interviews and also

NOTE Confidence: 0.936027320555555

01:14:10.334 --> 01:14:13.442 structured rating scales and at the end

NOTE Confidence: 0.936027320555555

01:14:13.442 --> 01:14:15.477 we provide a diagnostic formulation.

NOTE Confidence: 0.936027320555555

01:14:15.480 --> 01:14:17.935 There are often questions about

NOTE Confidence: 0.936027320555555

01:14:17.935 --> 01:14:20.364 primary diagnosis and that a set

NOTE Confidence: 0.936027320555555

01:14:20.364 --> 01:14:21.808 of treatment recommendations that

NOTE Confidence: 0.936027320555555

01:14:21.808 --> 01:14:23.500 span across the biological,

NOTE Confidence: 0.936027320555555

01:14:23.500 --> 01:14:27.020 the psychological and the social.

NOTE Confidence: 0.936027320555555

01:14:27.020 --> 01:14:29.596 There are times where we think the  
NOTE Confidence: 0.936027320555555

01:14:29.596 --> 01:14:32.099 helpful approach might be something in  
NOTE Confidence: 0.936027320555555

01:14:32.099 --> 01:14:34.319 the space of interventional psychiatry,  
NOTE Confidence: 0.936027320555555

01:14:34.320 --> 01:14:35.839 so it's kind of a new term,  
NOTE Confidence: 0.936027320555555

01:14:35.840 --> 01:14:39.038 but is talking about things like  
NOTE Confidence: 0.936027320555555

01:14:39.038 --> 01:14:41.810 ECT or KETAMIN or RTMS,  
NOTE Confidence: 0.936027320555555

01:14:41.810 --> 01:14:43.595 and in the cases that that seems  
NOTE Confidence: 0.936027320555555

01:14:43.595 --> 01:14:44.660 like an appropriate step,  
NOTE Confidence: 0.936027320555555

01:14:44.660 --> 01:14:47.588 we facilitate referrals to our colleagues  
NOTE Confidence: 0.936027320555555

01:14:47.588 --> 01:14:49.052 and interventional psychiatry.  
NOTE Confidence: 0.936027320555555

01:14:49.060 --> 01:14:50.964 Or if there's a research study that's  
NOTE Confidence: 0.936027320555555

01:14:50.964 --> 01:14:54.100 appropriate, we can refer them there.  
NOTE Confidence: 0.936027320555555

01:14:54.100 --> 01:14:54.774 So really,  
NOTE Confidence: 0.936027320555555

01:14:54.774 --> 01:14:57.133 my vision for this program is growth.  
NOTE Confidence: 0.936027320555555

01:14:57.140 --> 01:14:57.550 UM,  
NOTE Confidence: 0.936027320555555

01:14:57.550 --> 01:15:00.420 and and that growth would look like

NOTE Confidence: 0.936027320555555

01:15:00.420 --> 01:15:03.085 an increased capacity not only to

NOTE Confidence: 0.936027320555555

01:15:03.085 --> 01:15:04.814 deliver specialty level recommendations,

NOTE Confidence: 0.936027320555555

01:15:04.814 --> 01:15:07.382 but also to start providing some

NOTE Confidence: 0.936027320555555

01:15:07.382 --> 01:15:09.636 of the specialty level of care,

NOTE Confidence: 0.936027320555555

01:15:09.640 --> 01:15:11.820 particularly when we're recommending

NOTE Confidence: 0.936027320555555

01:15:11.820 --> 01:15:14.545 medication changes that can feel

NOTE Confidence: 0.936027320555555

01:15:14.545 --> 01:15:16.955 daunting or complex compared to sort

NOTE Confidence: 0.936027320555555

01:15:16.955 --> 01:15:18.780 of the standard medication regimens

NOTE Confidence: 0.936027320555555

01:15:18.780 --> 01:15:20.830 that are typically being used.

NOTE Confidence: 0.936027320555555

01:15:20.830 --> 01:15:23.147 So we hope that with the recruitment

NOTE Confidence: 0.936027320555555

01:15:23.147 --> 01:15:24.140 of additional providers.

NOTE Confidence: 0.936027320555555

01:15:24.140 --> 01:15:26.947 And resources will start to be able

NOTE Confidence: 0.936027320555555

01:15:26.947 --> 01:15:29.623 to increase our capacity and really

NOTE Confidence: 0.936027320555555

01:15:29.623 --> 01:15:32.400 meet the the surging demand for

NOTE Confidence: 0.936027320555555

01:15:32.400 --> 01:15:34.700 treatment for these complex patients.

NOTE Confidence: 0.936027320555555

01:15:34.700 --> 01:15:36.156 So thank you so much for giving  
NOTE Confidence: 0.936027320555555

01:15:36.156 --> 01:15:37.847 me some time to speak with you and  
NOTE Confidence: 0.936027320555555

01:15:37.847 --> 01:15:39.390 enjoy the rest of the afternoon.  
NOTE Confidence: 0.96470181

01:15:41.220 --> 01:15:43.700 Thank you so much Jenny.  
NOTE Confidence: 0.96470181

01:15:43.700 --> 01:15:45.730 Come take just a moment,  
NOTE Confidence: 0.96470181

01:15:45.730 --> 01:15:47.102 I know we said we would do  
NOTE Confidence: 0.96470181

01:15:47.102 --> 01:15:48.149 questions at the very end,  
NOTE Confidence: 0.96470181

01:15:48.150 --> 01:15:50.369 but any any questions at this point  
NOTE Confidence: 0.96470181

01:15:50.369 --> 01:15:52.676 or we'll move on to our next part.  
NOTE Confidence: 0.9049226525

01:15:52.990 --> 01:15:54.180 I have a question again.  
NOTE Confidence: 0.9049226525

01:15:54.180 --> 01:15:55.370 Reagan for child Dallas.  
NOTE Confidence: 0.9049226525

01:15:55.370 --> 01:15:58.990 Hi, Jennie, thank you for help.  
NOTE Confidence: 0.9049226525

01:15:58.990 --> 01:16:00.214 Still haven't found anybody  
NOTE Confidence: 0.9049226525

01:16:00.214 --> 01:16:02.070 by the way Michael no.  
NOTE Confidence: 0.77801097

01:16:03.320 --> 01:16:05.605 The half day and the half day  
NOTE Confidence: 0.77801097

01:16:05.605 --> 01:16:07.460 assessment that obviously is



NOTE Confidence: 0.92979133875  
01:16:07.460 --> 01:16:09.332 significant and in terms  
NOTE Confidence: 0.92979133875  
01:16:09.332 --> 01:16:11.204 of growing or scaling.  
NOTE Confidence: 0.92979133875  
01:16:11.210 --> 01:16:14.036 Is there any thought how that  
NOTE Confidence: 0.92979133875  
01:16:14.036 --> 01:16:16.580 might be compressed or so that  
NOTE Confidence: 0.92979133875  
01:16:16.580 --> 01:16:17.505 you could see more patients?  
NOTE Confidence: 0.938666383684211  
01:16:18.290 --> 01:16:20.706 Yeah, so I mean, we've tried to gather  
NOTE Confidence: 0.938666383684211  
01:16:20.706 --> 01:16:22.875 as much information at the beginning  
NOTE Confidence: 0.938666383684211  
01:16:22.875 --> 01:16:25.648 as possible so we have them fill out a  
NOTE Confidence: 0.938666383684211  
01:16:25.650 --> 01:16:27.730 pretty lengthy symptom questionnaire to  
NOTE Confidence: 0.938666383684211  
01:16:27.730 --> 01:16:30.768 really try to target the focus of the  
NOTE Confidence: 0.938666383684211  
01:16:30.768 --> 01:16:32.820 discussion and also the rating scales.  
NOTE Confidence: 0.938666383684211  
01:16:32.820 --> 01:16:34.964 And I think I think a division of  
NOTE Confidence: 0.938666383684211  
01:16:34.964 --> 01:16:37.166 Labor would probably help us right now.  
NOTE Confidence: 0.938666383684211  
01:16:37.170 --> 01:16:38.689 Michael and I are the ones that  
NOTE Confidence: 0.938666383684211  
01:16:38.689 --> 01:16:40.000 are actually doing the interview,  
NOTE Confidence: 0.938666383684211

01:16:40.000 --> 01:16:41.510 but also doing the ratings.  
NOTE Confidence: 0.938666383684211

01:16:41.510 --> 01:16:43.715 Scales and so I think being able to grow  
NOTE Confidence: 0.938666383684211

01:16:43.715 --> 01:16:45.931 our staff in a way that someone else is  
NOTE Confidence: 0.938666383684211

01:16:45.931 --> 01:16:48.057 able to do some other reading skills  
NOTE Confidence: 0.938666383684211

01:16:48.057 --> 01:16:50.026 while we're talking with the parents,  
NOTE Confidence: 0.938666383684211

01:16:50.026 --> 01:16:53.034 I think we could probably compress our time  
NOTE Confidence: 0.938666383684211

01:16:53.034 --> 01:16:56.009 if we had a little bit of a bigger team.  
NOTE Confidence: 0.938666383684211

01:16:56.010 --> 01:16:56.480 Thank you.  
NOTE Confidence: 0.732020587142857

01:16:58.200 --> 01:17:00.895 Carol, may I turn to you too?  
NOTE Confidence: 0.732020587142857

01:17:00.900 --> 01:17:02.540 Bring our next two speakers.  
NOTE Confidence: 0.7359165

01:17:05.450 --> 01:17:07.530 Mute. You know how  
NOTE Confidence: 0.906594214

01:17:07.530 --> 01:17:10.385 long we have to be in using zoom for us  
NOTE Confidence: 0.906594214

01:17:10.385 --> 01:17:12.900 to remember to check if we're on mute  
NOTE Confidence: 0.906594214

01:17:12.900 --> 01:17:15.580 before we start talking many months now,  
NOTE Confidence: 0.906594214

01:17:15.580 --> 01:17:18.558 but the next clinical story that  
NOTE Confidence: 0.906594214

01:17:18.560 --> 01:17:20.079 I'm going to share is one from

NOTE Confidence: 0.906594214

01:17:20.079 --> 01:17:21.848 one of our social work fellows,

NOTE Confidence: 0.906594214

01:17:21.850 --> 01:17:24.325 Hector shy this hotel so it is a video,

NOTE Confidence: 0.906594214

01:17:24.330 --> 01:17:26.560 but he is also here to answer some questions.

NOTE Confidence: 0.906594214

01:17:26.560 --> 01:17:27.564 Should you have any.

NOTE Confidence: 0.906594214

01:17:27.564 --> 01:17:29.429 So bear with me 'cause the technology

NOTE Confidence: 0.906594214

01:17:29.429 --> 01:17:31.217 for me is often a challenge.

NOTE Confidence: 0.937350014285714

01:17:35.970 --> 01:17:38.308 Oh my, let's see. As I said,

NOTE Confidence: 0.937350014285714

01:17:38.310 --> 01:17:39.730 it is blocking the challenge.

NOTE Confidence: 0.937350014285714

01:17:39.730 --> 01:17:41.518 I can't seem to make it larger. Here we go.

NOTE Confidence: 0.655704946666667

01:17:43.580 --> 01:17:45.530 My name is Hector Chandler Rachel.

NOTE Confidence: 0.655704946666667

01:17:45.530 --> 01:17:47.722 I am a licensed Masters level social worker

NOTE Confidence: 0.655704946666667

01:17:47.722 --> 01:17:50.576 and I am in my second year of the Social

NOTE Confidence: 0.655704946666667

01:17:50.576 --> 01:17:52.597 work fellowship at the outpatient clinic.

NOTE Confidence: 0.655704946666667

01:17:52.600 --> 01:17:54.874 My fellowship position here consists of

NOTE Confidence: 0.655704946666667

01:17:54.874 --> 01:17:57.460 doing therapy with youth and their family,

NOTE Confidence: 0.655704946666667

01:17:57.460 --> 01:17:59.416 as well as getting access and  
NOTE Confidence: 0.655704946666667

01:17:59.416 --> 01:18:01.360 to different forms of training.  
NOTE Confidence: 0.655704946666667

01:18:01.360 --> 01:18:03.320 I think I may have had a very  
NOTE Confidence: 0.655704946666667

01:18:03.320 --> 01:18:04.389 different experience than many  
NOTE Confidence: 0.655704946666667

01:18:04.389 --> 01:18:05.973 clinicians here since I started my  
NOTE Confidence: 0.655704946666667

01:18:05.973 --> 01:18:07.925 time here in the middle of a pandemic,  
NOTE Confidence: 0.655704946666667

01:18:07.930 --> 01:18:10.222 which is to say it lightly  
NOTE Confidence: 0.655704946666667

01:18:10.222 --> 01:18:11.750 has had several challenges.  
NOTE Confidence: 0.655704946666667

01:18:11.750 --> 01:18:12.836 I do want to start though,  
NOTE Confidence: 0.655704946666667

01:18:12.840 --> 01:18:14.709 by sharing a little bit about my.  
NOTE Confidence: 0.655704946666667

01:18:14.710 --> 01:18:17.034 Work with one of my families and  
NOTE Confidence: 0.655704946666667

01:18:17.034 --> 01:18:19.179 how this services have really made  
NOTE Confidence: 0.655704946666667

01:18:19.179 --> 01:18:21.345 a difference at the human level.  
NOTE Confidence: 0.655704946666667

01:18:21.350 --> 01:18:24.118 Yes, I'm sure you are all aware this  
NOTE Confidence: 0.655704946666667

01:18:24.118 --> 01:18:26.382 pandemic has created a major crisis  
NOTE Confidence: 0.655704946666667

01:18:26.382 --> 01:18:29.568 in the mental health field and as it

NOTE Confidence: 0.655704946666667

01:18:29.568 --> 01:18:32.154 has exacerbated and problems that many

NOTE Confidence: 0.655704946666667

01:18:32.154 --> 01:18:34.031 families already were struggling with.

NOTE Confidence: 0.655704946666667

01:18:34.031 --> 01:18:36.053 This was specially the case for

NOTE Confidence: 0.655704946666667

01:18:36.053 --> 01:18:38.399 one of the families who I started

NOTE Confidence: 0.655704946666667

01:18:38.399 --> 01:18:39.699 seeing earlier this year.

NOTE Confidence: 0.655704946666667

01:18:39.700 --> 01:18:41.878 My client is an 11 year old girl who

NOTE Confidence: 0.655704946666667

01:18:41.878 --> 01:18:44.168 sense with a lot of anxiety and she

NOTE Confidence: 0.655704946666667

01:18:44.168 --> 01:18:45.904 has also previously been diagnosed

NOTE Confidence: 0.655704946666667

01:18:45.904 --> 01:18:47.969 with learning disorders in reading,

NOTE Confidence: 0.655704946666667

01:18:47.970 --> 01:18:51.070 writing and math, among others.

NOTE Confidence: 0.655704946666667

01:18:51.070 --> 01:18:53.334 This is why it was no surprise and

NOTE Confidence: 0.655704946666667

01:18:53.334 --> 01:18:55.507 that you know she really struggled

NOTE Confidence: 0.655704946666667

01:18:55.507 --> 01:18:57.805 to adapt to the virtual learning

NOTE Confidence: 0.655704946666667

01:18:57.871 --> 01:18:59.719 offered during the pandemic.

NOTE Confidence: 0.655704946666667

01:18:59.720 --> 01:19:01.736 One of the biggest stressors that

NOTE Confidence: 0.655704946666667

01:19:01.736 --> 01:19:03.816 family first came in with was  
NOTE Confidence: 0.655704946666667

01:19:03.816 --> 01:19:05.832 that they had requested a meeting  
NOTE Confidence: 0.655704946666667

01:19:05.832 --> 01:19:08.248 with school so that they could  
NOTE Confidence: 0.655704946666667

01:19:08.248 --> 01:19:09.928 receive special education services,  
NOTE Confidence: 0.655704946666667

01:19:09.930 --> 01:19:11.799 yet they've had fallen through the cracks.  
NOTE Confidence: 0.655704946666667

01:19:11.800 --> 01:19:14.096 As is often the case for many  
NOTE Confidence: 0.655704946666667

01:19:14.096 --> 01:19:15.080 families of color.  
NOTE Confidence: 0.655704946666667

01:19:15.080 --> 01:19:15.892 Mum though,  
NOTE Confidence: 0.655704946666667

01:19:15.892 --> 01:19:18.734 is a fierce advocate for her daughter,  
NOTE Confidence: 0.655704946666667

01:19:18.740 --> 01:19:19.900 but even then she.  
NOTE Confidence: 0.655704946666667

01:19:19.900 --> 01:19:21.640 Reported to me that she often  
NOTE Confidence: 0.655704946666667

01:19:21.702 --> 01:19:23.900 felt like her voice was not heard  
NOTE Confidence: 0.655704946666667

01:19:23.900 --> 01:19:25.569 in those different systems to  
NOTE Confidence: 0.655704946666667

01:19:25.569 --> 01:19:27.229 do language barriers and because  
NOTE Confidence: 0.655704946666667

01:19:27.229 --> 01:19:29.422 they were a Hispanic family.  
NOTE Confidence: 0.655704946666667

01:19:29.422 --> 01:19:31.210 Unfortunately, you know,

NOTE Confidence: 0.655704946666667  
01:19:31.210 --> 01:19:34.074 coming back to in person school has only  
NOTE Confidence: 0.655704946666667  
01:19:34.074 --> 01:19:36.321 increased her daughters symptoms as she  
NOTE Confidence: 0.655704946666667  
01:19:36.321 --> 01:19:39.110 presents with a lot of school anxiety,  
NOTE Confidence: 0.655704946666667  
01:19:39.110 --> 01:19:41.700 primarily due to her reported  
NOTE Confidence: 0.655704946666667  
01:19:41.700 --> 01:19:44.955 team of feeling behind the rest  
NOTE Confidence: 0.655704946666667  
01:19:44.955 --> 01:19:47.247 of her peers academically.  
NOTE Confidence: 0.655704946666667  
01:19:47.250 --> 01:19:49.555 Despite the difficulties the families  
NOTE Confidence: 0.655704946666667  
01:19:49.555 --> 01:19:51.320 experience, I cannot say enough.  
NOTE Confidence: 0.655704946666667  
01:19:51.320 --> 01:19:52.945 Good things about the family.  
NOTE Confidence: 0.655704946666667  
01:19:52.950 --> 01:19:55.484 Mum always comes back to me with  
NOTE Confidence: 0.655704946666667  
01:19:55.490 --> 01:19:57.625 this phrase and she says like that  
NOTE Confidence: 0.655704946666667  
01:19:57.625 --> 01:20:00.349 I can see in which angle by landed.  
NOTE Confidence: 0.655704946666667  
01:20:00.350 --> 01:20:03.766 But we have to keep fighting moving forward.  
NOTE Confidence: 0.655704946666667  
01:20:03.770 --> 01:20:06.266 So when I asked the family,  
NOTE Confidence: 0.655704946666667  
01:20:06.270 --> 01:20:08.970 you know if I could share this story I I  
NOTE Confidence: 0.655704946666667

01:20:09.045 --> 01:20:12.085 felt it was important to elevate their voice,  
NOTE Confidence: 0.655704946666667

01:20:12.090 --> 01:20:15.394 specially moms voice and in our space.  
NOTE Confidence: 0.655704946666667

01:20:15.400 --> 01:20:17.504 And so I asked them what they thought  
NOTE Confidence: 0.655704946666667

01:20:17.504 --> 01:20:19.585 and what she thought would be important  
NOTE Confidence: 0.655704946666667

01:20:19.585 --> 01:20:21.879 that I share with all of you today.  
NOTE Confidence: 0.655704946666667

01:20:21.880 --> 01:20:23.959 She asked me to share how important  
NOTE Confidence: 0.655704946666667

01:20:23.959 --> 01:20:26.229 therapy has been for her and her family.  
NOTE Confidence: 0.655704946666667

01:20:26.230 --> 01:20:28.281 She told me to mention that she  
NOTE Confidence: 0.655704946666667

01:20:28.281 --> 01:20:30.000 has been treated like family not  
NOTE Confidence: 0.655704946666667

01:20:30.000 --> 01:20:33.092 only by me just by me, but by you.  
NOTE Confidence: 0.655704946666667

01:20:33.092 --> 01:20:35.148 Know front desk staff.  
NOTE Confidence: 0.655704946666667

01:20:35.150 --> 01:20:36.938 When when she first gets here  
NOTE Confidence: 0.655704946666667

01:20:36.938 --> 01:20:38.130 and even though up  
NOTE Confidence: 0.803569257727273

01:20:38.192 --> 01:20:40.568 to the prescriber who she sees her for  
NOTE Confidence: 0.803569257727273

01:20:40.568 --> 01:20:42.762 her other two boys and she mentioned  
NOTE Confidence: 0.803569257727273

01:20:42.762 --> 01:20:44.826 that these are services that are



NOTE Confidence: 0.803569257727273

01:20:44.826 --> 01:20:47.183 so badly needed among our Hispanic

NOTE Confidence: 0.803569257727273

01:20:47.183 --> 01:20:49.835 community and every time she is able

NOTE Confidence: 0.803569257727273

01:20:49.835 --> 01:20:52.054 to achieve her first families to us.

NOTE Confidence: 0.803569257727273

01:20:52.060 --> 01:20:54.516 Which I think speaks very highly of her

NOTE Confidence: 0.803569257727273

01:20:54.516 --> 01:20:56.638 experience here at the CHILD Study Center.

NOTE Confidence: 0.803569257727273

01:20:56.640 --> 01:20:58.740 I think it's important to acknowledge how

NOTE Confidence: 0.803569257727273

01:20:58.740 --> 01:21:00.618 your contribution is making an important

NOTE Confidence: 0.803569257727273

01:21:00.618 --> 01:21:02.781 difference for families at this human level,

NOTE Confidence: 0.803569257727273

01:21:02.790 --> 01:21:05.058 especially right now when mental health

NOTE Confidence: 0.803569257727273

01:21:05.058 --> 01:21:07.050 services are so urgently needed.

NOTE Confidence: 0.803569257727273

01:21:07.050 --> 01:21:09.472 I want to thank you for making

NOTE Confidence: 0.803569257727273

01:21:09.472 --> 01:21:11.559 fellowships such as mine possible,

NOTE Confidence: 0.803569257727273

01:21:11.560 --> 01:21:13.426 as well as a Mexican immigrant.

NOTE Confidence: 0.803569257727273

01:21:13.430 --> 01:21:13.799 Myself.

NOTE Confidence: 0.803569257727273

01:21:13.799 --> 01:21:16.013 I feel strongly about not only

NOTE Confidence: 0.803569257727273

01:21:16.013 --> 01:21:18.135 using my Spanish speaking ability  
NOTE Confidence: 0.803569257727273

01:21:18.135 --> 01:21:20.485 to serve community by community,  
NOTE Confidence: 0.803569257727273

01:21:20.490 --> 01:21:22.668 but also placing myself in environments.  
NOTE Confidence: 0.803569257727273

01:21:22.670 --> 01:21:24.260 Ranking grow to be the clinician.  
NOTE Confidence: 0.803569257727273

01:21:24.260 --> 01:21:25.250 My families deserve.  
NOTE Confidence: 0.803569257727273

01:21:25.250 --> 01:21:28.420 This is why I'm here and I think this  
NOTE Confidence: 0.803569257727273

01:21:28.420 --> 01:21:31.564 fellowship is so important to my growth here.  
NOTE Confidence: 0.803569257727273

01:21:31.570 --> 01:21:33.730 I have been able to have access to  
NOTE Confidence: 0.803569257727273

01:21:33.730 --> 01:21:35.540 a Spanish lead supervisor who has  
NOTE Confidence: 0.803569257727273

01:21:35.540 --> 01:21:37.833 helped me fill gaps in my learning  
NOTE Confidence: 0.803569257727273

01:21:37.833 --> 01:21:40.377 related to my work with Spanish  
NOTE Confidence: 0.803569257727273

01:21:40.377 --> 01:21:41.649 speaking immigrant families.  
NOTE Confidence: 0.803569257727273

01:21:41.650 --> 01:21:43.642 I also have access to opportunities  
NOTE Confidence: 0.803569257727273

01:21:43.642 --> 01:21:45.921 such as forming part of the trauma  
NOTE Confidence: 0.803569257727273

01:21:45.921 --> 01:21:48.330 clinic and being able to learn  
NOTE Confidence: 0.803569257727273

01:21:48.330 --> 01:21:50.018 it's exciting interventions such

NOTE Confidence: 0.803569257727273

01:21:50.018 --> 01:21:52.728 as CFTS I which I plan and to use.

NOTE Confidence: 0.803569257727273

01:21:52.730 --> 01:21:55.358 In my future work with Spanish

NOTE Confidence: 0.803569257727273

01:21:55.358 --> 01:21:56.672 speaking immigrant families.

NOTE Confidence: 0.803569257727273

01:21:56.680 --> 01:21:58.552 I am thankful for the opportunities

NOTE Confidence: 0.803569257727273

01:21:58.552 --> 01:22:00.496 which all of you make possible

NOTE Confidence: 0.803569257727273

01:22:00.496 --> 01:22:02.404 and hope they only continue to

NOTE Confidence: 0.803569257727273

01:22:02.404 --> 01:22:04.600 grow for future social work films.

NOTE Confidence: 0.803569257727273

01:22:04.600 --> 01:22:05.060 Thank you.

NOTE Confidence: 0.9858368

01:22:10.690 --> 01:22:12.630 Thank you very much and just

NOTE Confidence: 0.9858368

01:22:12.630 --> 01:22:14.290 on that connection to the

NOTE Confidence: 0.888837566875

01:22:14.363 --> 01:22:16.722 trauma service and to see FTSI let

NOTE Confidence: 0.888837566875

01:22:16.722 --> 01:22:18.696 me turn it over to Carrie Epstein.

NOTE Confidence: 0.7567774633333333

01:22:21.050 --> 01:22:21.920 Thank you Linda.

NOTE Confidence: 0.73378307

01:22:30.480 --> 01:22:30.910 OK.

NOTE Confidence: 0.88859993

01:22:37.580 --> 01:22:40.080 So hello everyone, I'm Carrie Upstein

NOTE Confidence: 0.849426194

01:22:40.080 --> 01:22:42.688 and I'm the Co director of the Yale Center  
NOTE Confidence: 0.849426194

01:22:42.690 --> 01:22:45.040 for Traumatic Stress and Recovery along  
NOTE Confidence: 0.849426194

01:22:45.040 --> 01:22:48.330 with my Co director doctor Steven Marans.  
NOTE Confidence: 0.849426194

01:22:48.330 --> 01:22:51.028 I'm honored to be with you today.  
NOTE Confidence: 0.849426194

01:22:51.030 --> 01:22:52.886 I'd like to continue to shine a light  
NOTE Confidence: 0.849426194

01:22:52.886 --> 01:22:54.603 on the incredible clinical work is  
NOTE Confidence: 0.849426194

01:22:54.603 --> 01:22:56.830 being done at the CHLD Study Center,  
NOTE Confidence: 0.849426194

01:22:56.830 --> 01:22:59.200 particularly with respect to the clinical  
NOTE Confidence: 0.849426194

01:22:59.200 --> 01:23:01.622 work and research being done with  
NOTE Confidence: 0.849426194

01:23:01.622 --> 01:23:03.950 children and families impacted by trauma.  
NOTE Confidence: 0.849426194

01:23:03.950 --> 01:23:05.612 You'll you've heard from and will  
NOTE Confidence: 0.849426194

01:23:05.612 --> 01:23:07.534 continue to hear from other colleagues  
NOTE Confidence: 0.849426194

01:23:07.534 --> 01:23:09.424 about their important clinical work  
NOTE Confidence: 0.849426194

01:23:09.424 --> 01:23:11.070 with children impacted by trauma  
NOTE Confidence: 0.849426194

01:23:11.070 --> 01:23:12.911 you just heard from Hector and  
NOTE Confidence: 0.849426194

01:23:12.911 --> 01:23:15.960 what I'd like to highlight today.

NOTE Confidence: 0.849426194  
01:23:15.960 --> 01:23:16.480 Beginning with.  
NOTE Confidence: 0.97136164  
01:23:18.270 --> 01:23:19.730 Sorry mommy.  
NOTE Confidence: 0.95147734  
01:23:21.260 --> 01:23:22.280 What I'd like to highlight  
NOTE Confidence: 0.903045697  
01:23:22.290 --> 01:23:24.035 today is an early intervention  
NOTE Confidence: 0.903045697  
01:23:24.035 --> 01:23:25.780 called the child and family.  
NOTE Confidence: 0.903045697  
01:23:25.780 --> 01:23:27.820 Traumatic stress, intervention or CF  
NOTE Confidence: 0.903045697  
01:23:27.820 --> 01:23:30.580 TSI with which Hector just mentioned,  
NOTE Confidence: 0.903045697  
01:23:30.580 --> 01:23:33.660 which is a brief 5 to 8 session  
NOTE Confidence: 0.903045697  
01:23:33.660 --> 01:23:35.460 trauma focused evidence based mental  
NOTE Confidence: 0.903045697  
01:23:35.460 --> 01:23:37.567 health treatment developed by myself  
NOTE Confidence: 0.903045697  
01:23:37.567 --> 01:23:39.960 and doctor Steven Marans CFTS.  
NOTE Confidence: 0.903045697  
01:23:39.960 --> 01:23:42.706 I grew out of more than three decades  
NOTE Confidence: 0.903045697  
01:23:42.706 --> 01:23:45.484 of closely observing on learning about  
NOTE Confidence: 0.903045697  
01:23:45.484 --> 01:23:48.010 the phenomena of trauma from children  
NOTE Confidence: 0.903045697  
01:23:48.080 --> 01:23:50.090 and families impacted by abuse,  
NOTE Confidence: 0.903045697

01:23:50.090 --> 01:23:52.720 violence and other traumatic events.  
NOTE Confidence: 0.903045697

01:23:52.720 --> 01:23:55.080 Currently see if TSI is the only evidence  
NOTE Confidence: 0.903045697

01:23:55.080 --> 01:23:56.819 based treatment that was specifically  
NOTE Confidence: 0.903045697

01:23:56.820 --> 01:23:58.395 developed for implementation in the  
NOTE Confidence: 0.903045697

01:23:58.395 --> 01:24:00.170 early phase of trauma response.  
NOTE Confidence: 0.903045697

01:24:00.170 --> 01:24:02.168 Soon after a recent traumatic event  
NOTE Confidence: 0.903045697

01:24:02.168 --> 01:24:04.640 or soon after the recent disclosure  
NOTE Confidence: 0.9587733025

01:24:04.650 --> 01:24:06.790 of abuse. So based  
NOTE Confidence: 0.954673604

01:24:06.800 --> 01:24:08.650 on a family strengthening approach,  
NOTE Confidence: 0.954673604

01:24:08.650 --> 01:24:11.390 CTSI increases communication between  
NOTE Confidence: 0.954673604

01:24:11.390 --> 01:24:13.896 the child and caregiver about the  
NOTE Confidence: 0.954673604

01:24:13.896 --> 01:24:17.052 child trauma symptoms and as a  
NOTE Confidence: 0.954673604

01:24:17.052 --> 01:24:19.450 result increases family support.  
NOTE Confidence: 0.954673604

01:24:19.450 --> 01:24:21.740 For children impacted by traumatic events.  
NOTE Confidence: 0.66065335

01:24:24.490 --> 01:24:26.988 CSI has demonstrated effectiveness  
NOTE Confidence: 0.66065335

01:24:26.990 --> 01:24:28.858 in significantly reducing traumatic

NOTE Confidence: 0.66065335

01:24:28.858 --> 01:24:31.193 stress symptoms and reducing and

NOTE Confidence: 0.66065335

01:24:31.193 --> 01:24:33.042 interrupting PTSD and related disorders

NOTE Confidence: 0.66065335

01:24:33.042 --> 01:24:35.669 in children as well as their caregivers.

NOTE Confidence: 0.66065335

01:24:35.670 --> 01:24:37.770 In fact, our studies indicate that

NOTE Confidence: 0.66065335

01:24:37.770 --> 01:24:40.962 children who receive CFTS I are 65%

NOTE Confidence: 0.66065335

01:24:40.962 --> 01:24:43.399 less likely to meet criteria for post

NOTE Confidence: 0.66065335

01:24:43.400 --> 01:24:46.688 traumatic stress disorder and are 73%

NOTE Confidence: 0.66065335

01:24:46.688 --> 01:24:49.614 less likely to be diagnosed with related

NOTE Confidence: 0.66065335

01:24:49.614 --> 01:24:52.029 anxiety and depressive disorders.

NOTE Confidence: 0.66065335

01:24:52.030 --> 01:24:54.857 In addition, in a recent study we

NOTE Confidence: 0.66065335

01:24:54.857 --> 01:24:56.942 also learned that CFTS significantly

NOTE Confidence: 0.66065335

01:24:56.942 --> 01:24:59.098 reduces trauma symptoms and caregivers

NOTE Confidence: 0.66065335

01:24:59.098 --> 01:25:01.654 who participate in treatment as well.

NOTE Confidence: 0.92503047

01:25:03.670 --> 01:25:05.285 Hearing about the horrors that too

NOTE Confidence: 0.92503047

01:25:05.285 --> 01:25:06.706 many children are confronted with

NOTE Confidence: 0.92503047

01:25:06.706 --> 01:25:08.518 when they're exposed to violence and  
NOTE Confidence: 0.92503047

01:25:08.518 --> 01:25:11.234 trauma can be especially unbearable if  
NOTE Confidence: 0.92503047

01:25:11.234 --> 01:25:13.298 we feel helpless in providing relief,  
NOTE Confidence: 0.92503047

01:25:13.300 --> 01:25:15.100 or if we believe that there is no  
NOTE Confidence: 0.92503047

01:25:15.100 --> 01:25:16.682 escape from their immediate suffering  
NOTE Confidence: 0.92503047

01:25:16.682 --> 01:25:18.471 or were convinced that their futures  
NOTE Confidence: 0.92503047

01:25:18.471 --> 01:25:21.438 are forever damaged or impaired.  
NOTE Confidence: 0.92503047

01:25:21.440 --> 01:25:25.200 CFTS, I not only reduces immediate suffering.  
NOTE Confidence: 0.884495748

01:25:27.790 --> 01:25:29.450 Of traumatized children and families,  
NOTE Confidence: 0.884495748

01:25:29.450 --> 01:25:31.170 and reduces long term damage  
NOTE Confidence: 0.884495748

01:25:31.170 --> 01:25:33.768 to their development.  
NOTE Confidence: 0.884495748

01:25:33.770 --> 01:25:35.732 But it also identifies and ensures  
NOTE Confidence: 0.884495748

01:25:35.732 --> 01:25:37.040 that they receive additional  
NOTE Confidence: 0.884495748

01:25:37.099 --> 01:25:38.919 psychotherapeutic help when needed.  
NOTE Confidence: 0.94088876

01:25:41.390 --> 01:25:42.813 Let me illustrate this  
NOTE Confidence: 0.94088876

01:25:42.813 --> 01:25:44.918 with the story of Alexa.



NOTE Confidence: 0.94088876

01:25:44.920 --> 01:25:47.755 Alexa was a 10 year old girl who was

NOTE Confidence: 0.94088876

01:25:47.755 --> 01:25:49.580 referred to us by Child Protective

NOTE Confidence: 0.94088876

01:25:49.580 --> 01:25:50.940 Services following her disclosure

NOTE Confidence: 0.94088876

01:25:50.940 --> 01:25:53.876 of sexual abuse and a long history

NOTE Confidence: 0.94088876

01:25:53.876 --> 01:25:55.896 of exposure to domestic violence.

NOTE Confidence: 0.94088876

01:25:55.900 --> 01:25:57.270 At the time of her referral,

NOTE Confidence: 0.94088876

01:25:57.270 --> 01:25:58.344 Alexa was frightened.

NOTE Confidence: 0.94088876

01:25:58.344 --> 01:26:00.492 She was withdrawn and had multiple

NOTE Confidence: 0.94088876

01:26:00.492 --> 01:26:02.084 symptoms of traumatic dysregulation

NOTE Confidence: 0.94088876

01:26:02.084 --> 01:26:04.044 that disrupted her daily life,

NOTE Confidence: 0.94088876

01:26:04.050 --> 01:26:08.358 including her inability to attend school.

NOTE Confidence: 0.94088876

01:26:08.360 --> 01:26:10.544 As for all children impacted by

NOTE Confidence: 0.94088876

01:26:10.544 --> 01:26:12.470 trauma Alexis presenting symptoms of

NOTE Confidence: 0.94088876

01:26:12.470 --> 01:26:13.682 traumatic dysregulation perpetuated

NOTE Confidence: 0.94088876

01:26:13.682 --> 01:26:16.106 the original loss of control that

NOTE Confidence: 0.94088876

01:26:16.164 --> 01:26:19.120 she experienced as a victim of abuse.  
NOTE Confidence: 0.94088876

01:26:19.120 --> 01:26:22.140 And as a witness to the violence in her home.  
NOTE Confidence: 0.94088876

01:26:22.140 --> 01:26:25.400 CFTS, I offered Alexa an alternative  
NOTE Confidence: 0.94088876

01:26:25.400 --> 01:26:26.597 to these painful,  
NOTE Confidence: 0.94088876

01:26:26.597 --> 01:26:28.193 disturbing reactions by helping  
NOTE Confidence: 0.94088876

01:26:28.193 --> 01:26:30.548 her to better observe and find  
NOTE Confidence: 0.94088876

01:26:30.548 --> 01:26:31.996 words for her symptoms.  
NOTE Confidence: 0.94088876

01:26:32.000 --> 01:26:34.380 Find recognition and understanding of her  
NOTE Confidence: 0.94088876

01:26:34.380 --> 01:26:36.768 distress by her foster parents as well  
NOTE Confidence: 0.94088876

01:26:36.768 --> 01:26:39.180 as learning strategies to gain support,  
NOTE Confidence: 0.94088876

01:26:39.180 --> 01:26:42.000 mastery and control over the  
NOTE Confidence: 0.94088876

01:26:42.000 --> 01:26:44.820 symptoms of her traumatic distress.  
NOTE Confidence: 0.94088876

01:26:44.820 --> 01:26:48.326 So over the course of seven sessions of TSI,  
NOTE Confidence: 0.94088876

01:26:48.330 --> 01:26:50.907 Alexa was re able to return to  
NOTE Confidence: 0.94088876

01:26:50.907 --> 01:26:53.420 school and was no longer having the  
NOTE Confidence: 0.94088876

01:26:53.495 --> 01:26:55.700 nightmares and angry outbursts that

NOTE Confidence: 0.94088876

01:26:55.700 --> 01:26:58.880 had been happening on a daily basis.

NOTE Confidence: 0.94088876

01:26:58.880 --> 01:27:01.286 And because she was feeling in greater

NOTE Confidence: 0.94088876

01:27:01.286 --> 01:27:03.350 control of herself and her symptoms,

NOTE Confidence: 0.94088876

01:27:03.350 --> 01:27:06.756 she was now able to re engage into a

NOTE Confidence: 0.94088876

01:27:06.756 --> 01:27:10.032 safer world which she had withdrawn from.

NOTE Confidence: 0.94088876

01:27:10.040 --> 01:27:12.306 And then three months after

NOTE Confidence: 0.94088876

01:27:12.306 --> 01:27:13.584 finishing CTSI treatment,

NOTE Confidence: 0.94088876

01:27:13.584 --> 01:27:15.580 when we checked in with Alexa

NOTE Confidence: 0.94088876

01:27:15.580 --> 01:27:16.956 and her foster parents,

NOTE Confidence: 0.94088876

01:27:16.956 --> 01:27:19.692 Alexa was continuing to grow and re

NOTE Confidence: 0.94088876

01:27:19.692 --> 01:27:23.380 engage in a healthy, happier life.

NOTE Confidence: 0.94088876

01:27:23.380 --> 01:27:26.866 Alexa is not alone in this experience.

NOTE Confidence: 0.94088876

01:27:26.870 --> 01:27:29.502 Since the development of CFTS I cases

NOTE Confidence: 0.94088876

01:27:29.502 --> 01:27:31.403 involving thousands of children in

NOTE Confidence: 0.94088876

01:27:31.403 --> 01:27:33.533 New Haven around the country and

NOTE Confidence: 0.94088876

01:27:33.533 --> 01:27:35.411 across the world have demonstrated  
NOTE Confidence: 0.94088876

01:27:35.411 --> 01:27:38.716 the clinical efficacy of CSI.  
NOTE Confidence: 0.94088876

01:27:38.720 --> 01:27:39.606 To date,  
NOTE Confidence: 0.94088876

01:27:39.606 --> 01:27:42.162 we've trained close to 1200 clinicians  
NOTE Confidence: 0.94088876

01:27:42.162 --> 01:27:45.290 around the country in the CF TSI model.  
NOTE Confidence: 0.94088876

01:27:45.290 --> 01:27:47.840 Additionally, in response to a  
NOTE Confidence: 0.94088876

01:27:47.840 --> 01:27:49.370 considerable interest abroad,  
NOTE Confidence: 0.94088876

01:27:49.370 --> 01:27:51.210 we've trained colleagues in 12  
NOTE Confidence: 0.94088876

01:27:51.210 --> 01:27:52.720 European countries,  
NOTE Confidence: 0.94088876

01:27:52.720 --> 01:27:55.579 Australia and Lebanon.  
NOTE Confidence: 0.94088876

01:27:55.580 --> 01:27:58.058 CF TSI has been and continues to be  
NOTE Confidence: 0.94088876

01:27:58.060 --> 01:28:00.250 an essential intervention for so  
NOTE Confidence: 0.94088876

01:28:00.250 --> 01:28:02.242 many children who have suffered in a  
NOTE Confidence: 0.94088876

01:28:02.242 --> 01:28:04.305 world that is now additionally altered  
NOTE Confidence: 0.94088876

01:28:04.305 --> 01:28:07.150 by the restrictions of the COVID-19 pandemic.  
NOTE Confidence: 0.94088876

01:28:07.150 --> 01:28:09.580 While so many children may be

NOTE Confidence: 0.94088876

01:28:09.580 --> 01:28:11.820 impacted by violence and trauma,

NOTE Confidence: 0.94088876

01:28:11.820 --> 01:28:14.039 it's so important for us to all

NOTE Confidence: 0.94088876

01:28:14.039 --> 01:28:15.572 remember that these children can

NOTE Confidence: 0.94088876

01:28:15.572 --> 01:28:17.860 also have the opportunity to heal

NOTE Confidence: 0.94088876

01:28:17.860 --> 01:28:19.740 and although there is darkness,

NOTE Confidence: 0.94088876

01:28:19.740 --> 01:28:22.890 there's also light and hope.

NOTE Confidence: 0.94088876

01:28:22.890 --> 01:28:24.792 I'd like to finish with the

NOTE Confidence: 0.94088876

01:28:24.792 --> 01:28:25.426 following thought.

NOTE Confidence: 0.94088876

01:28:25.430 --> 01:28:27.430 As we've come to learn more about trauma

NOTE Confidence: 0.94088876

01:28:27.430 --> 01:28:29.650 through our research and our clinical work,

NOTE Confidence: 0.94088876

01:28:29.650 --> 01:28:31.592 we've also come to recognize

NOTE Confidence: 0.94088876

01:28:31.592 --> 01:28:33.432 that however much we've learned,

NOTE Confidence: 0.94088876

01:28:33.440 --> 01:28:34.692 just like the children and

NOTE Confidence: 0.94088876

01:28:34.692 --> 01:28:36.060 families we work with,

NOTE Confidence: 0.94088876

01:28:36.060 --> 01:28:37.939 if we are to have any chance of

NOTE Confidence: 0.94088876

01:28:37.940 --> 01:28:39.706 being successful on their behalf.  
NOTE Confidence: 0.94088876

01:28:39.706 --> 01:28:42.320 We cannot do this work alone.  
NOTE Confidence: 0.94088876

01:28:42.320 --> 01:28:44.868 I for one could not do the work that I do  
NOTE Confidence: 0.94088876

01:28:44.870 --> 01:28:48.349 without my colleagues who bring their ideas,  
NOTE Confidence: 0.94088876

01:28:48.350 --> 01:28:49.238 their resources,  
NOTE Confidence: 0.94088876

01:28:49.238 --> 01:28:52.000 their shared experience and their true  
NOTE Confidence: 0.94088876

01:28:52.000 --> 01:28:54.420 dedication to the challenges that we  
NOTE Confidence: 0.94088876

01:28:54.420 --> 01:28:56.650 tried to meet together every day.  
NOTE Confidence: 0.94088876

01:28:56.650 --> 01:28:59.170 Our work is never done.  
NOTE Confidence: 0.94088876

01:28:59.170 --> 01:29:00.570 We are enormously grateful for  
NOTE Confidence: 0.94088876

01:29:00.570 --> 01:29:01.970 the support of our work  
NOTE Confidence: 0.928962819666667

01:29:02.031 --> 01:29:03.963 that we've received from the Harris  
NOTE Confidence: 0.928962819666667

01:29:03.963 --> 01:29:05.647 Family Foundation from the Israel  
NOTE Confidence: 0.928962819666667

01:29:05.647 --> 01:29:07.337 Family Foundation and the support  
NOTE Confidence: 0.928962819666667

01:29:07.337 --> 01:29:09.086 from the associates over the years.  
NOTE Confidence: 0.928962819666667

01:29:09.086 --> 01:29:10.956 I really want to thank you all for the

NOTE Confidence: 0.928962819666667  
01:29:10.956 --> 01:29:12.650 opportunity to speak with you all today.  
NOTE Confidence: 0.877169012  
01:29:14.910 --> 01:29:17.980 Thank you so much Carrie.  
NOTE Confidence: 0.877169012  
01:29:17.980 --> 01:29:20.770 So we have two more just clinical  
NOTE Confidence: 0.877169012  
01:29:20.770 --> 01:29:22.794 clinical vignettes and teremia  
NOTE Confidence: 0.877169012  
01:29:22.794 --> 01:29:25.590 turned back to you. Sure,  
NOTE Confidence: 0.966539122  
01:29:26.160 --> 01:29:28.180 sorry about that interruption before.  
NOTE Confidence: 0.966539122  
01:29:28.180 --> 01:29:31.185 I didn't realize it wasn't on mute and.  
NOTE Confidence: 0.966539122  
01:29:31.185 --> 01:29:34.815 Carrie Epstein just spoke with us  
NOTE Confidence: 0.966539122  
01:29:34.815 --> 01:29:37.350 about some of the trauma interventions,  
NOTE Confidence: 0.966539122  
01:29:37.350 --> 01:29:40.923 and about 60% of the kids that come  
NOTE Confidence: 0.966539122  
01:29:40.923 --> 01:29:42.520 through our clinic have had exposure  
NOTE Confidence: 0.966539122  
01:29:42.520 --> 01:29:44.452 to at least one traumatic event,  
NOTE Confidence: 0.966539122  
01:29:44.452 --> 01:29:47.210 and we're going to hear now from  
NOTE Confidence: 0.966539122  
01:29:47.287 --> 01:29:49.367 one of our clinical faculty,  
NOTE Confidence: 0.966539122  
01:29:49.370 --> 01:29:53.351 Stephanie Gary, who is going to share  
NOTE Confidence: 0.966539122

01:29:53.351 --> 01:29:56.480 a case that is related to trauma.

NOTE Confidence: 0.966539122

01:29:56.480 --> 01:29:58.379 And you, I will ask for your Grace again,

NOTE Confidence: 0.966539122

01:29:58.380 --> 01:29:59.955 because I will be sharing a video.

NOTE Confidence: 0.966539122

01:29:59.960 --> 01:30:00.070 I'll

NOTE Confidence: 0.9654667

01:30:00.080 --> 01:30:00.788 see what happens.

NOTE Confidence: 0.82113101

01:30:09.620 --> 01:30:12.296 Hello everyone my name is Stephanie,

NOTE Confidence: 0.82113101

01:30:12.300 --> 01:30:15.247 Gary and I am an outpatient clinician

NOTE Confidence: 0.82113101

01:30:15.247 --> 01:30:18.239 at the Yale Child Study Center.

NOTE Confidence: 0.82113101

01:30:18.240 --> 01:30:20.310 Professional journey began at the

NOTE Confidence: 0.82113101

01:30:20.310 --> 01:30:23.402 center a little over six years ago and

NOTE Confidence: 0.82113101

01:30:23.402 --> 01:30:25.818 during my time here I have served as

NOTE Confidence: 0.82113101

01:30:25.818 --> 01:30:28.647 a clinician and clinical supervisor.

NOTE Confidence: 0.82113101

01:30:28.650 --> 01:30:30.410 Reflecting on my career,

NOTE Confidence: 0.82113101

01:30:30.410 --> 01:30:32.610 I recall entering this field

NOTE Confidence: 0.82113101

01:30:32.610 --> 01:30:35.499 because I saw the value in mental

NOTE Confidence: 0.82113101

01:30:35.499 --> 01:30:37.083 health and particularly early



NOTE Confidence: 0.82113101

01:30:37.162 --> 01:30:39.109 interventions for children.

NOTE Confidence: 0.82113101

01:30:39.110 --> 01:30:41.782 I was motivated by the idea of making

NOTE Confidence: 0.82113101

01:30:41.782 --> 01:30:44.050 a positive impact on the lives of

NOTE Confidence: 0.82113101

01:30:44.050 --> 01:30:46.857 children and it is my hope that by

NOTE Confidence: 0.82113101

01:30:46.857 --> 01:30:49.269 introducing argued to therapy early on,

NOTE Confidence: 0.82113101

01:30:49.270 --> 01:30:51.925 our society will come to

NOTE Confidence: 0.82113101

01:30:51.925 --> 01:30:54.049 destigmatize mental health concerns.

NOTE Confidence: 0.82113101

01:30:54.050 --> 01:30:57.333 Now before capturing a snapshot of my

NOTE Confidence: 0.82113101

01:30:57.333 --> 01:30:59.240 clients treatment experience today.

NOTE Confidence: 0.82113101

01:30:59.240 --> 01:31:01.480 I will lead with mentioning that it is

NOTE Confidence: 0.82113101

01:31:01.480 --> 01:31:03.787 an honor and a privilege to share with

NOTE Confidence: 0.82113101

01:31:03.787 --> 01:31:06.166 you all a glimpse of the clinical work

NOTE Confidence: 0.82113101

01:31:06.166 --> 01:31:08.460 we provide to families in our care.

NOTE Confidence: 0.82113101

01:31:08.460 --> 01:31:11.418 Thank you for this opportunity for

NOTE Confidence: 0.82113101

01:31:11.418 --> 01:31:13.708 supporting this mission and for

NOTE Confidence: 0.82113101

01:31:13.708 --> 01:31:16.280 your contributions to this practice.  
NOTE Confidence: 0.82113101

01:31:16.280 --> 01:31:18.716 To protect the privacy of my client,  
NOTE Confidence: 0.82113101

01:31:18.720 --> 01:31:21.674 I will refer to them using fictitious  
NOTE Confidence: 0.82113101

01:31:21.674 --> 01:31:24.280 names to begin Sierra and adolescent  
NOTE Confidence: 0.82113101

01:31:24.280 --> 01:31:27.894 female was referred to the clinic by her  
NOTE Confidence: 0.82113101

01:31:27.894 --> 01:31:30.600 mother Mrs Night for anxiety treatment.  
NOTE Confidence: 0.82113101

01:31:30.600 --> 01:31:31.034 Sierra,  
NOTE Confidence: 0.82113101

01:31:31.034 --> 01:31:32.336 an exceptional student,  
NOTE Confidence: 0.82113101

01:31:32.336 --> 01:31:34.940 was so overcome with anxiety that  
NOTE Confidence: 0.82113101

01:31:35.015 --> 01:31:36.870 she struggled to attend school  
NOTE Confidence: 0.82113101

01:31:36.870 --> 01:31:38.354 on a regular basis.  
NOTE Confidence: 0.82113101

01:31:38.360 --> 01:31:40.040 When she did attend school,  
NOTE Confidence: 0.82113101

01:31:40.040 --> 01:31:41.900 she would have panic attacks,  
NOTE Confidence: 0.82113101

01:31:41.900 --> 01:31:43.995 often calling her mother frantically  
NOTE Confidence: 0.82113101

01:31:43.995 --> 01:31:46.530 and requesting to get picked up  
NOTE Confidence: 0.82113101

01:31:46.530 --> 01:31:48.410 for early dismissal from school.

NOTE Confidence: 0.82113101  
01:31:48.410 --> 01:31:49.310 Other times,  
NOTE Confidence: 0.82113101  
01:31:49.310 --> 01:31:51.560 her anxiety emerged during long  
NOTE Confidence: 0.82113101  
01:31:51.560 --> 01:31:54.603 road trips and she had no idea  
NOTE Confidence: 0.82113101  
01:31:54.603 --> 01:31:56.623 what was triggering her panic  
NOTE Confidence: 0.82113101  
01:31:56.623 --> 01:31:58.638 attacks and working with Sierra,  
NOTE Confidence: 0.82113101  
01:31:58.638 --> 01:32:00.246 it was initially very  
NOTE Confidence: 0.82113101  
01:32:00.246 --> 01:32:02.169 challenging to engage with her.  
NOTE Confidence: 0.82113101  
01:32:02.170 --> 01:32:04.266 Sierra was highly guarded  
NOTE Confidence: 0.82113101  
01:32:04.266 --> 01:32:05.838 and understandably so,  
NOTE Confidence: 0.82113101  
01:32:05.840 --> 01:32:08.101 as she worried greatly that therapy would  
NOTE Confidence: 0.82113101  
01:32:08.101 --> 01:32:10.934 force her out of her comfort zone to Sierra.  
NOTE Confidence: 0.82113101  
01:32:10.934 --> 01:32:13.328 Therapy was a place where she would  
NOTE Confidence: 0.82113101  
01:32:13.328 --> 01:32:15.999 have to confront her fears so that  
NOTE Confidence: 0.82113101  
01:32:15.999 --> 01:32:18.110 she could finally overcome anxiety.  
NOTE Confidence: 0.82113101  
01:32:18.110 --> 01:32:19.433 With that mindset,  
NOTE Confidence: 0.82113101

01:32:19.433 --> 01:32:22.079 naturally she had her walls up.

NOTE Confidence: 0.82113101

01:32:22.080 --> 01:32:22.561 However,

NOTE Confidence: 0.82113101

01:32:22.561 --> 01:32:24.966 in building a therapeutic relationship

NOTE Confidence: 0.82113101

01:32:24.966 --> 01:32:28.110 and creating a safe space to explore

NOTE Confidence: 0.82113101

01:32:28.110 --> 01:32:29.082 Sierra's feelings,

NOTE Confidence: 0.82113101

01:32:29.082 --> 01:32:31.026 she gradually opened up.

NOTE Confidence: 0.82113101

01:32:31.030 --> 01:32:32.960 Meanwhile, in working with Mrs.

NOTE Confidence: 0.82113101

01:32:32.960 --> 01:32:33.316 Night,

NOTE Confidence: 0.82113101

01:32:33.316 --> 01:32:36.164 she supported CRS therapy in a way that

NOTE Confidence: 0.82113101

01:32:36.164 --> 01:32:38.928 was anchoring for her daughter, Mrs.

NOTE Confidence: 0.82113101

01:32:38.928 --> 01:32:41.376 Night learned ways to model courage.

NOTE Confidence: 0.82113101

01:32:41.380 --> 01:32:44.460 She was also invested in supporting her

NOTE Confidence: 0.82113101

01:32:44.460 --> 01:32:46.856 daughter to challenge negative thoughts

NOTE Confidence: 0.82113101

01:32:46.856 --> 01:32:49.844 as she was instrumental in applying

NOTE Confidence: 0.82113101

01:32:49.844 --> 01:32:53.011 problem solving skills to help her

NOTE Confidence: 0.82113101

01:32:53.011 --> 01:32:55.103 daughter advocate stressful situations.

NOTE Confidence: 0.82113101

01:32:55.110 --> 01:32:57.074 As Sierra symptoms stabilize,

NOTE Confidence: 0.82113101

01:32:57.074 --> 01:32:59.038 she eventually revealed that

NOTE Confidence: 0.82113101

01:32:59.038 --> 01:33:01.465 a traumatic experience was the

NOTE Confidence: 0.82113101

01:33:01.465 --> 01:33:03.745 driving force behind her anxiety.

NOTE Confidence: 0.82113101

01:33:03.750 --> 01:33:06.286 As a result of her commitment to therapy,

NOTE Confidence: 0.82113101

01:33:06.290 --> 01:33:08.186 she ultimately arrived at a place

NOTE Confidence: 0.82113101

01:33:08.186 --> 01:33:10.426 where she was ready to process

NOTE Confidence: 0.82113101

01:33:10.426 --> 01:33:11.788 these underlying stressors,

NOTE Confidence: 0.82113101

01:33:11.790 --> 01:33:15.566 and her anxiety was deeply rooted in trauma.

NOTE Confidence: 0.82113101

01:33:15.570 --> 01:33:16.989 As treatment progressed,

NOTE Confidence: 0.82113101

01:33:16.989 --> 01:33:19.827 Sierra had a revelation where she

NOTE Confidence: 0.82113101

01:33:19.827 --> 01:33:22.223 discovered that when stuck in traffic

NOTE Confidence: 0.82113101

01:33:22.223 --> 01:33:24.490 during long rides away from home,

NOTE Confidence: 0.82113101

01:33:24.490 --> 01:33:25.999 it reminded her.

NOTE Confidence: 0.82113101

01:33:25.999 --> 01:33:28.011 Feeling trapped like during

NOTE Confidence: 0.82113101

01:33:28.011 --> 01:33:29.520 her traumatic experience.  
NOTE Confidence: 0.82113101

01:33:29.520 --> 01:33:31.792 Reading these insights to  
NOTE Confidence: 0.82113101

01:33:31.792 --> 01:33:32.928 Sierras consciousness,  
NOTE Confidence: 0.82113101

01:33:32.930 --> 01:33:34.550 she had finally found herself  
NOTE Confidence: 0.82113101

01:33:34.550 --> 01:33:36.016 in the driver's seat,  
NOTE Confidence: 0.82113101

01:33:36.016 --> 01:33:37.240 so to speak,  
NOTE Confidence: 0.82113101

01:33:37.240 --> 01:33:38.945 where she was in control  
NOTE Confidence: 0.82113101

01:33:38.945 --> 01:33:40.650 of her symptoms and her  
NOTE Confidence: 0.887219241111111

01:33:40.729 --> 01:33:43.713 symptoms no longer had the power over her.  
NOTE Confidence: 0.887219241111111

01:33:43.720 --> 01:33:46.348 This was truly an empowering and  
NOTE Confidence: 0.887219241111111

01:33:46.348 --> 01:33:48.100 triumphant moment for Sierra,  
NOTE Confidence: 0.887219241111111

01:33:48.100 --> 01:33:50.770 who continues to thrive today.  
NOTE Confidence: 0.887219241111111

01:33:50.770 --> 01:33:52.732 I'm happy to say that since  
NOTE Confidence: 0.887219241111111

01:33:52.732 --> 01:33:54.040 working through her traumas,  
NOTE Confidence: 0.887219241111111

01:33:54.040 --> 01:33:56.749 she attends school on a daily basis.  
NOTE Confidence: 0.887219241111111

01:33:56.750 --> 01:33:58.652 And she has taken several road

NOTE Confidence: 0.8872192411111111  
01:33:58.652 --> 01:34:00.640 trips to visit college campuses  
NOTE Confidence: 0.8872192411111111  
01:34:00.640 --> 01:34:02.890 in the absence of panic.  
NOTE Confidence: 0.8872192411111111  
01:34:02.890 --> 01:34:05.098 Sierra is currently a senior in  
NOTE Confidence: 0.8872192411111111  
01:34:05.098 --> 01:34:07.396 high school looking to pursue a  
NOTE Confidence: 0.8872192411111111  
01:34:07.396 --> 01:34:09.306 college education at the nation's  
NOTE Confidence: 0.8872192411111111  
01:34:09.306 --> 01:34:11.336 top universities where she hopes  
NOTE Confidence: 0.8872192411111111  
01:34:11.336 --> 01:34:13.680 to major in forensic psychology  
NOTE Confidence: 0.8872192411111111  
01:34:13.680 --> 01:34:15.618 and to ask for Mrs Night.  
NOTE Confidence: 0.8872192411111111  
01:34:15.620 --> 01:34:17.245 She is feeling more confident  
NOTE Confidence: 0.8872192411111111  
01:34:17.245 --> 01:34:19.318 that her child is now equipped  
NOTE Confidence: 0.8872192411111111  
01:34:19.318 --> 01:34:21.198 with the tools necessary for  
NOTE Confidence: 0.8872192411111111  
01:34:21.198 --> 01:34:23.625 Sierra to travel away from home  
NOTE Confidence: 0.8872192411111111  
01:34:23.625 --> 01:34:25.325 for her collegiate experience.  
NOTE Confidence: 0.8872192411111111  
01:34:25.330 --> 01:34:26.698 Thank you for your time everyone.  
NOTE Confidence: 0.852376395384615  
01:34:32.920 --> 01:34:35.304 Thank you so much and so we have  
NOTE Confidence: 0.852376395384615

01:34:35.304 --> 01:34:37.580 our last last clinical tasting.  
NOTE Confidence: 0.852376395384615

01:34:37.580 --> 01:34:39.380 Our clinical vignettes from that  
NOTE Confidence: 0.852376395384615

01:34:39.380 --> 01:34:43.200 doctor Nancy Close, Nancy. Thank  
NOTE Confidence: 0.823764786470588

01:34:43.210 --> 01:34:45.962 you Linda, and it's just an honor and  
NOTE Confidence: 0.823764786470588

01:34:45.962 --> 01:34:48.656 a pleasure to be here with all of you.  
NOTE Confidence: 0.823764786470588

01:34:48.660 --> 01:34:51.012 I'm going to share with you  
NOTE Confidence: 0.823764786470588

01:34:51.012 --> 01:34:52.708 the story of a little girl,  
NOTE Confidence: 0.823764786470588

01:34:52.710 --> 01:34:55.244 seven years old whose name is Tiana.  
NOTE Confidence: 0.823764786470588

01:34:55.250 --> 01:34:57.679 She is a child who has witnessed  
NOTE Confidence: 0.823764786470588

01:34:57.679 --> 01:35:00.030 intimate partner and community violence.  
NOTE Confidence: 0.823764786470588

01:35:00.030 --> 01:35:01.770 She's experienced neglect,  
NOTE Confidence: 0.823764786470588

01:35:01.770 --> 01:35:04.090 loss of her caregivers,  
NOTE Confidence: 0.823764786470588

01:35:04.090 --> 01:35:05.682 physical and sexual abuse,  
NOTE Confidence: 0.823764786470588

01:35:05.682 --> 01:35:08.869 and she is about two in one week.  
NOTE Confidence: 0.823764786470588

01:35:08.870 --> 01:35:11.216 Moved to her 10th foster home  
NOTE Confidence: 0.823764786470588

01:35:11.216 --> 01:35:13.240 since she was removed from.



NOTE Confidence: 0.823764786470588  
01:35:13.240 --> 01:35:16.310 Her mother at age 2 at age 4,  
NOTE Confidence: 0.823764786470588  
01:35:16.310 --> 01:35:18.804 she was placed in her grandmother's home  
NOTE Confidence: 0.823764786470588  
01:35:18.804 --> 01:35:20.914 and began child parent psychotherapy,  
NOTE Confidence: 0.823764786470588  
01:35:20.920 --> 01:35:23.872 which we refer to as CPP  
NOTE Confidence: 0.823764786470588  
01:35:23.872 --> 01:35:25.348 with her grandmother.  
NOTE Confidence: 0.823764786470588  
01:35:25.350 --> 01:35:28.218 CPP is an evidence based treatment  
NOTE Confidence: 0.823764786470588  
01:35:28.218 --> 01:35:30.720 that supports family strengths and  
NOTE Confidence: 0.823764786470588  
01:35:30.720 --> 01:35:32.752 relationships and helps families  
NOTE Confidence: 0.823764786470588  
01:35:32.752 --> 01:35:34.784 feeling grow after stressful  
NOTE Confidence: 0.823764786470588  
01:35:34.784 --> 01:35:36.989 and traumatic experiences.  
NOTE Confidence: 0.823764786470588  
01:35:36.990 --> 01:35:37.433 Unfortunately,  
NOTE Confidence: 0.823764786470588  
01:35:37.433 --> 01:35:40.977 Tiana was removed at age 5 after she  
NOTE Confidence: 0.823764786470588  
01:35:40.977 --> 01:35:44.315 was hit and bruised by her grandmother,  
NOTE Confidence: 0.823764786470588  
01:35:44.320 --> 01:35:46.845 but CPP and supervised visits  
NOTE Confidence: 0.823764786470588  
01:35:46.845 --> 01:35:48.360 continued with grandmother.  
NOTE Confidence: 0.823764786470588

01:35:48.360 --> 01:35:51.132 Grandmother still longs to be reunited  
NOTE Confidence: 0.823764786470588

01:35:51.132 --> 01:35:54.750 with Tiana and is working hard on her  
NOTE Confidence: 0.823764786470588

01:35:54.750 --> 01:35:58.350 case plan and her attendance is exceptional.  
NOTE Confidence: 0.823764786470588

01:35:58.350 --> 01:36:00.142 My work began with Tiana,  
NOTE Confidence: 0.823764786470588

01:36:00.142 --> 01:36:01.982 Tiana when she was five,  
NOTE Confidence: 0.823764786470588

01:36:01.990 --> 01:36:04.030 when her beloved clinician finished  
NOTE Confidence: 0.823764786470588

01:36:04.030 --> 01:36:06.610 her training and left the center.  
NOTE Confidence: 0.823764786470588

01:36:06.610 --> 01:36:09.277 This clinician had worked with Tiana and  
NOTE Confidence: 0.823764786470588

01:36:09.277 --> 01:36:11.660 grandmother to repair their relationship,  
NOTE Confidence: 0.823764786470588

01:36:11.660 --> 01:36:14.700 to support grandmother to understand  
NOTE Confidence: 0.823764786470588

01:36:14.700 --> 01:36:17.132 Tiana's trauma system symptoms,  
NOTE Confidence: 0.823764786470588

01:36:17.140 --> 01:36:19.028 things like difficulties regulating  
NOTE Confidence: 0.823764786470588

01:36:19.028 --> 01:36:21.388 her behaviors that were really  
NOTE Confidence: 0.823764786470588

01:36:21.388 --> 01:36:22.969 driven by deep sadness,  
NOTE Confidence: 0.823764786470588

01:36:22.970 --> 01:36:24.419 fear and anger,  
NOTE Confidence: 0.823764786470588

01:36:24.419 --> 01:36:26.351 and difficulties trusting that

NOTE Confidence: 0.823764786470588  
01:36:26.351 --> 01:36:28.480 adults would care for her.  
NOTE Confidence: 0.823764786470588  
01:36:28.480 --> 01:36:30.923 Keepers save and really see her as  
NOTE Confidence: 0.823764786470588  
01:36:30.923 --> 01:36:33.068 somebody who was worthy of love.  
NOTE Confidence: 0.823764786470588  
01:36:33.070 --> 01:36:36.148 I was able to provide continuity  
NOTE Confidence: 0.823764786470588  
01:36:36.148 --> 01:36:38.844 in this treatment because I  
NOTE Confidence: 0.823764786470588  
01:36:38.844 --> 01:36:41.040 was her clinician supervisor.  
NOTE Confidence: 0.823764786470588  
01:36:41.040 --> 01:36:43.340 Then COVID happened and in  
NOTE Confidence: 0.823764786470588  
01:36:43.340 --> 01:36:45.180 person treatment and DCF.  
NOTE Confidence: 0.823764786470588  
01:36:45.180 --> 01:36:47.500 Regular supervised visits were  
NOTE Confidence: 0.823764786470588  
01:36:47.500 --> 01:36:51.472 suspended from March 2020 to May 2021.  
NOTE Confidence: 0.823764786470588  
01:36:51.472 --> 01:36:54.424 The court date to determine permanency  
NOTE Confidence: 0.823764786470588  
01:36:54.424 --> 01:36:56.779 was scheduled for June 2020.  
NOTE Confidence: 0.823764786470588  
01:36:56.780 --> 01:36:58.910 It's been postponed multiple times.  
NOTE Confidence: 0.823764786470588  
01:36:58.910 --> 01:37:02.347 Due to COVID and will not occur  
NOTE Confidence: 0.823764786470588  
01:37:02.347 --> 01:37:05.430 until March 2, 2022.  
NOTE Confidence: 0.823764786470588

01:37:05.430 --> 01:37:07.383 I think that the CHILD Study Center  
NOTE Confidence: 0.823764786470588

01:37:07.383 --> 01:37:09.662 has been a stable and secure place  
NOTE Confidence: 0.823764786470588

01:37:09.662 --> 01:37:11.732 for Tiana during during COVID and  
NOTE Confidence: 0.823764786470588

01:37:11.801 --> 01:37:13.881 I want to talk a little bit about  
NOTE Confidence: 0.823764786470588

01:37:13.881 --> 01:37:16.055 what I've done and we've what we've  
NOTE Confidence: 0.823764786470588

01:37:16.055 --> 01:37:19.238 done as a team to ensure safety in  
NOTE Confidence: 0.823764786470588

01:37:19.238 --> 01:37:21.673 place and relationships for Tiana.  
NOTE Confidence: 0.823764786470588

01:37:21.680 --> 01:37:24.170 I've developed a very good working  
NOTE Confidence: 0.823764786470588

01:37:24.170 --> 01:37:26.740 relationship with the DCF caseworkers,  
NOTE Confidence: 0.823764786470588

01:37:26.740 --> 01:37:29.475 her various foster parents and  
NOTE Confidence: 0.823764786470588

01:37:29.475 --> 01:37:30.569 her grandmother.  
NOTE Confidence: 0.823764786470588

01:37:30.570 --> 01:37:32.670 We have regular conversations and  
NOTE Confidence: 0.823764786470588

01:37:32.670 --> 01:37:35.227 meetings and we discuss and acknowledge  
NOTE Confidence: 0.823764786470588

01:37:35.227 --> 01:37:37.936 the impact that trauma has had on  
NOTE Confidence: 0.823764786470588

01:37:37.940 --> 01:37:40.308 Tiana's development, her relationships,  
NOTE Confidence: 0.823764786470588

01:37:40.308 --> 01:37:42.676 her emotions and behavior.

NOTE Confidence: 0.823764786470588  
01:37:42.680 --> 01:37:45.039 I think I've really helped the team  
NOTE Confidence: 0.823764786470588  
01:37:45.039 --> 01:37:46.873 to understand her difficult behavior  
NOTE Confidence: 0.823764786470588  
01:37:46.873 --> 01:37:49.505 and I'm hopeful I really do believe  
NOTE Confidence: 0.823764786470588  
01:37:49.505 --> 01:37:51.920 that their trauma lenses have grown.  
NOTE Confidence: 0.823764786470588  
01:37:51.920 --> 01:37:53.894 I think they big now appreciate  
NOTE Confidence: 0.823764786470588  
01:37:53.894 --> 01:37:55.893 the importance of being with her  
NOTE Confidence: 0.823764786470588  
01:37:55.893 --> 01:37:57.759 when she's upset when she's engaged  
NOTE Confidence: 0.823764786470588  
01:37:57.759 --> 01:37:59.640 in long and mournful crying.  
NOTE Confidence: 0.823764786470588  
01:37:59.640 --> 01:38:01.808 It's not a good idea to let her  
NOTE Confidence: 0.823764786470588  
01:38:01.808 --> 01:38:04.278 cry it out alone that she needs  
NOTE Confidence: 0.823764786470588  
01:38:04.278 --> 01:38:06.490 somebody trusted to be with her.  
NOTE Confidence: 0.823764786470588  
01:38:06.490 --> 01:38:08.760 They understand that attempting to  
NOTE Confidence: 0.823764786470588  
01:38:08.760 --> 01:38:11.030 make connections between her feelings  
NOTE Confidence: 0.823764786470588  
01:38:11.096 --> 01:38:13.328 and her experiences and her behaviors  
NOTE Confidence: 0.823764786470588  
01:38:13.328 --> 01:38:16.089 can be organizing for her and at the  
NOTE Confidence: 0.823764786470588

01:38:16.089 --> 01:38:17.901 same time I've really honored the  
NOTE Confidence: 0.876188816666667

01:38:17.910 --> 01:38:20.568 commitment that they have made tetiana.  
NOTE Confidence: 0.876188816666667

01:38:20.570 --> 01:38:23.850 It's really been quite remarkable.  
NOTE Confidence: 0.876188816666667

01:38:23.850 --> 01:38:26.148 One of the things that's foundational  
NOTE Confidence: 0.876188816666667

01:38:26.148 --> 01:38:28.768 in CPP is really developing an  
NOTE Confidence: 0.876188816666667

01:38:28.768 --> 01:38:30.280 empathic therapeutic relationship  
NOTE Confidence: 0.876188816666667

01:38:30.280 --> 01:38:33.660 with both the child and the parent,  
NOTE Confidence: 0.876188816666667

01:38:33.660 --> 01:38:35.725 and this has been really hard work.  
NOTE Confidence: 0.876188816666667

01:38:35.730 --> 01:38:37.180 Not so hard with the grandma,  
NOTE Confidence: 0.876188816666667

01:38:37.180 --> 01:38:39.615 because we've, I think Rick  
NOTE Confidence: 0.876188816666667

01:38:39.615 --> 01:38:41.978 developed a very nice relationship,  
NOTE Confidence: 0.876188816666667

01:38:41.978 --> 01:38:44.930 but with Tiana it was very hard.  
NOTE Confidence: 0.876188816666667

01:38:44.930 --> 01:38:48.060 I saw her virtually that was that I met her  
NOTE Confidence: 0.876188816666667

01:38:48.139 --> 01:38:51.403 virtually and saw her twice a week once  
NOTE Confidence: 0.876188816666667

01:38:51.403 --> 01:38:53.898 with grandmother and once individually.  
NOTE Confidence: 0.876188816666667

01:38:53.900 --> 01:38:55.200 It was three months before

NOTE Confidence: 0.876188816666667  
01:38:55.200 --> 01:38:56.840 she called me by my name.  
NOTE Confidence: 0.876188816666667  
01:38:56.840 --> 01:38:59.016 She would call me by the other clinicians  
NOTE Confidence: 0.876188816666667  
01:38:59.016 --> 01:39:01.763 name or she would stop and say what's your  
NOTE Confidence: 0.876188816666667  
01:39:01.763 --> 01:39:04.358 name again at the end of the session.  
NOTE Confidence: 0.876188816666667  
01:39:04.360 --> 01:39:05.228 One day she said,  
NOTE Confidence: 0.876188816666667  
01:39:05.228 --> 01:39:06.887 and I think some of you have  
NOTE Confidence: 0.876188816666667  
01:39:06.887 --> 01:39:07.799 heard this before.  
NOTE Confidence: 0.876188816666667  
01:39:07.800 --> 01:39:10.439 You are Dr Oldys mushy and sloppy.  
NOTE Confidence: 0.876188816666667  
01:39:10.440 --> 01:39:11.464 I don't like you.  
NOTE Confidence: 0.876188816666667  
01:39:11.464 --> 01:39:13.679 I don't ever want to see you again.  
NOTE Confidence: 0.876188816666667  
01:39:13.680 --> 01:39:15.558 I said to her I knew how much she  
NOTE Confidence: 0.876188816666667  
01:39:15.558 --> 01:39:17.784 missed Doctor Katie and she was sad  
NOTE Confidence: 0.876188816666667  
01:39:17.784 --> 01:39:20.316 and mad that doctor Katie left her.  
NOTE Confidence: 0.876188816666667  
01:39:20.320 --> 01:39:21.946 She responded to that by saying  
NOTE Confidence: 0.876188816666667  
01:39:21.946 --> 01:39:23.539 she really didn't feel that way,  
NOTE Confidence: 0.876188816666667

01:39:23.540 --> 01:39:25.116 which she often does.  
NOTE Confidence: 0.876188816666667

01:39:25.116 --> 01:39:28.202 Protesting a little bit too much when it  
NOTE Confidence: 0.876188816666667

01:39:28.202 --> 01:39:31.040 really does hit a chord a few sessions later,  
NOTE Confidence: 0.876188816666667

01:39:31.040 --> 01:39:32.870 she went into her closet where  
NOTE Confidence: 0.876188816666667

01:39:32.934 --> 01:39:34.050 she regularly went.  
NOTE Confidence: 0.876188816666667

01:39:34.050 --> 01:39:36.310 When playing or talking about  
NOTE Confidence: 0.876188816666667

01:39:36.310 --> 01:39:37.214 something difficult.  
NOTE Confidence: 0.876188816666667

01:39:37.220 --> 01:39:38.460 Can I tell you something?  
NOTE Confidence: 0.876188816666667

01:39:38.460 --> 01:39:40.655 I think you are a super  
NOTE Confidence: 0.876188816666667

01:39:40.655 --> 01:39:41.979 girl and you're beautiful.  
NOTE Confidence: 0.876188816666667

01:39:41.980 --> 01:39:44.851 I said I think you're getting to know me  
NOTE Confidence: 0.876188816666667

01:39:44.851 --> 01:39:47.410 better and share all kinds of feelings.  
NOTE Confidence: 0.876188816666667

01:39:47.410 --> 01:39:50.326 So I think her comments really illustrate  
NOTE Confidence: 0.876188816666667

01:39:50.326 --> 01:39:52.658 her struggle with relationships  
NOTE Confidence: 0.876188816666667

01:39:52.658 --> 01:39:54.990 and managing ambivalent feelings.  
NOTE Confidence: 0.876188816666667

01:39:54.990 --> 01:39:57.030 I think her consistent weekly



NOTE Confidence: 0.876188816666667  
01:39:57.030 --> 01:39:59.070 connection to grandmother and our  
NOTE Confidence: 0.876188816666667  
01:39:59.141 --> 01:40:01.553 capacity to be reflective about her  
NOTE Confidence: 0.876188816666667  
01:40:01.553 --> 01:40:04.005 feelings and consistent in the limits  
NOTE Confidence: 0.876188816666667  
01:40:04.005 --> 01:40:06.339 we set when she becomes dysregulated.  
NOTE Confidence: 0.876188816666667  
01:40:06.340 --> 01:40:08.236 And she believed me.  
NOTE Confidence: 0.876188816666667  
01:40:08.236 --> 01:40:10.782 He becomes dysregulated were very  
NOTE Confidence: 0.876188816666667  
01:40:10.782 --> 01:40:13.587 organizing during the difficult times  
NOTE Confidence: 0.876188816666667  
01:40:13.587 --> 01:40:16.510 of COVID with great joy in person.  
NOTE Confidence: 0.876188816666667  
01:40:16.510 --> 01:40:19.158 Sessions began in May of 2021,  
NOTE Confidence: 0.876188816666667  
01:40:19.158 --> 01:40:22.742 and what I've seen is a growing capacity  
NOTE Confidence: 0.876188816666667  
01:40:22.742 --> 01:40:26.580 in Tiana to grow to play imaginatively.  
NOTE Confidence: 0.876188816666667  
01:40:26.580 --> 01:40:28.578 Play is very much an important  
NOTE Confidence: 0.876188816666667  
01:40:28.578 --> 01:40:30.420 component of child parent psychotherapy  
NOTE Confidence: 0.876188816666667  
01:40:30.420 --> 01:40:32.204 because it's through imaginative  
NOTE Confidence: 0.876188816666667  
01:40:32.204 --> 01:40:34.856 play that children learn how they  
NOTE Confidence: 0.876188816666667

01:40:34.856 --> 01:40:36.998 feel and make meaning of experiences.  
NOTE Confidence: 0.876188816666667

01:40:37.000 --> 01:40:38.694 And I'm just going to show you.  
NOTE Confidence: 0.876188816666667

01:40:38.700 --> 01:40:39.828 Some props,  
NOTE Confidence: 0.876188816666667

01:40:39.828 --> 01:40:43.212 these are her favorite babies and  
NOTE Confidence: 0.876188816666667

01:40:43.212 --> 01:40:46.390 dollies that she spends a lot of time.  
NOTE Confidence: 0.876188816666667

01:40:46.390 --> 01:40:48.070 Plain family kit.  
NOTE Confidence: 0.876188816666667

01:40:48.070 --> 01:40:50.260 Being a loving and caring mother  
NOTE Confidence: 0.876188816666667

01:40:50.260 --> 01:40:52.417 which makes me think there have  
NOTE Confidence: 0.876188816666667

01:40:52.417 --> 01:40:54.451 been times when she has received  
NOTE Confidence: 0.876188816666667

01:40:54.520 --> 01:40:56.386 that kind of care grandmother who  
NOTE Confidence: 0.876188816666667

01:40:56.386 --> 01:40:58.276 initially with the other clinician  
NOTE Confidence: 0.876188816666667

01:40:58.276 --> 01:41:00.059 didn't sit on the floor,  
NOTE Confidence: 0.876188816666667

01:41:00.060 --> 01:41:02.552 sat on a chair and watched Tiana  
NOTE Confidence: 0.876188816666667

01:41:02.552 --> 01:41:05.279 play is down on the floor engaged  
NOTE Confidence: 0.876188816666667

01:41:05.279 --> 01:41:08.130 in the play and following her lead.  
NOTE Confidence: 0.876188816666667

01:41:08.130 --> 01:41:10.500 The babies need feeding and bathing.

NOTE Confidence: 0.876188816666667  
01:41:10.500 --> 01:41:11.720 They go to the park.  
NOTE Confidence: 0.876188816666667  
01:41:11.720 --> 01:41:13.160 They get ready for school.  
NOTE Confidence: 0.876188816666667  
01:41:13.160 --> 01:41:16.000 They do a lot of eating and going to bed.  
NOTE Confidence: 0.876188816666667  
01:41:16.000 --> 01:41:17.812 Her role shifts from being the  
NOTE Confidence: 0.876188816666667  
01:41:17.812 --> 01:41:19.879 baby to being a little girl,  
NOTE Confidence: 0.876188816666667  
01:41:19.880 --> 01:41:23.258 teenager an aunt and a mother.  
NOTE Confidence: 0.876188816666667  
01:41:23.260 --> 01:41:25.510 The play has developed to  
NOTE Confidence: 0.934267211666666  
01:41:25.510 --> 01:41:27.652 be more explicit about her fears and  
NOTE Confidence: 0.934267211666666  
01:41:27.652 --> 01:41:30.160 traumatic things that have happened to her.  
NOTE Confidence: 0.934267211666666  
01:41:30.160 --> 01:41:32.180 She worries about getting shot or  
NOTE Confidence: 0.934267211666666  
01:41:32.180 --> 01:41:34.120 somebody coming to take her away.  
NOTE Confidence: 0.934267211666666  
01:41:34.120 --> 01:41:37.416 If she hears a loud noise during session,  
NOTE Confidence: 0.934267211666666  
01:41:37.420 --> 01:41:39.076 she played about a baby who was.  
NOTE Confidence: 0.934267211666666  
01:41:39.080 --> 01:41:40.490 Left on the sidewalk by  
NOTE Confidence: 0.934267211666666  
01:41:40.490 --> 01:41:41.900 the mother and a family,  
NOTE Confidence: 0.934267211666666

01:41:41.900 --> 01:41:44.678 finding her and taking her in.  
NOTE Confidence: 0.934267211666666

01:41:44.680 --> 01:41:48.060 Recently she played a mother of these  
NOTE Confidence: 0.934267211666666

01:41:48.060 --> 01:41:50.638 babies who was going away to get  
NOTE Confidence: 0.934267211666666

01:41:50.638 --> 01:41:52.858 married and Auntie was babysitting and  
NOTE Confidence: 0.934267211666666

01:41:52.858 --> 01:41:56.170 Auntie said I hope he does not hit you.  
NOTE Confidence: 0.934267211666666

01:41:56.170 --> 01:41:57.480 The baby gets in trouble.  
NOTE Confidence: 0.934267211666666

01:41:57.480 --> 01:42:00.098 This one gets in trouble for not  
NOTE Confidence: 0.934267211666666

01:42:00.098 --> 01:42:02.114 following the rules and has and  
NOTE Confidence: 0.934267211666666

01:42:02.114 --> 01:42:04.390 has to go to bed for being bad.  
NOTE Confidence: 0.934267211666666

01:42:04.390 --> 01:42:06.294 Babies are hiding in the basement because  
NOTE Confidence: 0.934267211666666

01:42:06.294 --> 01:42:08.526 a man is coming to get them grandmother  
NOTE Confidence: 0.934267211666666

01:42:08.526 --> 01:42:10.650 and I stay with her in this play,  
NOTE Confidence: 0.934267211666666

01:42:10.650 --> 01:42:13.401 helping her to expand and feel safe  
NOTE Confidence: 0.934267211666666

01:42:13.401 --> 01:42:16.440 enough to examine her underlying feelings.  
NOTE Confidence: 0.934267211666666

01:42:16.440 --> 01:42:17.212 And finally,  
NOTE Confidence: 0.934267211666666

01:42:17.212 --> 01:42:19.914 I think that we've also helped her

NOTE Confidence: 0.934267211666666  
01:42:19.914 --> 01:42:22.350 find ways of coping or discover  
NOTE Confidence: 0.934267211666666  
01:42:22.350 --> 01:42:24.320 things that help her cope.  
NOTE Confidence: 0.934267211666666  
01:42:24.320 --> 01:42:27.224 One of the things that she's been doing  
NOTE Confidence: 0.934267211666666  
01:42:27.224 --> 01:42:29.189 doing recently is taking responsibility  
NOTE Confidence: 0.934267211666666  
01:42:29.189 --> 01:42:32.277 for knowing how much time is left in  
NOTE Confidence: 0.934267211666666  
01:42:32.277 --> 01:42:34.589 her session and plans for it so that  
NOTE Confidence: 0.934267211666666  
01:42:34.589 --> 01:42:37.680 she can leave in a more regulated way.  
NOTE Confidence: 0.934267211666666  
01:42:37.680 --> 01:42:39.595 Attending church has been very  
NOTE Confidence: 0.934267211666666  
01:42:39.595 --> 01:42:42.004 organizing and I would say her  
NOTE Confidence: 0.934267211666666  
01:42:42.004 --> 01:42:44.119 grandmother is very religious and  
NOTE Confidence: 0.934267211666666  
01:42:44.119 --> 01:42:46.401 her other foster families have  
NOTE Confidence: 0.934267211666666  
01:42:46.401 --> 01:42:48.976 participated in their church communities.  
NOTE Confidence: 0.934267211666666  
01:42:48.980 --> 01:42:51.703 Singing and dancing are very special talents  
NOTE Confidence: 0.934267211666666  
01:42:51.703 --> 01:42:54.748 that I'm II try to nurture in session.  
NOTE Confidence: 0.934267211666666  
01:42:54.750 --> 01:42:56.472 And I hope will be nurtured  
NOTE Confidence: 0.934267211666666

01:42:56.472 --> 01:42:57.620 outside of this session.  
NOTE Confidence: 0.934267211666666

01:42:57.620 --> 01:42:59.935 She'll sing original songs during  
NOTE Confidence: 0.934267211666666

01:42:59.935 --> 01:43:02.794 sessions that have things on her mind.  
NOTE Confidence: 0.934267211666666

01:43:02.794 --> 01:43:04.990 I've learned that singing calms her,  
NOTE Confidence: 0.934267211666666

01:43:04.990 --> 01:43:06.630 and when I see her kind of revving  
NOTE Confidence: 0.934267211666666

01:43:06.630 --> 01:43:08.572 up at the end of the session to  
NOTE Confidence: 0.934267211666666

01:43:08.572 --> 01:43:09.870 maybe have a difficult time,  
NOTE Confidence: 0.934267211666666

01:43:09.870 --> 01:43:12.606 I suggest that she sings a song and she  
NOTE Confidence: 0.934267211666666

01:43:12.606 --> 01:43:15.265 will often sing a song to grandmother.  
NOTE Confidence: 0.934267211666666

01:43:15.270 --> 01:43:17.430 And here's an example of one  
NOTE Confidence: 0.934267211666666

01:43:17.430 --> 01:43:19.530 we don't have a family.  
NOTE Confidence: 0.934267211666666

01:43:19.530 --> 01:43:21.366 My family is in my heart.  
NOTE Confidence: 0.934267211666666

01:43:21.370 --> 01:43:23.351 I miss you every morning when you  
NOTE Confidence: 0.934267211666666

01:43:23.351 --> 01:43:25.319 take care of me and my sister.  
NOTE Confidence: 0.934267211666666

01:43:25.320 --> 01:43:27.714 In your heart is a big family.  
NOTE Confidence: 0.934267211666666

01:43:27.720 --> 01:43:28.410 I love you.

NOTE Confidence: 0.934267211666666

01:43:28.410 --> 01:43:30.388 I am very happy to be with you

NOTE Confidence: 0.934267211666666

01:43:30.388 --> 01:43:32.206 'cause you are so special special

NOTE Confidence: 0.934267211666666

01:43:32.206 --> 01:43:34.328 and you were like a dream to me.

NOTE Confidence: 0.934267211666666

01:43:34.330 --> 01:43:36.874 A very special dream and you are special

NOTE Confidence: 0.934267211666666

01:43:36.874 --> 01:43:39.659 and a grandma that is special to me.

NOTE Confidence: 0.934267211666666

01:43:39.660 --> 01:43:41.376 Certainly there is more work to

NOTE Confidence: 0.934267211666666

01:43:41.376 --> 01:43:43.540 be done but I remain hopeful.

NOTE Confidence: 0.934267211666666

01:43:43.540 --> 01:43:46.140 I want to thank you all and thank

NOTE Confidence: 0.934267211666666

01:43:46.140 --> 01:43:48.184 you especially for all of the

NOTE Confidence: 0.934267211666666

01:43:48.184 --> 01:43:49.839 continued support that you give

NOTE Confidence: 0.934267211666666

01:43:49.839 --> 01:43:51.667 to us and and or center.

NOTE Confidence: 0.94844066

01:43:52.660 --> 01:43:55.460 Thank you so much, Nancy.

NOTE Confidence: 0.94844066

01:43:55.460 --> 01:43:57.746 So I just want to look at the clock

NOTE Confidence: 0.94844066

01:43:57.746 --> 01:44:00.219 'cause I want to give everyone a chance

NOTE Confidence: 0.94844066

01:44:00.219 --> 01:44:02.120 for some questions and discussion.

NOTE Confidence: 0.94844066

01:44:02.120 --> 01:44:04.646 We have a a built-in break.  
NOTE Confidence: 0.94844066

01:44:04.650 --> 01:44:06.826 I think we can take a few minutes  
NOTE Confidence: 0.94844066

01:44:06.826 --> 01:44:08.495 for questions and then we'll come  
NOTE Confidence: 0.94844066

01:44:08.495 --> 01:44:10.897 back and take a little bit of time  
NOTE Confidence: 0.94844066

01:44:10.897 --> 01:44:12.757 from our concluding question session.  
NOTE Confidence: 0.94844066

01:44:12.760 --> 01:44:14.926 So are there any questions for  
NOTE Confidence: 0.94844066

01:44:14.926 --> 01:44:17.780 our our clinical presenters?  
NOTE Confidence: 0.94844066

01:44:17.780 --> 01:44:19.957 As a group, and I hope you've  
NOTE Confidence: 0.94844066

01:44:19.957 --> 01:44:21.959 given you a sense of the.  
NOTE Confidence: 0.94844066

01:44:21.960 --> 01:44:24.570 I'm just a bit of a sense of the range  
NOTE Confidence: 0.94844066

01:44:24.641 --> 01:44:27.385 of clinical work going on in the center.  
NOTE Confidence: 0.94844066

01:44:27.390 --> 01:44:28.940 Will open up for questions.  
NOTE Confidence: 0.78415773

01:44:37.640 --> 01:44:39.358 I think a car yeah.  
NOTE Confidence: 0.86364125

01:44:41.570 --> 01:44:42.120 Go ahead.  
NOTE Confidence: 0.948052156

01:44:44.050 --> 01:44:46.010 Can you hear me? Yes  
NOTE Confidence: 0.7617947875

01:44:46.020 --> 01:44:47.660 Carol we can. OK



NOTE Confidence: 0.956783628  
01:44:47.670 --> 01:44:51.490 so I wanted to ask how old do  
NOTE Confidence: 0.956783628  
01:44:51.490 --> 01:44:52.840 when you presented these cases?  
NOTE Confidence: 0.956783628  
01:44:52.840 --> 01:44:54.960 How old were the children on  
NOTE Confidence: 0.956783628  
01:44:54.960 --> 01:44:56.308 the spectrum? You know on  
NOTE Confidence: 0.624688463333333  
01:44:56.320 --> 01:44:58.850 the age group with developmental.  
NOTE Confidence: 0.624688463333333  
01:44:58.850 --> 01:45:03.508 Are there age limits or this specific?  
NOTE Confidence: 0.624688463333333  
01:45:03.510 --> 01:45:06.940 Ways you work with different ages.  
NOTE Confidence: 0.624688463333333  
01:45:06.940 --> 01:45:09.712 And do the children know that  
NOTE Confidence: 0.624688463333333  
01:45:09.712 --> 01:45:12.330 is a time limit? Because  
NOTE Confidence: 0.79196875  
01:45:12.340 --> 01:45:14.248 these children are the first people  
NOTE Confidence: 0.9161957025  
01:45:14.260 --> 01:45:15.990 that they could ever trust,  
NOTE Confidence: 0.931741062  
01:45:16.640 --> 01:45:18.300 and do they know how?  
NOTE Confidence: 0.931741062  
01:45:18.300 --> 01:45:20.520 If it's going to be 6-6?  
NOTE Confidence: 0.931741062  
01:45:20.520 --> 01:45:22.351 Or how do you frame that for  
NOTE Confidence: 0.931741062  
01:45:22.351 --> 01:45:24.106 them so they understand that?  
NOTE Confidence: 0.8284260125

01:45:26.170 --> 01:45:27.218 So who would like  
NOTE Confidence: 0.953546232

01:45:27.230 --> 01:45:28.563 to take that? I mean, Tara,  
NOTE Confidence: 0.953546232

01:45:28.563 --> 01:45:30.201 do you want to address the  
NOTE Confidence: 0.953546232

01:45:30.201 --> 01:45:31.839 age range that we serve and?  
NOTE Confidence: 0.8296393

01:45:32.770 --> 01:45:36.723 Store in our outpatient in our youth  
NOTE Confidence: 0.8296393

01:45:36.723 --> 01:45:40.326 clinical services we serve children from  
NOTE Confidence: 0.8296393

01:45:40.326 --> 01:45:44.452 birth through their 19th birthday, so that  
NOTE Confidence: 0.8296393

01:45:44.452 --> 01:45:46.648 that's the range within those services.  
NOTE Confidence: 0.8296393

01:45:46.650 --> 01:45:48.480 And so we have a team that Nancy is on  
NOTE Confidence: 0.8296393

01:45:48.532 --> 01:45:50.219 that works with some of the younger  
NOTE Confidence: 0.8296393

01:45:50.219 --> 01:45:52.150 group and then from four and a half up.  
NOTE Confidence: 0.8296393

01:45:52.150 --> 01:45:55.405 We have our other team that the time  
NOTE Confidence: 0.8296393

01:45:55.405 --> 01:45:59.422 really depends on what what's going on and  
NOTE Confidence: 0.8296393

01:45:59.422 --> 01:46:02.820 and what the particular intervention is.  
NOTE Confidence: 0.8296393

01:46:02.820 --> 01:46:05.536 You know Carrie was talking about CSI,  
NOTE Confidence: 0.8296393

01:46:05.540 --> 01:46:08.298 which has a certain number of sessions,

NOTE Confidence: 0.8296393

01:46:08.300 --> 01:46:09.764 so that's different than some of

NOTE Confidence: 0.8296393

01:46:09.764 --> 01:46:11.359 the other work that we might do.

NOTE Confidence: 0.8296393

01:46:11.360 --> 01:46:13.190 CPP might be the opposite and

NOTE Confidence: 0.8296393

01:46:13.190 --> 01:46:14.760 take longer through the play.

NOTE Confidence: 0.8296393

01:46:14.760 --> 01:46:16.770 It's really about what is

NOTE Confidence: 0.8296393

01:46:16.770 --> 01:46:18.695 clinically indicated in that time,

NOTE Confidence: 0.8296393

01:46:18.700 --> 01:46:21.950 and as we go along in treatment, we are.

NOTE Confidence: 0.8296393

01:46:21.950 --> 01:46:24.200 We talked with the children and their

NOTE Confidence: 0.8296393

01:46:24.200 --> 01:46:26.720 caregivers about where we're at every about,

NOTE Confidence: 0.8296393

01:46:26.720 --> 01:46:29.373 every three months when it's the longer

NOTE Confidence: 0.8296393

01:46:29.373 --> 01:46:31.709 term treatment about where we're at and

NOTE Confidence: 0.8296393

01:46:31.710 --> 01:46:33.555 where we think we need to go in about.

NOTE Confidence: 0.8296393

01:46:33.560 --> 01:46:34.946 How long we think it might be,

NOTE Confidence: 0.8296393

01:46:34.950 --> 01:46:36.390 and so we're constantly having

NOTE Confidence: 0.8296393

01:46:36.390 --> 01:46:37.830 that conversation with them and

NOTE Confidence: 0.8296393

01:46:37.885 --> 01:46:39.189 revisiting what progress is.  
NOTE Confidence: 0.8296393

01:46:39.190 --> 01:46:39.340 Well,  
NOTE Confidence: 0.821675966

01:46:39.350 --> 01:46:40.250 if you have a very  
NOTE Confidence: 0.8828423

01:46:40.260 --> 01:46:42.250 young child, they don't  
NOTE Confidence: 0.8828423

01:46:42.250 --> 01:46:43.476 understand that I don't.  
NOTE Confidence: 0.8828423

01:46:43.476 --> 01:46:45.317 I don't know how you would frame it  
NOTE Confidence: 0.8828423

01:46:45.317 --> 01:46:47.536 so they would because when I worked  
NOTE Confidence: 0.9400965775

01:46:47.550 --> 01:46:52.980 in the clinic they children drew a  
NOTE Confidence: 0.9400965775

01:46:52.980 --> 01:46:55.890 picture of their is sitting in a car  
NOTE Confidence: 0.826478314

01:46:55.900 --> 01:46:58.301 going off the click, the cars going  
NOTE Confidence: 0.826478314

01:46:58.301 --> 01:47:00.441 off the Cliff and it was the end of  
NOTE Confidence: 0.826478314

01:47:00.441 --> 01:47:01.975 the treatment and I just wonder,  
NOTE Confidence: 0.826478314

01:47:01.975 --> 01:47:04.730 you know, with the short term.  
NOTE Confidence: 0.826478314

01:47:04.730 --> 01:47:06.680 Treatment how that?  
NOTE Confidence: 0.826478314

01:47:06.680 --> 01:47:10.320 Can be explained to them or how you would.  
NOTE Confidence: 0.628341005

01:47:11.590 --> 01:47:12.440 Handles that.

NOTE Confidence: 0.85301983

01:47:13.980 --> 01:47:15.400 Well, Nancy, since

NOTE Confidence: 0.788352516666667

01:47:15.410 --> 01:47:17.482 you are one of our younger child

NOTE Confidence: 0.788352516666667

01:47:17.482 --> 01:47:19.220 experts, I wondered if you could

NOTE Confidence: 0.788352516666667

01:47:19.220 --> 01:47:20.960 share your thoughts on this one.

NOTE Confidence: 0.757261496

01:47:22.220 --> 01:47:25.510 I'm sure happy to come.

NOTE Confidence: 0.757261496

01:47:25.510 --> 01:47:29.332 I think that certainly the the UM,

NOTE Confidence: 0.757261496

01:47:29.332 --> 01:47:32.022 it's important to be explicit

NOTE Confidence: 0.757261496

01:47:32.022 --> 01:47:35.068 upfront with the family about the

NOTE Confidence: 0.757261496

01:47:35.068 --> 01:47:38.022 nature of the treatment and what

NOTE Confidence: 0.757261496

01:47:38.022 --> 01:47:40.680 we're going to be working on.

NOTE Confidence: 0.757261496

01:47:40.680 --> 01:47:43.296 And in child parent psychotherapy we

NOTE Confidence: 0.757261496

01:47:43.296 --> 01:47:47.131 do a lot of gathering information from

NOTE Confidence: 0.757261496

01:47:47.131 --> 01:47:51.127 the parents over several several weeks,

NOTE Confidence: 0.757261496

01:47:51.130 --> 01:47:52.198 so that together.

NOTE Confidence: 0.757261496

01:47:52.198 --> 01:47:54.690 But the parent we can form a

NOTE Confidence: 0.757261496

01:47:54.775 --> 01:47:57.490 treatment triangle that talks about  
NOTE Confidence: 0.757261496

01:47:57.490 --> 01:47:59.320 what has happened to the child.  
NOTE Confidence: 0.757261496

01:47:59.320 --> 01:48:01.546 You know, if you think about Tiana  
NOTE Confidence: 0.757261496

01:48:01.546 --> 01:48:04.058 you you were taken from your mommy,  
NOTE Confidence: 0.757261496

01:48:04.060 --> 01:48:06.516 you've lived in a lot of foster homes.  
NOTE Confidence: 0.757261496

01:48:06.520 --> 01:48:10.160 How the child has responded to that.  
NOTE Confidence: 0.757261496

01:48:10.160 --> 01:48:13.340 You have a lot of temper tantrums.  
NOTE Confidence: 0.757261496

01:48:13.340 --> 01:48:15.660 You really lose control.  
NOTE Confidence: 0.757261496

01:48:15.660 --> 01:48:18.020 You have a hard time being a good  
NOTE Confidence: 0.757261496

01:48:18.020 --> 01:48:20.115 boss for yourself and this is  
NOTE Confidence: 0.757261496

01:48:20.115 --> 01:48:22.710 a place where we can help you.  
NOTE Confidence: 0.757261496

01:48:22.710 --> 01:48:25.356 Understand what has happened to you  
NOTE Confidence: 0.757261496

01:48:25.356 --> 01:48:28.330 and you can feel safe and whoever  
NOTE Confidence: 0.757261496

01:48:28.330 --> 01:48:31.440 is the parent in the in the CPP  
NOTE Confidence: 0.757261496

01:48:31.440 --> 01:48:34.289 with them you and Mommy or Ewing  
NOTE Confidence: 0.757261496

01:48:34.289 --> 01:48:36.300 and Grandma are going to work are

NOTE Confidence: 0.757261496

01:48:36.300 --> 01:48:38.070 going to work on this together and

NOTE Confidence: 0.757261496

01:48:38.070 --> 01:48:40.150 this is a place where you can feel

NOTE Confidence: 0.757261496

01:48:40.212 --> 01:48:42.109 safe and you can learn about some

NOTE Confidence: 0.757261496

01:48:42.109 --> 01:48:44.394 of the feelings you have connected

NOTE Confidence: 0.757261496

01:48:44.394 --> 01:48:46.890 to being taken from your mommy.

NOTE Confidence: 0.757261496

01:48:46.890 --> 01:48:48.962 And then that's a little kind of

NOTE Confidence: 0.757261496

01:48:48.962 --> 01:48:52.818 simple and concrete, but we also use.

NOTE Confidence: 0.757261496

01:48:52.820 --> 01:48:57.077 Animals or people to to show what you know,

NOTE Confidence: 0.757261496

01:48:57.080 --> 01:48:59.544 show what the child's experience has been.

NOTE Confidence: 0.757261496

01:48:59.550 --> 01:49:01.258 We try because of the young age.

NOTE Confidence: 0.757261496

01:49:01.260 --> 01:49:04.176 We keep it simple and maybe don't you know,

NOTE Confidence: 0.757261496

01:49:04.180 --> 01:49:05.326 certainly with Tiana,

NOTE Confidence: 0.757261496

01:49:05.326 --> 01:49:07.236 we wouldn't address all of

NOTE Confidence: 0.757261496

01:49:07.236 --> 01:49:08.540 her experiences at once.

NOTE Confidence: 0.757261496

01:49:08.540 --> 01:49:11.048 You know we didn't.

NOTE Confidence: 0.757261496

01:49:11.050 --> 01:49:13.936 We didn't talk about them initially  
NOTE Confidence: 0.757261496

01:49:13.936 --> 01:49:16.115 when she was for all of them.  
NOTE Confidence: 0.757261496

01:49:16.115 --> 01:49:16.705 I mean,  
NOTE Confidence: 0.757261496

01:49:16.705 --> 01:49:18.770 the big the big issue for her  
NOTE Confidence: 0.757261496

01:49:18.848 --> 01:49:21.050 was the removal from her mother.  
NOTE Confidence: 0.900182771538461

01:49:23.900 --> 01:49:26.508 So we have a. We have a couple  
NOTE Confidence: 0.900182771538461

01:49:26.508 --> 01:49:28.148 of questions in the chat,  
NOTE Confidence: 0.900182771538461

01:49:28.150 --> 01:49:31.820 so Jennifer is asking how to CPP  
NOTE Confidence: 0.900182771538461

01:49:31.820 --> 01:49:34.548 compared to using TF CBT with young  
NOTE Confidence: 0.900182771538461

01:49:34.548 --> 01:49:36.565 children who experienced trauma Carrie,  
NOTE Confidence: 0.900182771538461

01:49:36.565 --> 01:49:38.095 would you like to or Nancy  
NOTE Confidence: 0.900182771538461

01:49:38.095 --> 01:49:40.850 either won't take that. CPP  
NOTE Confidence: 0.686773939

01:49:40.860 --> 01:49:42.252 is and carry out.  
NOTE Confidence: 0.686773939

01:49:42.252 --> 01:49:44.340 I'll let you you go after,  
NOTE Confidence: 0.686773939

01:49:44.340 --> 01:49:48.318 but CPP is an intervention that's  
NOTE Confidence: 0.686773939

01:49:48.318 --> 01:49:51.670 meant for children zero to 6.



NOTE Confidence: 0.686773939

01:49:51.670 --> 01:49:57.130 And TFCBT, I'll let you take over. Carrie.

NOTE Confidence: 0.9234561

01:50:01.890 --> 01:50:05.130 So in TF CBT is a model that can be

NOTE Confidence: 0.9234561

01:50:05.130 --> 01:50:07.840 implemented with preschoolers and older,

NOTE Confidence: 0.8399343125

01:50:08.370 --> 01:50:10.106 although a lot of folks really focus

NOTE Confidence: 0.8399343125

01:50:10.106 --> 01:50:12.228 on sort of maybe 6 year olds and up.

NOTE Confidence: 0.8399343125

01:50:12.230 --> 01:50:13.707 But it can be done with preschoolers

NOTE Confidence: 0.8399343125

01:50:13.707 --> 01:50:17.726 and older and this is a model that

NOTE Confidence: 0.8399343125

01:50:17.730 --> 01:50:20.495 it's a very phase based approach and

NOTE Confidence: 0.8399343125

01:50:20.495 --> 01:50:22.226 components based approach and really

NOTE Confidence: 0.8399343125

01:50:22.226 --> 01:50:24.410 focuses on and this kind of goes to

NOTE Confidence: 0.8399343125

01:50:24.477 --> 01:50:27.976 your question Carol about how do you

NOTE Confidence: 0.8399343125

01:50:27.976 --> 01:50:30.182 actually work with the younger kids?

NOTE Confidence: 0.8399343125

01:50:30.182 --> 01:50:31.554 This is really about.

NOTE Confidence: 0.8399343125

01:50:31.560 --> 01:50:33.888 The opportunity to predict if the

NOTE Confidence: 0.8399343125

01:50:33.888 --> 01:50:35.423 essence of the traumatic experience

NOTE Confidence: 0.8399343125

01:50:35.423 --> 01:50:37.217 is all about loss of control.  
NOTE Confidence: 0.8399343125

01:50:37.220 --> 01:50:38.845 I couldn't control what's happening  
NOTE Confidence: 0.8399343125

01:50:38.845 --> 01:50:40.540 to me or to a loved one.  
NOTE Confidence: 0.8399343125

01:50:40.540 --> 01:50:42.088 In the case of domestic violence  
NOTE Confidence: 0.8399343125

01:50:42.088 --> 01:50:44.097 that we want our treatment to be  
NOTE Confidence: 0.8399343125

01:50:44.097 --> 01:50:45.927 all about reversing loss of control,  
NOTE Confidence: 0.8399343125

01:50:45.930 --> 01:50:47.830 of putting words to symptoms,  
NOTE Confidence: 0.8399343125

01:50:47.830 --> 01:50:49.090 identifying coping strategies to  
NOTE Confidence: 0.8399343125

01:50:49.090 --> 01:50:50.980 bring those symptoms down and also  
NOTE Confidence: 0.8399343125

01:50:51.029 --> 01:50:53.150 being able to predict treatment.  
NOTE Confidence: 0.8399343125

01:50:53.150 --> 01:50:55.470 So here's what we're going to do today.  
NOTE Confidence: 0.8399343125

01:50:55.470 --> 01:50:56.565 So you're right,  
NOTE Confidence: 0.8399343125

01:50:56.565 --> 01:50:57.660 it depending developmentally.  
NOTE Confidence: 0.8399343125

01:50:57.660 --> 01:50:58.820 Whether or predicting what we're  
NOTE Confidence: 0.8399343125

01:50:58.820 --> 01:50:59.748 going to do today,  
NOTE Confidence: 0.8399343125

01:50:59.750 --> 01:51:01.790 whether it be predicting the

NOTE Confidence: 0.8399343125

01:51:01.790 --> 01:51:03.830 overall trajectory of the model.

NOTE Confidence: 0.8399343125

01:51:03.830 --> 01:51:05.630 But the the treatments really folks?

NOTE Confidence: 0.8399343125

01:51:05.630 --> 01:51:07.159 TF CBT in particular focuses

NOTE Confidence: 0.8399343125

01:51:07.159 --> 01:51:08.857 on as well as safety aside,

NOTE Confidence: 0.8399343125

01:51:08.860 --> 01:51:10.640 bringing symptoms down and regaining

NOTE Confidence: 0.8399343125

01:51:10.640 --> 01:51:12.762 sense of control of symptoms first

NOTE Confidence: 0.8399343125

01:51:12.762 --> 01:51:14.472 and later getting to a trauma

NOTE Confidence: 0.8399343125

01:51:14.472 --> 01:51:16.430 narrative in the context of TF CBT,

NOTE Confidence: 0.8399343125

01:51:16.430 --> 01:51:18.169 I don't know if that answers your question,

NOTE Confidence: 0.8399343125

01:51:18.170 --> 01:51:18.560 Jennifer.

NOTE Confidence: 0.896343755882353

01:51:18.920 --> 01:51:20.136 Thanks Carrie. So Tom,

NOTE Confidence: 0.896343755882353

01:51:20.136 --> 01:51:22.751 I see you have a couple of questions

NOTE Confidence: 0.896343755882353

01:51:22.751 --> 01:51:25.468 when I'm going to suggest that we gave

NOTE Confidence: 0.896343755882353

01:51:25.468 --> 01:51:28.070 everybody a chance to take a brief break,

NOTE Confidence: 0.896343755882353

01:51:28.070 --> 01:51:29.610 a 5 minute break stretch,

NOTE Confidence: 0.896343755882353

01:51:29.610 --> 01:51:31.418 grab a glass of water, coffee, whatever,  
NOTE Confidence: 0.896343755882353

01:51:31.418 --> 01:51:34.036 and then we'll come back and start  
NOTE Confidence: 0.896343755882353

01:51:34.036 --> 01:51:36.487 our education part and Tom I will.  
NOTE Confidence: 0.896343755882353

01:51:36.490 --> 01:51:39.178 I will respond to your questions in our  
NOTE Confidence: 0.896343755882353

01:51:39.180 --> 01:51:41.588 and our question and answer at the end.  
NOTE Confidence: 0.896343755882353

01:51:41.590 --> 01:51:43.444 But thank thanks for people for  
NOTE Confidence: 0.896343755882353

01:51:43.444 --> 01:51:45.180 putting the questions in the chat  
NOTE Confidence: 0.896343755882353

01:51:45.180 --> 01:51:48.672 so it is 452 if we could be back.  
NOTE Confidence: 0.896343755882353

01:51:48.680 --> 01:51:51.656 Just it. This sounds so concrete,  
NOTE Confidence: 0.896343755882353

01:51:51.660 --> 01:51:53.996 but if we can be back at three  
NOTE Confidence: 0.896343755882353

01:51:53.996 --> 01:51:55.801 minutes or four and we will,  
NOTE Confidence: 0.896343755882353

01:51:55.801 --> 01:51:57.236 we will get started again.  
NOTE Confidence: 0.896343755882353

01:51:57.240 --> 01:51:59.207 So we're just taking a brief pause.  
NOTE Confidence: 0.789204673846154

01:52:23.140 --> 01:52:25.318 And for the answers, the questions  
NOTE Confidence: 0.789204673846154

01:52:25.318 --> 01:52:27.910 in the chat that were about DBT,  
NOTE Confidence: 0.789204673846154

01:52:27.910 --> 01:52:30.706 both Tara and Carrie had provided

NOTE Confidence: 0.789204673846154  
01:52:30.706 --> 01:52:33.150 some information in the chats.  
NOTE Confidence: 0.789204673846154  
01:52:33.150 --> 01:52:35.998 So we now come into our education section.  
NOTE Confidence: 0.789204673846154  
01:52:36.000 --> 01:52:38.032 Or are we probably should call  
NOTE Confidence: 0.789204673846154  
01:52:38.032 --> 01:52:39.780 this more career development and  
NOTE Confidence: 0.789204673846154  
01:52:39.780 --> 01:52:42.516 I'm really excited for you to have  
NOTE Confidence: 0.789204673846154  
01:52:42.516 --> 01:52:44.832 a chance to hear these individual  
NOTE Confidence: 0.789204673846154  
01:52:44.832 --> 01:52:46.800 stories from former colleagues.  
NOTE Confidence: 0.789204673846154  
01:52:46.800 --> 01:52:49.032 Let me first turn through Doctor  
NOTE Confidence: 0.789204673846154  
01:52:49.032 --> 01:52:50.290 Emily Olson, Emily.  
NOTE Confidence: 0.55114216  
01:52:53.760 --> 01:52:58.140 Hello everyone. Uhm, good afternoon.  
NOTE Confidence: 0.90492017  
01:52:58.170 --> 01:53:00.773 My name is Emily Olson and I'm currently  
NOTE Confidence: 0.90492017  
01:53:00.773 --> 01:53:03.500 in my 6th and final year of training and  
NOTE Confidence: 0.90492017  
01:53:03.567 --> 01:53:06.003 the combined child and Adult Psychiatry  
NOTE Confidence: 0.90492017  
01:53:06.003 --> 01:53:08.278 residency and I'm delighted to have  
NOTE Confidence: 0.90492017  
01:53:08.278 --> 01:53:10.024 the opportunity today to talk with  
NOTE Confidence: 0.90492017

01:53:10.024 --> 01:53:12.625 you a little bit about my experience  
NOTE Confidence: 0.90492017

01:53:12.625 --> 01:53:15.710 here at the Yale Child Study Center.  
NOTE Confidence: 0.90492017

01:53:15.710 --> 01:53:17.614 So just a bit about my background  
NOTE Confidence: 0.90492017

01:53:17.614 --> 01:53:19.128 and what drew me to Yale.  
NOTE Confidence: 0.90492017

01:53:19.130 --> 01:53:20.140 I was raised in Brooklyn,  
NOTE Confidence: 0.90492017

01:53:20.140 --> 01:53:22.127 NY and then I went to a small  
NOTE Confidence: 0.90492017

01:53:22.127 --> 01:53:24.401 liberal arts school in Ohio before  
NOTE Confidence: 0.90492017

01:53:24.401 --> 01:53:26.540 attending the MD PhD program at  
NOTE Confidence: 0.90492017

01:53:26.540 --> 01:53:28.230 Washington University in Saint Louis.  
NOTE Confidence: 0.90492017

01:53:28.230 --> 01:53:30.802 During my PhD I developed an interest  
NOTE Confidence: 0.90492017

01:53:30.802 --> 01:53:32.658 in using translational genomic  
NOTE Confidence: 0.90492017

01:53:32.658 --> 01:53:34.514 approaches to better understand  
NOTE Confidence: 0.90492017

01:53:34.514 --> 01:53:36.838 and treat psychiatric conditions,  
NOTE Confidence: 0.90492017

01:53:36.840 --> 01:53:39.234 but it really wasn't until my medical  
NOTE Confidence: 0.90492017

01:53:39.234 --> 01:53:41.620 school clerkships when I was working with  
NOTE Confidence: 0.90492017

01:53:41.620 --> 01:53:43.570 children and families that my clinical

NOTE Confidence: 0.90492017

01:53:43.628 --> 01:53:45.908 passion for child psychiatry solidified.

NOTE Confidence: 0.90492017

01:53:45.910 --> 01:53:47.686 So when I applied to residency,

NOTE Confidence: 0.90492017

01:53:47.690 --> 01:53:49.818 I knew that I ideally wanted to

NOTE Confidence: 0.90492017

01:53:49.818 --> 01:53:52.241 attend a program where I could start

NOTE Confidence: 0.90492017

01:53:52.241 --> 01:53:54.046 working in child psychiatry early

NOTE Confidence: 0.90492017

01:53:54.046 --> 01:53:56.439 and also continue my genetics work.

NOTE Confidence: 0.90492017

01:53:56.440 --> 01:53:58.565 So I was especially delighted when

NOTE Confidence: 0.90492017

01:53:58.565 --> 01:54:00.440 I found this woman integrated

NOTE Confidence: 0.90492017

01:54:00.511 --> 01:54:02.016 residency program and this truly

NOTE Confidence: 0.90492017

01:54:02.016 --> 01:54:04.988 is a one inch of a kind program.

NOTE Confidence: 0.90492017

01:54:04.990 --> 01:54:06.915 And here I'm just showing you a

NOTE Confidence: 0.90492017

01:54:06.915 --> 01:54:08.538 general schematic of how I've spent

NOTE Confidence: 0.90492017

01:54:08.538 --> 01:54:10.274 my time over the last six years.

NOTE Confidence: 0.90492017

01:54:10.280 --> 01:54:12.324 But essentially this program

NOTE Confidence: 0.90492017

01:54:12.324 --> 01:54:13.857 combines three things.

NOTE Confidence: 0.90492017

01:54:13.860 --> 01:54:15.920 Residency training in general.  
NOTE Confidence: 0.90492017

01:54:15.920 --> 01:54:17.980 Adult Psychiatry subspecialty fellowship  
NOTE Confidence: 0.90492017

01:54:17.980 --> 01:54:20.912 training and child psychiatry as well as  
NOTE Confidence: 0.90492017

01:54:20.912 --> 01:54:23.500 rigorous research training throughout.  
NOTE Confidence: 0.90492017

01:54:23.500 --> 01:54:25.024 The entire six years.  
NOTE Confidence: 0.90492017

01:54:25.024 --> 01:54:26.929 So for someone like me,  
NOTE Confidence: 0.90492017

01:54:26.930 --> 01:54:28.874 who was the spy ring to be a physician,  
NOTE Confidence: 0.90492017

01:54:28.880 --> 01:54:30.696 scientist and child psychiatry,  
NOTE Confidence: 0.90492017

01:54:30.696 --> 01:54:33.420 this was really an ideal program.  
NOTE Confidence: 0.90492017

01:54:33.420 --> 01:54:36.024 The leadership of this program is also  
NOTE Confidence: 0.90492017

01:54:36.024 --> 01:54:37.724 incredibly supportive and I'm just  
NOTE Confidence: 0.90492017

01:54:37.724 --> 01:54:40.170 showing a few of the many key people here.  
NOTE Confidence: 0.8651303175

01:54:41.800 --> 01:54:42.688 So my first two  
NOTE Confidence: 0.917792070833333

01:54:42.700 --> 01:54:44.660 years, the majority of my time was  
NOTE Confidence: 0.917792070833333

01:54:44.660 --> 01:54:46.260 spent seeing patients in Pediatrics,  
NOTE Confidence: 0.917792070833333

01:54:46.260 --> 01:54:47.613 neurology, and psychiatry,



NOTE Confidence: 0.917792070833333  
01:54:47.613 --> 01:54:50.828 and during this time I honed my clinical  
NOTE Confidence: 0.917792070833333  
01:54:50.828 --> 01:54:52.588 skills and these early experiences  
NOTE Confidence: 0.917792070833333  
01:54:52.588 --> 01:54:55.439 also gave me a sense of some of the  
NOTE Confidence: 0.917792070833333  
01:54:55.439 --> 01:54:56.784 important unanswered questions in  
NOTE Confidence: 0.917792070833333  
01:54:56.784 --> 01:54:59.182 their field and during this time I  
NOTE Confidence: 0.917792070833333  
01:54:59.182 --> 01:55:00.922 became especially interested in two  
NOTE Confidence: 0.917792070833333  
01:55:00.922 --> 01:55:02.499 significantly under study conditions,  
NOTE Confidence: 0.917792070833333  
01:55:02.500 --> 01:55:04.580 TRICHOTILLOMANIA and excoriation disorder.  
NOTE Confidence: 0.917792070833333  
01:55:04.580 --> 01:55:06.660 Individuals afflicted with these  
NOTE Confidence: 0.917792070833333  
01:55:06.660 --> 01:55:08.890 conditions often spend hours a day  
NOTE Confidence: 0.917792070833333  
01:55:08.890 --> 01:55:10.930 pulling or picking at their hair skin,  
NOTE Confidence: 0.917792070833333  
01:55:10.930 --> 01:55:12.930 which causes significant distress  
NOTE Confidence: 0.917792070833333  
01:55:12.930 --> 01:55:13.930 and impairment.  
NOTE Confidence: 0.917792070833333  
01:55:13.930 --> 01:55:16.534 But there are no first line pharmacologic  
NOTE Confidence: 0.917792070833333  
01:55:16.534 --> 01:55:18.310 treatments for either condition,  
NOTE Confidence: 0.917792070833333

01:55:18.310 --> 01:55:19.670 which really highlights that we  
NOTE Confidence: 0.917792070833333

01:55:19.670 --> 01:55:21.496 need to have a better understanding  
NOTE Confidence: 0.917792070833333

01:55:21.496 --> 01:55:23.140 of the underlying biology.  
NOTE Confidence: 0.917792070833333

01:55:23.140 --> 01:55:25.244 But I was surprised to find that there  
NOTE Confidence: 0.917792070833333

01:55:25.244 --> 01:55:27.715 were no state of the art large scale  
NOTE Confidence: 0.917792070833333

01:55:27.715 --> 01:55:29.610 genomic studies for either condition.  
NOTE Confidence: 0.917792070833333

01:55:29.610 --> 01:55:30.936 So I went to my mentors,  
NOTE Confidence: 0.917792070833333

01:55:30.940 --> 01:55:33.016 Tom Fernandez and Michael Block with  
NOTE Confidence: 0.917792070833333

01:55:33.016 --> 01:55:35.559 this idea of conducting the first DNA  
NOTE Confidence: 0.917792070833333

01:55:35.559 --> 01:55:37.394 sequencing study in these conditions,  
NOTE Confidence: 0.917792070833333

01:55:37.400 --> 01:55:38.508 and with these conditions,  
NOTE Confidence: 0.917792070833333

01:55:38.508 --> 01:55:39.616 and with their guidance,  
NOTE Confidence: 0.917792070833333

01:55:39.620 --> 01:55:41.780 we developed the TAB study.  
NOTE Confidence: 0.917792070833333

01:55:41.780 --> 01:55:43.268 And here is a picture of  
NOTE Confidence: 0.917792070833333

01:55:43.268 --> 01:55:44.012 our recruitment table,  
NOTE Confidence: 0.917792070833333

01:55:44.020 --> 01:55:45.380 and this was at a meeting back in.

NOTE Confidence: 0.917792070833333  
01:55:45.380 --> 01:55:46.256 April 2018,  
NOTE Confidence: 0.917792070833333  
01:55:46.256 --> 01:55:48.446 for individuals who had these  
NOTE Confidence: 0.917792070833333  
01:55:48.446 --> 01:55:50.580 conditions in San Francisco,  
NOTE Confidence: 0.917792070833333  
01:55:50.580 --> 01:55:53.154 and you can see that we have all the  
NOTE Confidence: 0.917792070833333  
01:55:53.154 --> 01:55:55.535 supplies to collect saliva for DNA and  
NOTE Confidence: 0.917792070833333  
01:55:55.535 --> 01:55:57.720 to collect our clinical assessments.  
NOTE Confidence: 0.917792070833333  
01:55:57.720 --> 01:55:58.686 But when I took this picture,  
NOTE Confidence: 0.917792070833333  
01:55:58.690 --> 01:55:59.700 I was a little nervous.  
NOTE Confidence: 0.917792070833333  
01:55:59.700 --> 01:56:01.996 I honestly didn't know what to expect,  
NOTE Confidence: 0.917792070833333  
01:56:02.000 --> 01:56:03.520 but shortly after this photo,  
NOTE Confidence: 0.917792070833333  
01:56:03.520 --> 01:56:05.500 we enrolled our first research participant  
NOTE Confidence: 0.917792070833333  
01:56:05.500 --> 01:56:07.957 and over the three days of the meeting,  
NOTE Confidence: 0.917792070833333  
01:56:07.960 --> 01:56:10.912 we were able to enroll over 50 families  
NOTE Confidence: 0.917792070833333  
01:56:10.912 --> 01:56:14.140 and individuals who had these conditions.  
NOTE Confidence: 0.917792070833333  
01:56:14.140 --> 01:56:15.953 I was really moved by the support  
NOTE Confidence: 0.917792070833333

01:56:15.953 --> 01:56:17.393 for this research and hearing  
NOTE Confidence: 0.917792070833333

01:56:17.393 --> 01:56:18.918 their stories compelled me to  
NOTE Confidence: 0.917792070833333

01:56:18.918 --> 01:56:20.289 continue this line of work.  
NOTE Confidence: 0.90357894

01:56:22.590 --> 01:56:23.770 Over the next four years,  
NOTE Confidence: 0.90357894

01:56:23.770 --> 01:56:26.020 I expanded the TAB study and  
NOTE Confidence: 0.90357894

01:56:26.020 --> 01:56:28.250 also led other genomics projects.  
NOTE Confidence: 0.90357894

01:56:28.250 --> 01:56:30.581 I have now analyzed DNA sequencing data  
NOTE Confidence: 0.90357894

01:56:30.581 --> 01:56:32.709 from hundreds of individuals and families  
NOTE Confidence: 0.90357894

01:56:32.709 --> 01:56:35.201 to help to understand the genes and  
NOTE Confidence: 0.90357894

01:56:35.270 --> 01:56:37.586 pathways that lead to these conditions.  
NOTE Confidence: 0.90357894

01:56:37.590 --> 01:56:40.390 My hope is that this work will  
NOTE Confidence: 0.90357894

01:56:40.390 --> 01:56:42.270 identify new treatment targets.  
NOTE Confidence: 0.90357894

01:56:42.270 --> 01:56:43.926 But it's important to note that I have  
NOTE Confidence: 0.90357894

01:56:43.926 --> 01:56:45.980 only been able to do this because of the.  
NOTE Confidence: 0.90357894

01:56:45.980 --> 01:56:47.888 Because of my protective research time,  
NOTE Confidence: 0.90357894

01:56:47.890 --> 01:56:49.962 which was made possible by grants and

NOTE Confidence: 0.90357894

01:56:49.962 --> 01:56:52.217 donations to the Yale Child Study Center.

NOTE Confidence: 0.90357894

01:56:52.220 --> 01:56:54.314 I've also continued to develop my

NOTE Confidence: 0.90357894

01:56:54.314 --> 01:56:56.471 clinical skills because I also want

NOTE Confidence: 0.90357894

01:56:56.471 --> 01:56:58.559 to be a practicing child psychiatrist

NOTE Confidence: 0.90357894

01:56:58.560 --> 01:57:00.640 and this model of simultaneously

NOTE Confidence: 0.90357894

01:57:00.640 --> 01:57:02.720 working with patients while conducting

NOTE Confidence: 0.90357894

01:57:02.787 --> 01:57:04.559 research is incredibly powerful

NOTE Confidence: 0.90357894

01:57:04.559 --> 01:57:06.774 because there's a constant feedback.

NOTE Confidence: 0.90357894

01:57:06.780 --> 01:57:09.524 I find that my clinical work informs the

NOTE Confidence: 0.90357894

01:57:09.524 --> 01:57:11.907 research questions I ask and my research

NOTE Confidence: 0.90357894

01:57:11.907 --> 01:57:13.890 findings also improve our clinical work.

NOTE Confidence: 0.9277848975

01:57:15.540 --> 01:57:16.308 On a more personal

NOTE Confidence: 0.912715541875

01:57:16.320 --> 01:57:18.669 note, I want to add that during my training

NOTE Confidence: 0.912715541875

01:57:18.669 --> 01:57:20.907 I also became apparent to two kids.

NOTE Confidence: 0.912715541875

01:57:20.910 --> 01:57:22.790 This experience has been wonderful

NOTE Confidence: 0.912715541875

01:57:22.790 --> 01:57:25.088 in many ways, and it's also further  
NOTE Confidence: 0.912715541875

01:57:25.088 --> 01:57:26.548 solidified my commitment to the  
NOTE Confidence: 0.912715541875

01:57:26.548 --> 01:57:28.395 work that we do here at the center.  
NOTE Confidence: 0.912715541875

01:57:28.400 --> 01:57:30.200 And just as the center has helped so  
NOTE Confidence: 0.912715541875

01:57:30.200 --> 01:57:31.636 many children and families that we've  
NOTE Confidence: 0.912715541875

01:57:31.636 --> 01:57:33.450 heard about just in the last session,  
NOTE Confidence: 0.912715541875

01:57:33.450 --> 01:57:35.054 they've also been incredibly  
NOTE Confidence: 0.912715541875

01:57:35.054 --> 01:57:38.670 supportive of my own family.  
NOTE Confidence: 0.912715541875

01:57:38.670 --> 01:57:40.646 I'm now in my last year of training and  
NOTE Confidence: 0.912715541875

01:57:40.646 --> 01:57:42.738 I'm in that process of transitioning.  
NOTE Confidence: 0.912715541875

01:57:42.740 --> 01:57:44.525 Unfortunate that I recently received  
NOTE Confidence: 0.912715541875

01:57:44.525 --> 01:57:47.000 a strong score on an NIH grant,  
NOTE Confidence: 0.912715541875

01:57:47.000 --> 01:57:48.720 a career development award which  
NOTE Confidence: 0.912715541875

01:57:48.720 --> 01:57:51.040 really builds upon the work that I  
NOTE Confidence: 0.912715541875

01:57:51.040 --> 01:57:53.192 mentioned to you today at the TAB study,  
NOTE Confidence: 0.912715541875

01:57:53.200 --> 01:57:55.243 and my hope is to be able to continue

NOTE Confidence: 0.912715541875

01:57:55.243 --> 01:57:56.823 this work as a faculty member

NOTE Confidence: 0.912715541875

01:57:56.823 --> 01:57:58.560 at the Yale Child Study Center,

NOTE Confidence: 0.912715541875

01:57:58.560 --> 01:58:00.716 which, over the last six years has

NOTE Confidence: 0.912715541875

01:58:00.716 --> 01:58:03.090 become my academic home.

NOTE Confidence: 0.912715541875

01:58:03.090 --> 01:58:03.350 With

NOTE Confidence: 0.940894041666667

01:58:03.350 --> 01:58:05.770 that I just want to thank UM, all

NOTE Confidence: 0.949663465

01:58:05.780 --> 01:58:07.880 my funding and everyone who's supported me.

NOTE Confidence: 0.854229207647059

01:58:10.580 --> 01:58:11.900 Thank you so much.

NOTE Confidence: 0.854229207647059

01:58:11.900 --> 01:58:14.278 I'm really how I would just say

NOTE Confidence: 0.854229207647059

01:58:14.278 --> 01:58:16.186 that we share your hope so.

NOTE Confidence: 0.854229207647059

01:58:16.190 --> 01:58:18.860 So let me turn to Karthik.

NOTE Confidence: 0.854229207647059

01:58:18.860 --> 01:58:20.760 Gotta be Roman kartik.

NOTE Confidence: 0.95012534

01:58:24.770 --> 01:58:26.406 Right, uh, I'm Karthik I'm

NOTE Confidence: 0.95012534

01:58:26.406 --> 01:58:28.140 the other six year along with

NOTE Confidence: 0.789441166666667

01:58:28.208 --> 01:58:30.520 Emily and usually I give a talk about

NOTE Confidence: 0.789441166666667

01:58:30.520 --> 01:58:33.022 my interest in the neuro developmental  
NOTE Confidence: 0.789441166666667

01:58:33.022 --> 01:58:34.414 trajectory of schizophrenia.  
NOTE Confidence: 0.789441166666667

01:58:34.420 --> 01:58:35.748 But being at the end of my training,  
NOTE Confidence: 0.789441166666667

01:58:35.750 --> 01:58:37.310 I thought it would be a great opportunity  
NOTE Confidence: 0.789441166666667

01:58:37.310 --> 01:58:38.825 to talk about my own developmental  
NOTE Confidence: 0.789441166666667

01:58:38.825 --> 01:58:40.175 trajectory and the essential role.  
NOTE Confidence: 0.789441166666667

01:58:40.180 --> 01:58:41.752 The Child Study Center has had  
NOTE Confidence: 0.789441166666667

01:58:41.752 --> 01:58:43.310 in helping me develop my voice.  
NOTE Confidence: 0.789441166666667

01:58:43.310 --> 01:58:44.860 And really being someone that,  
NOTE Confidence: 0.789441166666667

01:58:44.860 --> 01:58:46.010 in this trite saying of  
NOTE Confidence: 0.789441166666667

01:58:46.010 --> 01:58:46.930 bench to bedside lesson,  
NOTE Confidence: 0.789441166666667

01:58:46.930 --> 01:58:48.898 that I really strive to try to do.  
NOTE Confidence: 0.789441166666667

01:58:48.900 --> 01:58:49.745 And it's only recently have  
NOTE Confidence: 0.789441166666667

01:58:49.745 --> 01:58:50.700 been able to do that at  
NOTE Confidence: 0.79898375

01:58:50.710 --> 01:58:53.078 the CHILD Study Center.  
NOTE Confidence: 0.79898375

01:58:53.080 --> 01:58:54.909 Alright, and so prior



NOTE Confidence: 0.6072294

01:58:54.920 --> 01:58:56.288 to coming to Yale,

NOTE Confidence: 0.6072294

01:58:56.288 --> 01:58:59.660 I did my MD PhD on the West Coast

NOTE Confidence: 0.6072294

01:58:59.660 --> 01:59:01.420 and during my Graduate School time.

NOTE Confidence: 0.6072294

01:59:01.420 --> 01:59:03.298 I studied very early brain development.

NOTE Confidence: 0.6072294

01:59:03.300 --> 01:59:04.900 I was really interested in the

NOTE Confidence: 0.6072294

01:59:04.900 --> 01:59:06.160 intricacies of gene regulation.

NOTE Confidence: 0.6072294

01:59:06.160 --> 01:59:07.744 How do you turn on a gene at the

NOTE Confidence: 0.6072294

01:59:07.744 --> 01:59:09.089 right place in the right time?

NOTE Confidence: 0.6072294

01:59:09.090 --> 01:59:11.142 This is just a figure from one of my

NOTE Confidence: 0.6072294

01:59:11.142 --> 01:59:13.088 papers from grad school and actually just

NOTE Confidence: 0.6072294

01:59:13.088 --> 01:59:15.115 came out and then it's an overwhelming

NOTE Confidence: 0.6072294

01:59:15.115 --> 01:59:16.656 slide 'cause it's a lot of data.

NOTE Confidence: 0.6072294

01:59:16.660 --> 01:59:18.020 It's a lot of information

NOTE Confidence: 0.6072294

01:59:18.020 --> 01:59:19.380 and I absolutely loved it.

NOTE Confidence: 0.6072294

01:59:19.380 --> 01:59:21.740 I'm a little transcription factor nerd,

NOTE Confidence: 0.6072294

01:59:21.740 --> 01:59:23.520 I think, however.  
NOTE Confidence: 0.6072294

01:59:23.520 --> 01:59:25.140 I was struggling at the end of grad  
NOTE Confidence: 0.6072294

01:59:25.140 --> 01:59:26.969 school of how I could translate this work  
NOTE Confidence: 0.6072294

01:59:26.969 --> 01:59:28.277 into something clinically meaningful.  
NOTE Confidence: 0.6072294

01:59:28.280 --> 01:59:30.240 How could I actually help patients with this?  
NOTE Confidence: 0.6072294

01:59:30.240 --> 01:59:32.528 So I put that concerned aside and went  
NOTE Confidence: 0.6072294

01:59:32.528 --> 01:59:34.232 back to Medicine Medical School and  
NOTE Confidence: 0.6072294

01:59:34.232 --> 01:59:36.068 finished my last two clinical years.  
NOTE Confidence: 0.6072294

01:59:36.070 --> 01:59:37.688 Wow, those during those last two  
NOTE Confidence: 0.6072294

01:59:37.688 --> 01:59:39.361 years that I realized I love child  
NOTE Confidence: 0.6072294

01:59:39.361 --> 01:59:40.482 psychiatry working with children  
NOTE Confidence: 0.6072294

01:59:40.482 --> 01:59:42.370 that have always enjoyed and I was  
NOTE Confidence: 0.6072294

01:59:42.370 --> 01:59:44.310 really struck by children and their  
NOTE Confidence: 0.6072294

01:59:44.310 --> 01:59:46.210 resilience as well as how much they  
NOTE Confidence: 0.6072294

01:59:46.210 --> 01:59:48.286 struggled and at the same time I  
NOTE Confidence: 0.6072294

01:59:48.286 --> 01:59:49.907 realized the patients that really

NOTE Confidence: 0.6072294

01:59:49.907 --> 01:59:52.224 struck me and really drew me in

NOTE Confidence: 0.6072294

01:59:52.224 --> 01:59:54.140 where patients with schizophrenia,

NOTE Confidence: 0.6072294

01:59:54.140 --> 01:59:55.665 which is traditionally the purview

NOTE Confidence: 0.6072294

01:59:55.665 --> 01:59:56.580 of adult psychiatry.

NOTE Confidence: 0.6072294

01:59:56.580 --> 01:59:58.468 So when I went onto the interview trail,

NOTE Confidence: 0.6072294

01:59:58.470 --> 02:00:00.084 I got advice from people that

NOTE Confidence: 0.6072294

02:00:00.084 --> 02:00:01.627 really respected that I shouldn't

NOTE Confidence: 0.6072294

02:00:01.627 --> 02:00:02.848 do child psychiatrist.

NOTE Confidence: 0.6072294

02:00:02.850 --> 02:00:04.898 Stick to adult psychiatry as that would be

NOTE Confidence: 0.6072294

02:00:04.898 --> 02:00:07.088 better for my clinical interests as well as.

NOTE Confidence: 0.6072294

02:00:07.088 --> 02:00:08.756 More supportive of my basic science

NOTE Confidence: 0.6072294

02:00:08.760 --> 02:00:10.930 research and so my last interview was

NOTE Confidence: 0.6072294

02:00:10.930 --> 02:00:12.940 at Yale at the at the SONET program,

NOTE Confidence: 0.6072294

02:00:12.940 --> 02:00:14.320 and I was really excited to

NOTE Confidence: 0.6072294

02:00:14.320 --> 02:00:15.240 learn about the program.

NOTE Confidence: 0.6072294

02:00:15.240 --> 02:00:16.362 As Emily mentioned,  
NOTE Confidence: 0.6072294

02:00:16.362 --> 02:00:18.606 it's one of these unique programs  
NOTE Confidence: 0.6072294

02:00:18.606 --> 02:00:20.546 that integrates adult child  
NOTE Confidence: 0.6072294

02:00:20.546 --> 02:00:22.538 psychiatry along with research,  
NOTE Confidence: 0.6072294

02:00:22.540 --> 02:00:24.553 and it was really great to talk to  
NOTE Confidence: 0.6072294

02:00:24.553 --> 02:00:26.299 people that were current trainees that  
NOTE Confidence: 0.6072294

02:00:26.299 --> 02:00:28.567 as well as mentors that integrated both  
NOTE Confidence: 0.6072294

02:00:28.567 --> 02:00:30.798 that did basic signs that did research  
NOTE Confidence: 0.6072294

02:00:30.798 --> 02:00:32.877 as well as seeing patients that did  
NOTE Confidence: 0.6072294

02:00:32.880 --> 02:00:34.670 someone something that didn't have  
NOTE Confidence: 0.6072294

02:00:34.670 --> 02:00:36.460 very much experience with previously.  
NOTE Confidence: 0.6072294

02:00:36.460 --> 02:00:39.080 And so I was really excited to get into the.  
NOTE Confidence: 0.6072294

02:00:39.080 --> 02:00:40.094 Program and so.  
NOTE Confidence: 0.6072294

02:00:40.094 --> 02:00:42.460 Over the first couple years I was  
NOTE Confidence: 0.6072294

02:00:42.530 --> 02:00:44.876 able to work with adults with  
NOTE Confidence: 0.6072294

02:00:44.876 --> 02:00:46.818 schizophrenia both in the acute setting,

NOTE Confidence: 0.6072294

02:00:46.820 --> 02:00:48.536 the emergency room and including page.

NOTE Confidence: 0.6072294

02:00:48.540 --> 02:00:49.688 They were actively psychotic,

NOTE Confidence: 0.6072294

02:00:49.688 --> 02:00:51.660 as well as the inpatient setting

NOTE Confidence: 0.6072294

02:00:51.660 --> 02:00:53.220 and the outpatient setting,

NOTE Confidence: 0.6072294

02:00:53.220 --> 02:00:55.160 but addition had the unique opportunity

NOTE Confidence: 0.6072294

02:00:55.160 --> 02:00:57.656 to work in a young child inpatient unit.

NOTE Confidence: 0.6072294

02:00:57.660 --> 02:00:59.700 And during that time I met a couple

NOTE Confidence: 0.6072294

02:00:59.700 --> 02:01:01.368 of children that were just starting

NOTE Confidence: 0.6072294

02:01:01.368 --> 02:01:03.456 to hear voices that were on this

NOTE Confidence: 0.6072294

02:01:03.456 --> 02:01:05.306 very scary pathway to schizophrenia.

NOTE Confidence: 0.6072294

02:01:05.310 --> 02:01:06.550 And that was something that

NOTE Confidence: 0.6072294

02:01:06.550 --> 02:01:07.542 really resonated with me.

NOTE Confidence: 0.6072294

02:01:07.550 --> 02:01:09.413 And this is the population I really want to.

NOTE Confidence: 0.6072294

02:01:09.420 --> 02:01:09.870 Work with

NOTE Confidence: 0.949203157142857

02:01:10.200 --> 02:01:11.845 at the same time. I was also

NOTE Confidence: 0.845992735714286

02:01:12.210 --> 02:01:13.988 working in the laboratory of Doctor Nets,  
NOTE Confidence: 0.845992735714286

02:01:13.990 --> 02:01:16.340 Aston in that lab I was really  
NOTE Confidence: 0.845992735714286

02:01:16.340 --> 02:01:16.985 interested in understanding  
NOTE Confidence: 0.845992735714286

02:01:16.985 --> 02:01:18.159 how the front of the brain,  
NOTE Confidence: 0.845992735714286

02:01:18.160 --> 02:01:20.260 the prefrontal cortex, develops,  
NOTE Confidence: 0.845992735714286

02:01:20.260 --> 02:01:21.256 as well as how it evolves.  
NOTE Confidence: 0.845992735714286

02:01:21.260 --> 02:01:22.815 The prefrontal cortex is greatly  
NOTE Confidence: 0.845992735714286

02:01:22.815 --> 02:01:24.747 expanded in humans as well as  
NOTE Confidence: 0.845992735714286

02:01:24.747 --> 02:01:26.352 special properties that are thought  
NOTE Confidence: 0.845992735714286

02:01:26.352 --> 02:01:28.129 to underlie our unique capabilities  
NOTE Confidence: 0.845992735714286

02:01:28.129 --> 02:01:30.230 in complex social behaviors. But  
NOTE Confidence: 0.88149592875

02:01:30.260 --> 02:01:32.884 these same unique changes in the human brain  
NOTE Confidence: 0.79153505125

02:01:32.920 --> 02:01:35.035 may underlie our risk for  
NOTE Confidence: 0.79153505125

02:01:35.035 --> 02:01:36.304 Neuro psychiatric disorder.  
NOTE Confidence: 0.79153505125

02:01:36.310 --> 02:01:38.698 So while I was doing my second stint on  
NOTE Confidence: 0.79153505125

02:01:38.698 --> 02:01:41.679 Winnie one as a fellow sister my 4th year,

NOTE Confidence: 0.79153505125  
02:01:41.680 --> 02:01:43.916 I stumbled upon this really exciting finding,  
NOTE Confidence: 0.79153505125  
02:01:43.916 --> 02:01:45.408 which is displayed here.  
NOTE Confidence: 0.79153505125  
02:01:45.410 --> 02:01:46.388 Just summarizing it.  
NOTE Confidence: 0.79153505125  
02:01:46.388 --> 02:01:48.636 Basically what we found was disruption  
NOTE Confidence: 0.79153505125  
02:01:48.636 --> 02:01:51.066 of development of the prefrontal cortex.  
NOTE Confidence: 0.79153505125  
02:01:51.066 --> 02:01:52.860 So think the second trimester of  
NOTE Confidence: 0.79153505125  
02:01:52.915 --> 02:01:55.076 pregnancy could produce the exact same  
NOTE Confidence: 0.79153505125  
02:01:55.076 --> 02:01:57.416 circuit deficits described in patients.  
NOTE Confidence: 0.79153505125  
02:01:57.420 --> 02:01:59.800 Adults with schizophrenia, for example.  
NOTE Confidence: 0.79153505125  
02:01:59.800 --> 02:02:01.654 This is an image of a five day old  
NOTE Confidence: 0.79153505125  
02:02:01.654 --> 02:02:03.430 mouse brain and what you see on the  
NOTE Confidence: 0.79153505125  
02:02:03.430 --> 02:02:04.991 right is the connection between the  
NOTE Confidence: 0.79153505125  
02:02:04.991 --> 02:02:06.979 front of the brain or the medial  
NOTE Confidence: 0.79153505125  
02:02:06.980 --> 02:02:08.360 prefrontal cortex and the thalamus.  
NOTE Confidence: 0.79153505125  
02:02:08.360 --> 02:02:10.075 You see this thick bundle of connection.  
NOTE Confidence: 0.79153505125

02:02:10.080 --> 02:02:11.960 It's a very important circuit  
NOTE Confidence: 0.79153505125

02:02:11.960 --> 02:02:13.088 for memory cognition,  
NOTE Confidence: 0.79153505125

02:02:13.090 --> 02:02:14.430 but in the mutant mouse  
NOTE Confidence: 0.79153505125

02:02:14.430 --> 02:02:15.502 where we disrupted genes,  
NOTE Confidence: 0.79153505125

02:02:15.510 --> 02:02:16.672 a certain set of genes,  
NOTE Confidence: 0.79153505125

02:02:16.672 --> 02:02:18.980 we saw a huge reduction of connectivity  
NOTE Confidence: 0.79153505125

02:02:18.980 --> 02:02:20.390 and this is something that's been  
NOTE Confidence: 0.79153505125

02:02:20.390 --> 02:02:22.192 described in adults with schizophrenia  
NOTE Confidence: 0.79153505125

02:02:22.192 --> 02:02:24.580 as well as inpatients or prodromal  
NOTE Confidence: 0.79153505125

02:02:24.580 --> 02:02:27.027 adolescence that are starting to  
NOTE Confidence: 0.79153505125

02:02:27.027 --> 02:02:29.680 have mid like the initial symptoms of  
NOTE Confidence: 0.79153505125

02:02:29.751 --> 02:02:32.491 schizophrenia prior to conversion to  
NOTE Confidence: 0.79153505125

02:02:32.491 --> 02:02:34.556 psychosis and these findings as well  
NOTE Confidence: 0.79153505125

02:02:34.556 --> 02:02:35.960 as my clicker experience had really  
NOTE Confidence: 0.79153505125

02:02:36.006 --> 02:02:37.296 coalesced into my future plants,  
NOTE Confidence: 0.79153505125

02:02:37.300 --> 02:02:37.566 right?



NOTE Confidence: 0.79153505125

02:02:37.566 --> 02:02:39.428 I really see a way of integrating

NOTE Confidence: 0.79153505125

02:02:39.428 --> 02:02:40.450 my basic science.

NOTE Confidence: 0.79153505125

02:02:40.450 --> 02:02:41.530 Interesting to something clinical,

NOTE Confidence: 0.79153505125

02:02:41.530 --> 02:02:43.721 but I'm hoping to study is how

NOTE Confidence: 0.79153505125

02:02:43.721 --> 02:02:45.576 can disruption of second trimester

NOTE Confidence: 0.79153505125

02:02:45.576 --> 02:02:47.934 pregnancy and this so well established

NOTE Confidence: 0.79153505125

02:02:47.934 --> 02:02:49.944 point for example during famines

NOTE Confidence: 0.79153505125

02:02:49.944 --> 02:02:52.703 or pandemics or any type of stress

NOTE Confidence: 0.79153505125

02:02:52.703 --> 02:02:53.445 during pregnancy.

NOTE Confidence: 0.79153505125

02:02:53.450 --> 02:02:55.830 There is a massive increase of the

NOTE Confidence: 0.79153505125

02:02:55.830 --> 02:02:57.829 risk of schizophrenia 20 years later,

NOTE Confidence: 0.79153505125

02:02:57.830 --> 02:02:58.986 so I'm interested in understanding

NOTE Confidence: 0.79153505125

02:02:58.986 --> 02:03:00.745 what's going on in those twenty

NOTE Confidence: 0.79153505125

02:03:00.745 --> 02:03:02.260 years from that initial genetic

NOTE Confidence: 0.79153505125

02:03:02.314 --> 02:03:04.244 or environmental stressor to that

NOTE Confidence: 0.79153505125

02:03:04.244 --> 02:03:05.016 later diagnosis.  
NOTE Confidence: 0.79153505125

02:03:05.020 --> 02:03:05.256 Schizophrenia,  
NOTE Confidence: 0.79153505125

02:03:05.256 --> 02:03:06.672 I think if we can understand  
NOTE Confidence: 0.79153505125

02:03:06.672 --> 02:03:08.028 what's going on those 20 years,  
NOTE Confidence: 0.79153505125

02:03:08.030 --> 02:03:09.650 we can possibly prevent  
NOTE Confidence: 0.79153505125

02:03:09.650 --> 02:03:10.460 schizophrenia completely.  
NOTE Confidence: 0.79153505125

02:03:10.460 --> 02:03:12.740 Which is my big long term goal.  
NOTE Confidence: 0.79153505125

02:03:12.740 --> 02:03:14.648 I couldn't have done this research and  
NOTE Confidence: 0.79153505125

02:03:14.648 --> 02:03:15.970 had this experience anywhere else,  
NOTE Confidence: 0.79153505125

02:03:15.970 --> 02:03:17.545 so I'm so grateful to be at  
NOTE Confidence: 0.79153505125

02:03:17.545 --> 02:03:18.979 the Yale Child Study Center.  
NOTE Confidence: 0.79153505125

02:03:18.980 --> 02:03:21.164 I'm excited to continue this, hopefully here.  
NOTE Confidence: 0.79153505125

02:03:21.164 --> 02:03:23.096 Just like Emily said as well.  
NOTE Confidence: 0.79153505125

02:03:23.100 --> 02:03:24.105 And of course,  
NOTE Confidence: 0.79153505125

02:03:24.105 --> 02:03:26.450 I'm thankful for everyone that was involved.  
NOTE Confidence: 0.79153505125

02:03:26.450 --> 02:03:27.426 This test in lab,

NOTE Confidence: 0.79153505125

02:03:27.426 --> 02:03:28.955 all our collaborators, all the funding.

NOTE Confidence: 0.79153505125

02:03:28.955 --> 02:03:30.810 Some of my work that I'm going

NOTE Confidence: 0.79153505125

02:03:30.866 --> 02:03:32.894 into really trying to create better

NOTE Confidence: 0.79153505125

02:03:32.894 --> 02:03:34.558 models of psychiatry was funded

NOTE Confidence: 0.79153505125

02:03:34.558 --> 02:03:36.740 by the Alan Sipka Foundation.

NOTE Confidence: 0.79153505125

02:03:36.740 --> 02:03:37.976 Starfinder pronounced that as

NOTE Confidence: 0.79153505125

02:03:37.976 --> 02:03:39.344 well as everyone that was involved

NOTE Confidence: 0.79153505125

02:03:39.344 --> 02:03:40.510 in the solar program.

NOTE Confidence: 0.79153505125

02:03:40.510 --> 02:03:41.245 The child space,

NOTE Confidence: 0.79153505125

02:03:41.245 --> 02:03:42.470 and they've been so supportive

NOTE Confidence: 0.79153505125

02:03:42.470 --> 02:03:43.530 the whole way through.

NOTE Confidence: 0.79153505125

02:03:43.530 --> 02:03:44.546 And as I said,

NOTE Confidence: 0.79153505125

02:03:44.546 --> 02:03:46.070 I'm really grateful for the opportunity,

NOTE Confidence: 0.79153505125

02:03:46.070 --> 02:03:46.490 thanks.

NOTE Confidence: 0.854435446

02:03:51.470 --> 02:03:53.590 Thank you so much Karthik.

NOTE Confidence: 0.854435446

02:03:53.590 --> 02:03:56.100 May I turn to doctor Kareem Abraham?  
NOTE Confidence: 0.697453776666667

02:04:21.190 --> 02:04:22.108 You're on karine.  
NOTE Confidence: 0.949646785454546

02:04:23.160 --> 02:04:24.858 I thank you for this wonderful  
NOTE Confidence: 0.949646785454546

02:04:24.858 --> 02:04:26.704 opportunity to share with you. My story.  
NOTE Confidence: 0.949646785454546

02:04:26.704 --> 02:04:28.520 My name is Kareem and I'm an earth  
NOTE Confidence: 0.949646785454546

02:04:28.574 --> 02:04:30.330 scientist and child psychologists.  
NOTE Confidence: 0.949646785454546

02:04:30.330 --> 02:04:31.986 Here Child study center.  
NOTE Confidence: 0.949646785454546

02:04:31.986 --> 02:04:34.470 The overall goal of my research  
NOTE Confidence: 0.949646785454546

02:04:34.546 --> 02:04:36.476 is to understand brain networks  
NOTE Confidence: 0.949646785454546

02:04:36.476 --> 02:04:37.968 related to emotion regulation,  
NOTE Confidence: 0.949646785454546

02:04:37.970 --> 02:04:40.420 impairments and child mental health  
NOTE Confidence: 0.949646785454546

02:04:40.420 --> 02:04:42.940 that can inform clinical interventions.  
NOTE Confidence: 0.949646785454546

02:04:42.940 --> 02:04:45.005 And with the ultimate goal of improving  
NOTE Confidence: 0.949646785454546

02:04:45.005 --> 02:04:47.570 the life of children and their families.  
NOTE Confidence: 0.949646785454546

02:04:47.570 --> 02:04:50.154 So my story really begins with a handshake.  
NOTE Confidence: 0.949646785454546

02:04:50.160 --> 02:04:51.666 Well at least.

NOTE Confidence: 0.949646785454546

02:04:51.666 --> 02:04:54.176 Pre COVID several years ago

NOTE Confidence: 0.949646785454546

02:04:54.176 --> 02:04:56.858 and shaking hands was a norm.

NOTE Confidence: 0.949646785454546

02:04:56.860 --> 02:04:58.603 I remember that day quite well because

NOTE Confidence: 0.949646785454546

02:04:58.603 --> 02:05:00.949 I was at the Seaver Autism Center Mount

NOTE Confidence: 0.949646785454546

02:05:00.949 --> 02:05:03.020 Sinai drives in my graduate research,

NOTE Confidence: 0.949646785454546

02:05:03.020 --> 02:05:04.748 and at the time I was a doctoral

NOTE Confidence: 0.949646785454546

02:05:04.748 --> 02:05:06.240 student in clinical psychology.

NOTE Confidence: 0.949646785454546

02:05:06.240 --> 02:05:09.194 In my research focused on understanding brain

NOTE Confidence: 0.949646785454546

02:05:09.194 --> 02:05:11.729 regions important for social functioning.

NOTE Confidence: 0.949646785454546

02:05:11.730 --> 02:05:14.005 Here I'm showing you some of the

NOTE Confidence: 0.949646785454546

02:05:14.005 --> 02:05:15.977 main findings where children who

NOTE Confidence: 0.949646785454546

02:05:15.977 --> 02:05:18.292 receive social skills training showed

NOTE Confidence: 0.949646785454546

02:05:18.292 --> 02:05:20.554 increased activation in a region

NOTE Confidence: 0.949646785454546

02:05:20.554 --> 02:05:22.564 called the medial prefrontal cortex.

NOTE Confidence: 0.949646785454546

02:05:22.570 --> 02:05:24.600 When interpreting ironic scenarios and

NOTE Confidence: 0.949646785454546

02:05:24.600 --> 02:05:27.310 viewing faces with different gaze directions,  
NOTE Confidence: 0.949646785454546

02:05:27.310 --> 02:05:29.508 so even at this very early stage  
NOTE Confidence: 0.949646785454546

02:05:29.508 --> 02:05:30.450 of my career,  
NOTE Confidence: 0.949646785454546

02:05:30.450 --> 02:05:32.712 this really sparked my interest to  
NOTE Confidence: 0.949646785454546

02:05:32.712 --> 02:05:34.220 understand how brain activation  
NOTE Confidence: 0.949646785454546

02:05:34.280 --> 02:05:35.995 changes following treatment and how  
NOTE Confidence: 0.949646785454546

02:05:35.995 --> 02:05:38.144 this can be leveraged to develop  
NOTE Confidence: 0.949646785454546

02:05:38.144 --> 02:05:40.406 better and even more focused clinical  
NOTE Confidence: 0.949646785454546

02:05:40.406 --> 02:05:42.200 treatments for child mental health.  
NOTE Confidence: 0.8835991624

02:05:46.810 --> 02:05:47.730 So it was again.  
NOTE Confidence: 0.8835991624

02:05:47.730 --> 02:05:49.850 It was a raining day and I remember  
NOTE Confidence: 0.8835991624

02:05:49.850 --> 02:05:51.902 thinking it's actually perfect day for  
NOTE Confidence: 0.8835991624

02:05:51.902 --> 02:05:54.268 catching up on reading and paper writing.  
NOTE Confidence: 0.8835991624

02:05:54.270 --> 02:05:56.307 Then my graduate mentor found me and  
NOTE Confidence: 0.8835991624

02:05:56.307 --> 02:05:58.988 invited me to join her at grand Rounds talk.  
NOTE Confidence: 0.8835991624

02:05:58.990 --> 02:06:00.502 She emphasized that his right at

NOTE Confidence: 0.8835991624

02:06:00.502 --> 02:06:02.340 my alley and that the speaker was

NOTE Confidence: 0.8835991624

02:06:02.340 --> 02:06:03.888 from the L Child Study Center,

NOTE Confidence: 0.8835991624

02:06:03.890 --> 02:06:05.265 but she didn't really provide

NOTE Confidence: 0.8835991624

02:06:05.265 --> 02:06:06.090 much more detail,

NOTE Confidence: 0.8835991624

02:06:06.090 --> 02:06:07.574 leaving it quite mysterious,

NOTE Confidence: 0.8835991624

02:06:07.574 --> 02:06:10.450 and I will also admit I actually

NOTE Confidence: 0.8835991624

02:06:10.450 --> 02:06:12.310 did not ask for more detail.

NOTE Confidence: 0.8835991624

02:06:12.310 --> 02:06:13.912 I guess a part of me actually like this.

NOTE Confidence: 0.8835991624

02:06:13.920 --> 02:06:16.326 Spence so we braved the rain.

NOTE Confidence: 0.8835991624

02:06:16.330 --> 02:06:17.667 I went to this Grand Rapids talk.

NOTE Confidence: 0.8835991624

02:06:17.670 --> 02:06:19.677 It was about two to three slides into this

NOTE Confidence: 0.8835991624

02:06:19.677 --> 02:06:21.774 talk when I knew that this was the research

NOTE Confidence: 0.8835991624

02:06:21.774 --> 02:06:23.557 I imagine myself doing in the future.

NOTE Confidence: 0.8835991624

02:06:23.560 --> 02:06:25.150 It had everything it was patient,

NOTE Confidence: 0.8835991624

02:06:25.150 --> 02:06:27.592 oriented with a focus on neuroscience

NOTE Confidence: 0.8835991624

02:06:27.592 --> 02:06:29.970 and neural response to treatment.

NOTE Confidence: 0.8835991624

02:06:29.970 --> 02:06:31.993 I was also really fortunate to have

NOTE Confidence: 0.8835991624

02:06:31.993 --> 02:06:33.786 the opportunity to join my advice

NOTE Confidence: 0.8835991624

02:06:33.786 --> 02:06:35.226 or needing with the speaker.

NOTE Confidence: 0.8835991624

02:06:35.230 --> 02:06:36.187 After the talk,

NOTE Confidence: 0.8835991624

02:06:36.187 --> 02:06:37.782 the speaker was actually Doctor

NOTE Confidence: 0.8835991624

02:06:37.782 --> 02:06:39.414 Dennis Super Dulski, shown here,

NOTE Confidence: 0.8835991624

02:06:39.414 --> 02:06:41.388 who is a faculty at the center.

NOTE Confidence: 0.8835991624

02:06:41.390 --> 02:06:42.830 Here we shook hands.

NOTE Confidence: 0.8835991624

02:06:42.830 --> 02:06:45.789 We had a great conversation about our shared.

NOTE Confidence: 0.8835991624

02:06:45.790 --> 02:06:47.530 Interest.

NOTE Confidence: 0.8835991624

02:06:47.530 --> 02:06:49.350 Uhm?

NOTE Confidence: 0.8835991624

02:06:49.350 --> 02:06:51.614 So I would later go on to complete

NOTE Confidence: 0.8835991624

02:06:51.614 --> 02:06:53.486 my graduate training in cognitive

NOTE Confidence: 0.8835991624

02:06:53.486 --> 02:06:55.138 behavioral interventions and NSS

NOTE Confidence: 0.8835991624

02:06:55.138 --> 02:06:57.528 lab and then a T32 postdoctoral



NOTE Confidence: 0.8835991624  
02:06:57.528 --> 02:06:59.070 research scholarship directed  
NOTE Confidence: 0.8835991624  
02:06:59.070 --> 02:07:01.126 by Doctor Michael Crowley.  
NOTE Confidence: 0.8835991624  
02:07:01.130 --> 02:07:03.944 Were Dennis served as my primary mentor.  
NOTE Confidence: 0.8835991624  
02:07:03.950 --> 02:07:05.270 But during my postdoc,  
NOTE Confidence: 0.8835991624  
02:07:05.270 --> 02:07:07.250 Dennis played a vital role in  
NOTE Confidence: 0.8835991624  
02:07:07.323 --> 02:07:09.155 really fostering my collaborations  
NOTE Confidence: 0.8835991624  
02:07:09.155 --> 02:07:10.987 with neuroimaging experts who  
NOTE Confidence: 0.8835991624  
02:07:10.987 --> 02:07:12.860 are now my Co mentors,  
NOTE Confidence: 0.8835991624  
02:07:12.860 --> 02:07:14.235 which has been crucial for  
NOTE Confidence: 0.8835991624  
02:07:14.235 --> 02:07:16.007 my training and leading to a  
NOTE Confidence: 0.8835991624  
02:07:16.007 --> 02:07:17.697 research award from the Yale  
NOTE Confidence: 0.8835991624  
02:07:17.697 --> 02:07:19.049 Center for Clinical Investigation.  
NOTE Confidence: 0.87535139  
02:07:21.990 --> 02:07:23.550 So now as a junior faculty,  
NOTE Confidence: 0.87535139  
02:07:23.550 --> 02:07:25.650 my research focuses on brain networks,  
NOTE Confidence: 0.87535139  
02:07:25.650 --> 02:07:27.429 underlying emotion regulation,  
NOTE Confidence: 0.87535139

02:07:27.429 --> 02:07:29.208 impairments across child  
NOTE Confidence: 0.87535139

02:07:29.208 --> 02:07:30.394 psychiatric disorders,  
NOTE Confidence: 0.87535139

02:07:30.400 --> 02:07:33.216 and one aspect of my work focuses on  
NOTE Confidence: 0.87535139

02:07:33.216 --> 02:07:34.992 understanding brain connectivity and  
NOTE Confidence: 0.87535139

02:07:34.992 --> 02:07:37.507 developmental disorders such as autism.  
NOTE Confidence: 0.87535139

02:07:37.510 --> 02:07:40.024 Another aspect of my research focuses  
NOTE Confidence: 0.87535139

02:07:40.024 --> 02:07:42.124 on understanding impairments and brain  
NOTE Confidence: 0.87535139

02:07:42.124 --> 02:07:44.278 structure as well as sex differences  
NOTE Confidence: 0.87535139

02:07:44.278 --> 02:07:46.619 in structural and functional networks.  
NOTE Confidence: 0.87535139

02:07:46.620 --> 02:07:48.252 So my research is really multi  
NOTE Confidence: 0.87535139

02:07:48.252 --> 02:07:49.767 modal because it merged his  
NOTE Confidence: 0.87535139

02:07:49.767 --> 02:07:51.259 information from both structural.  
NOTE Confidence: 0.87535139

02:07:51.260 --> 02:07:53.576 And functional imaging to understand what  
NOTE Confidence: 0.87535139

02:07:53.576 --> 02:07:56.329 goes awry and these neural connections  
NOTE Confidence: 0.87535139

02:07:56.330 --> 02:07:59.330 related to mental health conditions.  
NOTE Confidence: 0.87535139

02:07:59.330 --> 02:08:00.036 More recently,

NOTE Confidence: 0.87535139

02:08:00.036 --> 02:08:02.154 another aspect of my research leverages

NOTE Confidence: 0.87535139

02:08:02.154 --> 02:08:04.060 was called Network Neuroscience,

NOTE Confidence: 0.87535139

02:08:04.060 --> 02:08:06.778 which allows us to understand long

NOTE Confidence: 0.87535139

02:08:06.778 --> 02:08:09.108 range neural connections across the

NOTE Confidence: 0.87535139

02:08:09.108 --> 02:08:11.338 entire brain called the connectome.

NOTE Confidence: 0.87535139

02:08:11.340 --> 02:08:13.602 We've also applied this connector modeling

NOTE Confidence: 0.87535139

02:08:13.602 --> 02:08:15.730 method to understand childhood aggression.

NOTE Confidence: 0.864398007142857

02:08:17.850 --> 02:08:19.962 And with the support of a child study

NOTE Confidence: 0.864398007142857

02:08:19.962 --> 02:08:21.868 center Pilot Research award and grant,

NOTE Confidence: 0.864398007142857

02:08:21.870 --> 02:08:23.646 this has allowed me to add

NOTE Confidence: 0.864398007142857

02:08:23.646 --> 02:08:25.240 new aspects to my work.

NOTE Confidence: 0.864398007142857

02:08:25.240 --> 02:08:27.164 And understanding the temporal

NOTE Confidence: 0.864398007142857

02:08:27.164 --> 02:08:29.569 dynamics of these neural connections

NOTE Confidence: 0.864398007142857

02:08:29.570 --> 02:08:31.634 which we can use to identify

NOTE Confidence: 0.864398007142857

02:08:31.634 --> 02:08:33.973 distinct brain States and test how

NOTE Confidence: 0.864398007142857

02:08:33.973 --> 02:08:36.649 disruptions here are linked to emotion  
NOTE Confidence: 0.864398007142857

02:08:36.649 --> 02:08:38.380 regulation impairments in children.  
NOTE Confidence: 0.864398007142857

02:08:38.380 --> 02:08:40.039 So I'm very thankful to have met  
NOTE Confidence: 0.864398007142857

02:08:40.039 --> 02:08:41.987 Dennis and to be at a place where I  
NOTE Confidence: 0.864398007142857

02:08:41.987 --> 02:08:43.650 can focus on the three things that  
NOTE Confidence: 0.864398007142857

02:08:43.650 --> 02:08:45.568 I loved most in my research career.  
NOTE Confidence: 0.864398007142857

02:08:45.570 --> 02:08:46.298 Neuroscience,  
NOTE Confidence: 0.864398007142857

02:08:46.298 --> 02:08:49.210 mentoring and teaching students.  
NOTE Confidence: 0.864398007142857

02:08:49.210 --> 02:08:52.766 And maintaining my skills as a violinist.  
NOTE Confidence: 0.864398007142857

02:08:52.770 --> 02:08:54.410 Actually, I'm also founding member  
NOTE Confidence: 0.864398007142857

02:08:54.410 --> 02:08:56.380 of the Send string quartet here.  
NOTE Confidence: 0.864398007142857

02:08:56.380 --> 02:08:57.540 The Child Study Center,  
NOTE Confidence: 0.864398007142857

02:08:57.540 --> 02:08:58.990 which is named after Dr.  
NOTE Confidence: 0.864398007142857

02:08:58.990 --> 02:09:01.312 Milton Son who was a child  
NOTE Confidence: 0.864398007142857

02:09:01.312 --> 02:09:02.860 psychiatrist and the second  
NOTE Confidence: 0.864398007142857

02:09:02.932 --> 02:09:05.440 director of the Child Study Center.

NOTE Confidence: 0.864398007142857  
02:09:05.440 --> 02:09:07.162 I'm also extremely thankful to doctor  
NOTE Confidence: 0.864398007142857  
02:09:07.162 --> 02:09:09.004 Linda Mays for her immense supporting  
NOTE Confidence: 0.864398007142857  
02:09:09.004 --> 02:09:11.230 guidance on this path and to illustrate  
NOTE Confidence: 0.864398007142857  
02:09:11.230 --> 02:09:12.877 the dedication and support from  
NOTE Confidence: 0.864398007142857  
02:09:12.877 --> 02:09:14.785 Dennis and the Child Study Center.  
NOTE Confidence: 0.864398007142857  
02:09:14.790 --> 02:09:17.409 I would like to share with you a review  
NOTE Confidence: 0.864398007142857  
02:09:17.409 --> 02:09:19.892 or comment from my recent NIH career  
NOTE Confidence: 0.864398007142857  
02:09:19.892 --> 02:09:22.768 work grant that I think captures this.  
NOTE Confidence: 0.864398007142857  
02:09:22.770 --> 02:09:25.008 So the reviewer writes that quote  
NOTE Confidence: 0.864398007142857  
02:09:25.008 --> 02:09:27.728 the candidate referring to me and the  
NOTE Confidence: 0.864398007142857  
02:09:27.728 --> 02:09:29.272 project received exuberant support  
NOTE Confidence: 0.864398007142857  
02:09:29.272 --> 02:09:31.210 from all mentors and leadership  
NOTE Confidence: 0.864398007142857  
02:09:31.210 --> 02:09:33.358 at the Yale Child Study Center.  
NOTE Confidence: 0.864398007142857  
02:09:33.360 --> 02:09:34.062 By the way,  
NOTE Confidence: 0.864398007142857  
02:09:34.062 --> 02:09:35.700 this is actually the first time I've  
NOTE Confidence: 0.864398007142857

02:09:35.750 --> 02:09:37.745 ever found myself quoting a grant viewer.  
NOTE Confidence: 0.881530671481481

02:09:41.490 --> 02:09:43.938 So to think that my path was influenced  
NOTE Confidence: 0.881530671481481

02:09:43.938 --> 02:09:45.793 by attending a 45 minute grand  
NOTE Confidence: 0.881530671481481

02:09:45.793 --> 02:09:47.557 rounds lecture New York that led  
NOTE Confidence: 0.881530671481481

02:09:47.625 --> 02:09:49.690 me here to the child study centers.  
NOTE Confidence: 0.881530671481481

02:09:49.690 --> 02:09:52.426 Really quite amazing and  
NOTE Confidence: 0.881530671481481

02:09:52.426 --> 02:09:54.478 perhaps even serendipitous.  
NOTE Confidence: 0.881530671481481

02:09:54.480 --> 02:09:56.360 So I'll leave you with one of our  
NOTE Confidence: 0.881530671481481

02:09:56.360 --> 02:09:57.902 favorite lab pictures of Doctor  
NOTE Confidence: 0.881530671481481

02:09:57.902 --> 02:09:59.250 Dennis Ucode Ostian myself,  
NOTE Confidence: 0.881530671481481

02:09:59.250 --> 02:10:00.958 reviewing emerging data together.  
NOTE Confidence: 0.881530671481481

02:10:01.380 --> 02:10:01.830 Thank you.  
NOTE Confidence: 0.900636568

02:10:03.600 --> 02:10:05.900 Thank you so much, kareen,  
NOTE Confidence: 0.900636568

02:10:05.900 --> 02:10:09.820 we should we should have the sense string  
NOTE Confidence: 0.900636568

02:10:09.820 --> 02:10:12.837 quartet actually virtually play as well.  
NOTE Confidence: 0.900636568

02:10:12.840 --> 02:10:15.608 May I turned to Doctor Carol Thompson Felix?

NOTE Confidence: 0.73377806  
02:10:23.400 --> 02:10:25.580 OK, are you able to see my slides?  
NOTE Confidence: 0.73377806  
02:10:25.580 --> 02:10:28.610 Yes, they look great. Awesome so  
NOTE Confidence: 0.914492366666667  
02:10:28.620 --> 02:10:29.919 good afternoon everyone.  
NOTE Confidence: 0.914492366666667  
02:10:29.920 --> 02:10:31.990 My name is Tara Thompson Felix  
NOTE Confidence: 0.93794872  
02:10:32.260 --> 02:10:33.675 and today I'm excited to  
NOTE Confidence: 0.93794872  
02:10:33.675 --> 02:10:35.090 share with you my experiences  
NOTE Confidence: 0.827295183333333  
02:10:35.100 --> 02:10:36.009 as a trainee  
NOTE Confidence: 0.826277378  
02:10:36.020 --> 02:10:37.870 here at the CHILD Study Center.  
NOTE Confidence: 0.954614735  
02:10:39.140 --> 02:10:41.278 So sometimes a simple email  
NOTE Confidence: 0.9174246975  
02:10:41.310 --> 02:10:42.318 can change the course  
NOTE Confidence: 0.88629481  
02:10:42.330 --> 02:10:43.020 of your life  
NOTE Confidence: 0.92146862  
02:10:43.340 --> 02:10:44.579 and this was the case for me  
NOTE Confidence: 0.880128537142857  
02:10:44.590 --> 02:10:46.660 when I was a junior in college. I  
NOTE Confidence: 0.814902168571429  
02:10:46.670 --> 02:10:49.050 reached out to a world renowned scientist  
NOTE Confidence: 0.9035185625  
02:10:49.060 --> 02:10:49.780 here at the Child  
NOTE Confidence: 0.887378963333333

02:10:49.790 --> 02:10:51.594 Study Center and expressed my  
NOTE Confidence: 0.887378963333333

02:10:51.594 --> 02:10:53.183 interest in learning a little  
NOTE Confidence: 0.887378963333333

02:10:53.183 --> 02:10:55.600 more about research. Shortly  
NOTE Confidence: 0.8698835075

02:10:55.610 --> 02:10:58.366 after joining the lab, I became a  
NOTE Confidence: 0.8698835075

02:10:58.366 --> 02:11:00.038 postgraduate research associate at  
NOTE Confidence: 0.8698835075

02:11:00.038 --> 02:11:02.336 the Child Study Center and received  
NOTE Confidence: 0.8698835075

02:11:02.336 --> 02:11:03.650 funding to develop my skills  
NOTE Confidence: 0.925726533333333

02:11:03.660 --> 02:11:06.800 as a scientist. This experience solidified  
NOTE Confidence: 0.879959082

02:11:06.810 --> 02:11:09.230 my interest in epigenetic research.  
NOTE Confidence: 0.879959082

02:11:09.230 --> 02:11:11.390 I then continued my training at  
NOTE Confidence: 0.879959082

02:11:11.390 --> 02:11:14.740 medical school and also at residency  
NOTE Confidence: 0.957634776666667

02:11:15.010 --> 02:11:16.060 and after completing  
NOTE Confidence: 0.9274208

02:11:16.070 --> 02:11:19.418 my adult psychiatry  
NOTE Confidence: 0.905590063333333

02:11:17.510 --> 02:11:19.260 training at Temple University,  
NOTE Confidence: 0.911506605714286

02:11:19.420 --> 02:11:21.394 the Child Study Center was my number  
NOTE Confidence: 0.949383525

02:11:21.410 --> 02:11:22.290 one choice for the



NOTE Confidence: 0.9547719

02:11:22.300 --> 02:11:25.100 next phase of my training. My fellowship.

NOTE Confidence: 0.913974201176471

02:11:25.490 --> 02:11:27.555 This was because I could see how

NOTE Confidence: 0.913974201176471

02:11:27.555 --> 02:11:29.814 the educators at the CHILD Study

NOTE Confidence: 0.913974201176471

02:11:29.814 --> 02:11:31.566 Center prioritized the professional

NOTE Confidence: 0.913974201176471

02:11:31.570 --> 02:11:33.260 as well as the personal growth

NOTE Confidence: 0.896920836666667

02:11:33.270 --> 02:11:36.000 of their trainees. So obtaining

NOTE Confidence: 0.651622155

02:11:36.010 --> 02:11:37.570 a PhD while completing

NOTE Confidence: 0.959840223333333

02:11:37.580 --> 02:11:38.699 my clinical training

NOTE Confidence: 0.90587696

02:11:38.780 --> 02:11:39.660 with something I had

NOTE Confidence: 0.940932166

02:11:39.670 --> 02:11:41.430 hoped that I could achieve,

NOTE Confidence: 0.940932166

02:11:41.430 --> 02:11:43.598 but I wasn't sure if it would be

NOTE Confidence: 0.940932166

02:11:43.598 --> 02:11:44.806 possible and when I discussed

NOTE Confidence: 0.940932166

02:11:44.806 --> 02:11:46.210 this idea with my mentors here

NOTE Confidence: 0.940932166

02:11:46.262 --> 02:11:47.483 at the CHILD Study Center,

NOTE Confidence: 0.940932166

02:11:47.483 --> 02:11:49.336 they made the seemingly

NOTE Confidence: 0.940932166

02:11:49.336 --> 02:11:50.402 impossible possible.  
NOTE Confidence: 0.940932166

02:11:50.402 --> 02:11:52.534 So I'm now enrolled  
NOTE Confidence: 0.90266305

02:11:52.550 --> 02:11:53.858 in the investigative  
NOTE Confidence: 0.819556116666667

02:11:53.870 --> 02:11:55.679 medicine PhD program  
NOTE Confidence: 0.948370275

02:11:55.890 --> 02:11:57.198 and receiving a financial  
NOTE Confidence: 0.8953248825

02:11:57.210 --> 02:11:59.333 support through a competitive Federal  
NOTE Confidence: 0.8953248825

02:11:59.333 --> 02:12:01.360 funding award here at the Child  
NOTE Confidence: 0.854050253333333

02:12:01.370 --> 02:12:03.290 Study Center. I feel supported  
NOTE Confidence: 0.854050253333333

02:12:03.290 --> 02:12:04.960 not only as a scientist,  
NOTE Confidence: 0.919990584

02:12:04.990 --> 02:12:07.364 but. Also, as a clinician and as  
NOTE Confidence: 0.919990584

02:12:07.364 --> 02:12:09.800 a mother with two young children  
NOTE Confidence: 0.919990584

02:12:09.800 --> 02:12:11.642 and so coordinating all of this  
NOTE Confidence: 0.919990584

02:12:11.642 --> 02:12:13.372 would not be possible without  
NOTE Confidence: 0.919990584

02:12:13.372 --> 02:12:15.730 tremendous support for my program.  
NOTE Confidence: 0.919990584

02:12:15.730 --> 02:12:18.061 So during my clinical supervision I got  
NOTE Confidence: 0.919990584

02:12:18.061 --> 02:12:20.588 advice and guidance about my clinical cases,

NOTE Confidence: 0.919990584

02:12:20.588 --> 02:12:23.699 but also a lot of support and advice on

NOTE Confidence: 0.919990584

02:12:23.700 --> 02:12:26.630 affordable childcare options and financial

NOTE Confidence: 0.919990584

02:12:26.630 --> 02:12:29.480 support available to me as a Yale fellow.

NOTE Confidence: 0.919990584

02:12:29.480 --> 02:12:32.198 This support is so critical to

NOTE Confidence: 0.919990584

02:12:32.200 --> 02:12:34.712 scientists like myself who are just

NOTE Confidence: 0.919990584

02:12:34.712 --> 02:12:36.730 embarking on their research. Here's

NOTE Confidence: 0.9593696

02:12:37.210 --> 02:12:38.458 another amazing part

NOTE Confidence: 0.8216199575

02:12:38.470 --> 02:12:39.518 of being at Yale

NOTE Confidence: 0.913938425

02:12:39.550 --> 02:12:40.854 is the opportunity to

NOTE Confidence: 0.913938425

02:12:40.854 --> 02:12:42.158 work with world renowned

NOTE Confidence: 0.949661625

02:12:42.170 --> 02:12:44.690 leaders in the field. So an example

NOTE Confidence: 0.949661625

02:12:44.690 --> 02:12:46.237 of this is I will be working

NOTE Confidence: 0.67494042

02:12:46.250 --> 02:12:49.426 with Nobel laureate James Rothman for one

NOTE Confidence: 0.67494042

02:12:49.426 --> 02:12:52.570 of my PhD courses this fall and Doctor

NOTE Confidence: 0.67494042

02:12:52.570 --> 02:12:54.590 Rothman's work provided new insight

NOTE Confidence: 0.95895512

02:12:54.600 --> 02:12:55.740 into the mechanisms  
NOTE Confidence: 0.898688872857143

02:12:55.750 --> 02:12:58.118 responsible for cell signaling  
NOTE Confidence: 0.898688872857143

02:12:58.118 --> 02:13:00.968 for my PhD. My advisor, Kieran  
NOTE Confidence: 0.898688872857143

02:13:00.970 --> 02:13:02.700 O'Donnell, is a renowned leader  
NOTE Confidence: 0.9616081

02:13:02.710 --> 02:13:04.310 in pregnancy, mental health  
NOTE Confidence: 0.8842612025

02:13:04.580 --> 02:13:06.850 and how this shapes child brain.  
NOTE Confidence: 0.8842612025

02:13:06.850 --> 02:13:08.980 Development these opportunities have  
NOTE Confidence: 0.9445541425

02:13:08.990 --> 02:13:10.038 allowed me to pursue  
NOTE Confidence: 0.926526116666667

02:13:10.070 --> 02:13:12.220 my scientific passion of  
NOTE Confidence: 0.935144183333333

02:13:12.230 --> 02:13:14.150 trying to understand how the prenatal  
NOTE Confidence: 0.935144183333333

02:13:14.150 --> 02:13:16.790 environment shapes child development  
NOTE Confidence: 0.935144183333333

02:13:16.790 --> 02:13:18.518 and to do so in one of the best  
NOTE Confidence: 0.950494225

02:13:18.530 --> 02:13:19.978 environments in the world.  
NOTE Confidence: 0.90975714

02:13:21.440 --> 02:13:23.055 So how then how is the  
NOTE Confidence: 0.90975714

02:13:23.055 --> 02:13:24.100 environment communicating  
NOTE Confidence: 0.791867865

02:13:24.110 --> 02:13:25.218 with the baby forming

NOTE Confidence: 0.8356612225

02:13:25.230 --> 02:13:26.430 in the womb? This

NOTE Confidence: 0.9746282

02:13:26.440 --> 02:13:28.220 is something that fascinates me.

NOTE Confidence: 0.92689719

02:13:28.570 --> 02:13:30.657 How does this stress response of

NOTE Confidence: 0.92689719

02:13:30.657 --> 02:13:32.770 the mom get through to the baby?

NOTE Confidence: 0.92689719

02:13:32.770 --> 02:13:34.685 And how can we get real time information

NOTE Confidence: 0.92689719

02:13:34.685 --> 02:13:37.190 on how the baby is affected?

NOTE Confidence: 0.92689719

02:13:37.190 --> 02:13:39.090 This is fundamentally a question

NOTE Confidence: 0.92689719

02:13:39.090 --> 02:13:42.202 about communication and through my PhD

NOTE Confidence: 0.92689719

02:13:42.202 --> 02:13:44.350 program I'll be able to investigate

NOTE Confidence: 0.92689719

02:13:44.421 --> 02:13:46.836 a novel signaling pathway that

NOTE Confidence: 0.92689719

02:13:46.836 --> 02:13:48.940 involves these tiny little cellular

NOTE Confidence: 0.8969693333333333

02:13:48.950 --> 02:13:51.930 packages called exosomes. These exosomes

NOTE Confidence: 0.9121428733333333

02:13:51.940 --> 02:13:53.465 are released from most cells

NOTE Confidence: 0.9121428733333333

02:13:53.465 --> 02:13:55.490 in the body and were previously

NOTE Confidence: 0.940176808

02:13:55.500 --> 02:13:56.700 thought to be waste products

NOTE Confidence: 0.87514941

02:13:56.710 --> 02:13:58.481 of the cell. Now we're learning  
NOTE Confidence: 0.87514941

02:13:58.481 --> 02:14:00.566 that they play a very critical role  
NOTE Confidence: 0.87514941

02:14:00.566 --> 02:14:02.630 in maternal fetal communication  
NOTE Confidence: 0.9619908333333333

02:14:02.630 --> 02:14:04.019 and general communication  
NOTE Confidence: 0.9619908333333333

02:14:04.020 --> 02:14:06.290 between cells. Through  
NOTE Confidence: 0.90193883

02:14:06.300 --> 02:14:07.710 this work we hope to better  
NOTE Confidence: 0.90193883

02:14:07.720 --> 02:14:10.384 understand why and how prenatal  
NOTE Confidence: 0.90193883

02:14:10.384 --> 02:14:12.320 stress effects child development.  
NOTE Confidence: 0.90193883

02:14:12.320 --> 02:14:14.440 By doing this, we hope to find ways to  
NOTE Confidence: 0.90193883

02:14:14.440 --> 02:14:16.378 identify and help those children who  
NOTE Confidence: 0.93149851

02:14:16.390 --> 02:14:18.700 are likely to be affected. Please  
NOTE Confidence: 0.8907672666666667

02:14:18.700 --> 02:14:21.220 come to my poster to learn more. I  
NOTE Confidence: 0.870273123636364

02:14:21.230 --> 02:14:24.240 want to say a special thank you to my Co  
NOTE Confidence: 0.870273123636364

02:14:24.322 --> 02:14:26.812 fellows members of the O'Donnell lab and  
NOTE Confidence: 0.870273123636364

02:14:26.812 --> 02:14:29.339 to leadership from my fellowship program.  
NOTE Confidence: 0.8669862866666667

02:14:29.350 --> 02:14:31.395 The T32 training and

NOTE Confidence: 0.866986286666667  
02:14:31.395 --> 02:14:33.100 Investigative Medicine program  
NOTE Confidence: 0.907234322222222  
02:14:33.380 --> 02:14:35.074 and also a special thank you to  
NOTE Confidence: 0.907234322222222  
02:14:35.074 --> 02:14:36.280 the associates for supporting  
NOTE Confidence: 0.956432233333333  
02:14:36.290 --> 02:14:39.400 the Faculty Development Fund. Thank you.  
NOTE Confidence: 0.877429802  
02:14:41.580 --> 02:14:44.370 Thank you so much Terra.  
NOTE Confidence: 0.877429802  
02:14:44.370 --> 02:14:46.818 May I now turn to Doctor Chen Reyes?  
NOTE Confidence: 0.8043693  
02:14:54.530 --> 02:14:55.789 Can everyone see my?  
NOTE Confidence: 0.853458946666667  
02:14:56.590 --> 02:14:59.330 Perfect your great great so  
NOTE Confidence: 0.949032456666667  
02:14:59.340 --> 02:15:00.786 I'm here to share about how  
NOTE Confidence: 0.83977697125  
02:15:00.800 --> 02:15:02.510 I raised the child at the  
NOTE Confidence: 0.83977697125  
02:15:02.510 --> 02:15:03.620 Yale Child Study Center.  
NOTE Confidence: 0.83977697125  
02:15:03.620 --> 02:15:05.188 In addition to my own children,  
NOTE Confidence: 0.879821948  
02:15:05.340 --> 02:15:07.600 I'll explain all these acronyms in  
NOTE Confidence: 0.879821948  
02:15:07.600 --> 02:15:12.390 a bit. So I my journey is rather  
NOTE Confidence: 0.81785469  
02:15:12.990 --> 02:15:14.430 unique and like different  
NOTE Confidence: 0.858261842

02:15:14.440 --> 02:15:16.237 from my colleagues. I traveled all  
NOTE Confidence: 0.858261842

02:15:16.237 --> 02:15:19.290 the way from Manila to New York City  
NOTE Confidence: 0.77077339

02:15:19.810 --> 02:15:21.635 during my PhD in applied  
NOTE Confidence: 0.77077339

02:15:21.635 --> 02:15:22.365 developmental science.  
NOTE Confidence: 0.77077339

02:15:22.370 --> 02:15:23.987 I was always enamored by the  
NOTE Confidence: 0.77077339

02:15:23.987 --> 02:15:26.700 idea of using science in  
NOTE Confidence: 0.9105123225

02:15:26.710 --> 02:15:27.782 the service of society,  
NOTE Confidence: 0.9105123225

02:15:27.782 --> 02:15:29.145 so it's really about using  
NOTE Confidence: 0.9105123225

02:15:29.145 --> 02:15:30.830 science to improve practice. But  
NOTE Confidence: 0.94009665

02:15:30.840 --> 02:15:32.750 in order to improve practice,  
NOTE Confidence: 0.950279375

02:15:32.900 --> 02:15:34.800 how do you inform policy to  
NOTE Confidence: 0.950279375

02:15:34.800 --> 02:15:38.270 sustain it? And so luckily there's  
NOTE Confidence: 0.830729441428571

02:15:38.280 --> 02:15:39.939 such a thing. As the Yellow Child  
NOTE Confidence: 0.719999566

02:15:39.950 --> 02:15:42.000 Study Center, the Zigler Center  
NOTE Confidence: 0.719999566

02:15:42.000 --> 02:15:42.948 in Child development social  
NOTE Confidence: 0.719999566

02:15:42.950 --> 02:15:47.169 policy unit that Ed Zigler was



NOTE Confidence: 0.830538086666667  
02:15:47.410 --> 02:15:48.469 a childhood hero  
NOTE Confidence: 0.847960235  
02:15:48.480 --> 02:15:49.308 of mine. When I  
NOTE Confidence: 0.951395638  
02:15:49.450 --> 02:15:52.032 saw it was just amazing to you know,  
NOTE Confidence: 0.951395638  
02:15:52.032 --> 02:15:54.040 you know for someone who comes from  
NOTE Confidence: 0.951395638  
02:15:54.040 --> 02:15:56.440 across the ocean to be working at  
NOTE Confidence: 0.951395638  
02:15:56.440 --> 02:15:58.325 someone's lab and working with  
NOTE Confidence: 0.951395638  
02:15:58.325 --> 02:16:00.439 tremendous people, so to speak.  
NOTE Confidence: 0.951395638  
02:16:00.440 --> 02:16:02.400 So I started working with  
NOTE Confidence: 0.951395638  
02:16:02.400 --> 02:16:05.490 Doctor Pia Brideau who's  
NOTE Confidence: 0.8550151  
02:16:05.500 --> 02:16:06.769 now at UNICEF  
NOTE Confidence: 0.782635925  
02:16:06.920 --> 02:16:08.428 working on Global E  
NOTE Confidence: 0.826353635  
02:16:08.460 --> 02:16:10.600 Early childhood development policy.  
NOTE Confidence: 0.97497483  
02:16:11.070 --> 02:16:12.060 When she left  
NOTE Confidence: 0.718189486  
02:16:12.170 --> 02:16:15.090 I I worked alongside Dr.  
NOTE Confidence: 0.718189486  
02:16:15.090 --> 02:16:16.858 Walter Gilliam and his work  
NOTE Confidence: 0.718189486

02:16:16.858 --> 02:16:18.380 on preschool expulsions,  
NOTE Confidence: 0.718189486

02:16:18.380 --> 02:16:21.320 and both these vendors have really  
NOTE Confidence: 0.718189486

02:16:21.320 --> 02:16:24.110 encouraged me to dream big and have  
NOTE Confidence: 0.718189486

02:16:24.110 --> 02:16:25.919 supported me throughout the years.  
NOTE Confidence: 0.8590147

02:16:27.700 --> 02:16:28.480 You know to develop  
NOTE Confidence: 0.9306789333333333

02:16:28.490 --> 02:16:29.639 my own career  
NOTE Confidence: 0.95370718

02:16:29.650 --> 02:16:33.980 path and I've always been dissatisfied  
NOTE Confidence: 0.95370718

02:16:33.980 --> 02:16:36.810 with the way we're measuring the quality  
NOTE Confidence: 0.95370718

02:16:36.810 --> 02:16:40.490 of how teachers foster social emotional  
NOTE Confidence: 0.947285836666667

02:16:40.490 --> 02:16:43.358 skills in early childhood classrooms. Like if  
NOTE Confidence: 0.95400339

02:16:43.370 --> 02:16:46.240 we were to believe what other measurement  
NOTE Confidence: 0.981067096666667

02:16:46.250 --> 02:16:48.680 tools are telling us, which is  
NOTE Confidence: 0.890739478

02:16:48.710 --> 02:16:51.790 we're actually doing really good in  
NOTE Confidence: 0.890739478

02:16:51.790 --> 02:16:54.220 the early education field in terms of  
NOTE Confidence: 0.890739478

02:16:54.220 --> 02:16:55.780 how we're supporting young children,  
NOTE Confidence: 0.8846871325

02:16:55.790 --> 02:16:59.090 social and emotional development? I know that

NOTE Confidence: 0.940934531666667

02:16:59.520 --> 02:17:01.260 that might be quite the stretch,

NOTE Confidence: 0.9385932425

02:17:01.290 --> 02:17:02.750 and so we developed

NOTE Confidence: 0.925931212222222

02:17:02.760 --> 02:17:04.595 the climate of healthy interactions

NOTE Confidence: 0.925931212222222

02:17:04.595 --> 02:17:06.063 for learning and development

NOTE Confidence: 0.905082375

02:17:06.260 --> 02:17:10.710 or the child tool. It's

NOTE Confidence: 0.905082375

02:17:10.710 --> 02:17:12.830 preliminarily a measurement tool,

NOTE Confidence: 0.905082375

02:17:12.830 --> 02:17:16.010 and it serves as a lens or organizing

NOTE Confidence: 0.96628974

02:17:16.020 --> 02:17:17.259 framework for assessing

NOTE Confidence: 0.94243136

02:17:17.270 --> 02:17:19.550 the quality of interactions that

NOTE Confidence: 0.924252056666667

02:17:19.560 --> 02:17:21.258 foster children. Social,

NOTE Confidence: 0.924252056666667

02:17:21.260 --> 02:17:23.370 emotional and holistic development.

NOTE Confidence: 0.896934126

02:17:23.940 --> 02:17:26.830 It's comprised of nine dimensions

NOTE Confidence: 0.95289699

02:17:26.840 --> 02:17:28.970 that make up this healthy environment.

NOTE Confidence: 0.95289699

02:17:28.970 --> 02:17:30.131 Correct price price.

NOTE Confidence: 0.95289699

02:17:30.131 --> 02:17:31.510 Antiquorum developmentally

NOTE Confidence: 0.894406707142857

02:17:31.520 --> 02:17:32.834 appropriate practice the  
NOTE Confidence: 0.894406707142857

02:17:32.834 --> 02:17:34.586 equitable treatment of children.  
NOTE Confidence: 0.894406707142857

02:17:34.590 --> 02:17:36.918 We focus on things not just on verbal  
NOTE Confidence: 0.89375085

02:17:36.930 --> 02:17:38.198 behaviors but a non  
NOTE Confidence: 0.723777898

02:17:38.210 --> 02:17:40.240 verbal and para verbal behaviors.  
NOTE Confidence: 0.9686167975

02:17:40.390 --> 02:17:42.790 We focus in addition to adult child  
NOTE Confidence: 0.9686167975

02:17:42.790 --> 02:17:44.098 interactions. We look at adult  
NOTE Confidence: 0.898068846666667

02:17:44.110 --> 02:17:45.688 to adult interactions.  
NOTE Confidence: 0.83774803

02:17:46.760 --> 02:17:48.648 And all these and the scores  
NOTE Confidence: 0.835322932

02:17:48.660 --> 02:17:50.080 are placed along a quality  
NOTE Confidence: 0.835322932

02:17:50.080 --> 02:17:52.270 spectrum of mental healthiness,  
NOTE Confidence: 0.883265160769231

02:17:52.810 --> 02:17:55.456 and we actually have data showing that  
NOTE Confidence: 0.883265160769231

02:17:55.456 --> 02:17:58.088 scores and the child are associated  
NOTE Confidence: 0.883265160769231

02:17:58.180 --> 02:18:00.300 with teachers adverse childhood  
NOTE Confidence: 0.97329689

02:18:00.300 --> 02:18:01.575 experiences. So those  
NOTE Confidence: 0.97329689

02:18:01.575 --> 02:18:03.630 teachers who experienced

NOTE Confidence: 0.9253318

02:18:03.640 --> 02:18:05.506 adversity in childhood having

NOTE Confidence: 0.9253318

02:18:05.506 --> 02:18:07.455 an incarcerated parent and

NOTE Confidence: 0.9253318

02:18:07.455 --> 02:18:08.640 experiencing emotional abuse,

NOTE Confidence: 0.9253318

02:18:08.640 --> 02:18:11.152 we found that their scores as

NOTE Confidence: 0.9253318

02:18:11.152 --> 02:18:12.880 teachers of young children were

NOTE Confidence: 0.9253318

02:18:12.880 --> 02:18:14.765 actually lower on the child tool.

NOTE Confidence: 0.9253318

02:18:14.765 --> 02:18:17.300 We also have emerging evidence

NOTE Confidence: 0.954206966666667

02:18:17.300 --> 02:18:18.479 showing that. For

NOTE Confidence: 0.854424864285714

02:18:18.490 --> 02:18:19.860 some, the child predict end

NOTE Confidence: 0.854424864285714

02:18:19.860 --> 02:18:22.980 of year, teacher turnover and

NOTE Confidence: 0.939892055

02:18:23.210 --> 02:18:24.710 something that's a little more

NOTE Confidence: 0.939892055

02:18:24.710 --> 02:18:26.218 exciting. But it's also emerging

NOTE Confidence: 0.924572537

02:18:26.230 --> 02:18:28.020 is that we're showing correlations

NOTE Confidence: 0.924572537

02:18:28.020 --> 02:18:29.810 between scores and the child

NOTE Confidence: 0.924572537

02:18:29.810 --> 02:18:31.694 and English language Learners

NOTE Confidence: 0.924572537

02:18:31.694 --> 02:18:33.870 language proficiency test scores.  
NOTE Confidence: 0.94657766

02:18:33.880 --> 02:18:35.420 So it's really, really exciting.  
NOTE Confidence: 0.877707774

02:18:36.440 --> 02:18:38.310 But the real power behind the  
NOTE Confidence: 0.877707774

02:18:38.310 --> 02:18:40.750 child tool is its utility,  
NOTE Confidence: 0.877707774

02:18:40.750 --> 02:18:42.120 and specifically in early  
NOTE Confidence: 0.978446905

02:18:42.130 --> 02:18:44.250 childhood mental health consultation. So  
NOTE Confidence: 0.943000253333333

02:18:44.250 --> 02:18:46.458 mental health consultation instead of pulling  
NOTE Confidence: 0.916444051428571

02:18:46.470 --> 02:18:48.020 out a child with severe  
NOTE Confidence: 0.916444051428571

02:18:48.020 --> 02:18:49.910 challenging behaviors. Out of the  
NOTE Confidence: 0.9023293

02:18:49.920 --> 02:18:51.744 preschool and bringing that child  
NOTE Confidence: 0.9023293

02:18:51.744 --> 02:18:53.488 into the clinic, what we're doing  
NOTE Confidence: 0.951117816666667

02:18:53.500 --> 02:18:54.289 is we're pulling  
NOTE Confidence: 0.96777731

02:18:54.300 --> 02:18:56.730 out the mental health professional  
NOTE Confidence: 0.96777731

02:18:56.730 --> 02:18:58.426 out of the clinic and into the  
NOTE Confidence: 0.96777731

02:18:58.426 --> 02:18:59.841 child's program, and so they use  
NOTE Confidence: 0.96777731

02:18:59.841 --> 02:19:01.808 the child tool as as an organizing

NOTE Confidence: 0.9536072775  
02:19:01.820 --> 02:19:05.390 framework for their consultation. We found  
NOTE Confidence: 0.889181613333333  
02:19:05.450 --> 02:19:06.530 in a recent  
NOTE Confidence: 0.956857925  
02:19:07.590 --> 02:19:09.390 study that was published  
NOTE Confidence: 0.89818365  
02:19:10.330 --> 02:19:12.280 that child informed  
NOTE Confidence: 0.910209953333333  
02:19:12.310 --> 02:19:15.430 early child mental health consultation does  
NOTE Confidence: 0.903766065  
02:19:15.440 --> 02:19:17.008 work, and what's powerful  
NOTE Confidence: 0.972945408  
02:19:17.020 --> 02:19:18.770 about this study is that.  
NOTE Confidence: 0.972945408  
02:19:18.770 --> 02:19:20.910 Not only did we find effects  
NOTE Confidence: 0.972945408  
02:19:20.910 --> 02:19:22.400 on the children who prompted  
NOTE Confidence: 0.95768054  
02:19:22.410 --> 02:19:23.498 the need for services  
NOTE Confidence: 0.944402344  
02:19:23.510 --> 02:19:25.120 in the first place, but  
NOTE Confidence: 0.891301922  
02:19:25.130 --> 02:19:27.500 we found a horizontal diffusion  
NOTE Confidence: 0.91435366  
02:19:27.510 --> 02:19:28.359 of effects such  
NOTE Confidence: 0.935578752  
02:19:28.370 --> 02:19:30.206 that it affected all the other  
NOTE Confidence: 0.935578752  
02:19:30.206 --> 02:19:31.430 children in that classroom,  
NOTE Confidence: 0.935578752

02:19:31.430 --> 02:19:33.280 not just the children, not just the child,  
NOTE Confidence: 0.935578752

02:19:33.280 --> 02:19:35.870 with presenting problems, and arguably  
NOTE Confidence: 0.941864416666667

02:19:35.870 --> 02:19:37.966 because we're changing teaching practices.  
NOTE Confidence: 0.941864416666667

02:19:37.966 --> 02:19:40.334 We might find vertical diffusion  
NOTE Confidence: 0.941864416666667

02:19:40.334 --> 02:19:41.990 of effects such that future  
NOTE Confidence: 0.941864416666667

02:19:41.990 --> 02:19:44.078 generations of children who will be  
NOTE Confidence: 0.905140786666667

02:19:44.400 --> 02:19:46.890 under the that particular teacher  
NOTE Confidence: 0.905140786666667

02:19:46.890 --> 02:19:49.896 will also benefit as a result.  
NOTE Confidence: 0.905140786666667

02:19:49.900 --> 02:19:52.258 Uhm, so where we are now?  
NOTE Confidence: 0.905140786666667

02:19:52.260 --> 02:19:54.571 You know, again, solely by word of mouth.  
NOTE Confidence: 0.905140786666667

02:19:54.571 --> 02:19:57.037 You know we have zero marketing.  
NOTE Confidence: 0.905140786666667

02:19:57.040 --> 02:20:00.380 We are in 21 child friendly states  
NOTE Confidence: 0.905140786666667

02:20:00.380 --> 02:20:03.632 with a couple more pending plus Canada  
NOTE Confidence: 0.905140786666667

02:20:03.632 --> 02:20:06.068 and we're being used in a variety  
NOTE Confidence: 0.898789092222222

02:20:06.080 --> 02:20:07.780 of ways either in statewide  
NOTE Confidence: 0.898789092222222

02:20:07.780 --> 02:20:10.020 efforts or in these independent



NOTE Confidence: 0.898789092222222

02:20:10.020 --> 02:20:12.040 requests for for training.

NOTE Confidence: 0.9692713

02:20:13.390 --> 02:20:14.880 But I wanted to focus specifically

NOTE Confidence: 0.9692713

02:20:14.880 --> 02:20:16.519 in New York City because we

NOTE Confidence: 0.93450003

02:20:16.530 --> 02:20:19.295 are now in the midst of an

NOTE Confidence: 0.93450003

02:20:19.295 --> 02:20:21.880 opportunity for statewide diffusion

NOTE Confidence: 0.93450003

02:20:21.880 --> 02:20:24.270 of the infant toddler child,

NOTE Confidence: 0.93450003

02:20:24.270 --> 02:20:26.850 so that focuses on children zero to three,

NOTE Confidence: 0.93450003

02:20:26.850 --> 02:20:28.552 but in particular, in family,

NOTE Confidence: 0.93450003

02:20:28.552 --> 02:20:30.196 family, child care settings,

NOTE Confidence: 0.94142232

02:20:30.410 --> 02:20:32.238 serving infants and toddlers

NOTE Confidence: 0.91504538

02:20:32.250 --> 02:20:33.830 in neighborhoods with high poverty

NOTE Confidence: 0.8957994975

02:20:33.840 --> 02:20:35.200 rates. So it's neighborhoods

NOTE Confidence: 0.8957994975

02:20:35.200 --> 02:20:37.900 that. Programs that serve

NOTE Confidence: 0.8719983325

02:20:37.910 --> 02:20:39.238 mostly children of color.

NOTE Confidence: 0.8719983325

02:20:39.240 --> 02:20:39.850 Immigrant children.

NOTE Confidence: 0.8719983325

02:20:39.850 --> 02:20:41.882 You know, addressing all their  
NOTE Confidence: 0.8719983325

02:20:41.882 --> 02:20:43.598 linguistic barriers and we're working  
NOTE Confidence: 0.8719983325

02:20:43.600 --> 02:20:46.022 closely with the State Office of  
NOTE Confidence: 0.8719983325

02:20:46.022 --> 02:20:48.930 Children and Families Services.  
NOTE Confidence: 0.8719983325

02:20:48.930 --> 02:20:53.310 So right now we are in the RCT phase.  
NOTE Confidence: 0.8719983325

02:20:53.310 --> 02:20:55.155 We're in the process of  
NOTE Confidence: 0.8719983325

02:20:55.155 --> 02:20:57.490 recruiting and recruitment  
NOTE Confidence: 0.944922475

02:20:57.490 --> 02:20:59.880 and then statewide diffusion. Hopefully  
NOTE Confidence: 0.947233388

02:20:59.890 --> 02:21:01.520 by the end of 2025,  
NOTE Confidence: 0.8995659325

02:21:01.530 --> 02:21:02.790 we're able to reach,  
NOTE Confidence: 0.849993808

02:21:02.820 --> 02:21:04.100 you know, all the children,  
NOTE Confidence: 0.906363885555555

02:21:04.110 --> 02:21:05.190 all the infants and toddlers  
NOTE Confidence: 0.906363885555555

02:21:05.190 --> 02:21:06.054 that are being served  
NOTE Confidence: 0.97861865

02:21:06.070 --> 02:21:07.438 by these different programs.  
NOTE Confidence: 0.86061585

02:21:09.180 --> 02:21:10.660 So the Child  
NOTE Confidence: 0.933218046666667

02:21:10.660 --> 02:21:13.060 Study Center is the home of the child

NOTE Confidence: 0.933218046666667

02:21:13.060 --> 02:21:15.670 and I am but one tiny individual in

NOTE Confidence: 0.753301776

02:21:15.680 --> 02:21:17.720 a sea of esteemed colleagues who

NOTE Confidence: 0.753301776

02:21:17.720 --> 02:21:19.746 all work toward you. Know a common

NOTE Confidence: 0.91500696

02:21:19.760 --> 02:21:21.986 goal, and we have dedicated staff

NOTE Confidence: 0.92494006

02:21:22.040 --> 02:21:23.810 who work just as hard, if not

NOTE Confidence: 0.92494006

02:21:23.810 --> 02:21:25.750 harder than we do. So it's been

NOTE Confidence: 0.947430044

02:21:25.760 --> 02:21:27.140 a pleasure to work here

NOTE Confidence: 0.947430044

02:21:27.140 --> 02:21:28.292 and to the associates.

NOTE Confidence: 0.947430044

02:21:28.292 --> 02:21:29.888 Thank you so much for supporting the

NOTE Confidence: 0.931241692

02:21:29.900 --> 02:21:31.540 work that we collectively do.

NOTE Confidence: 0.954729782

02:21:33.360 --> 02:21:35.986 Thank you so much, Jeff. Thank you.

NOTE Confidence: 0.954729782

02:21:35.986 --> 02:21:38.650 I love the picture on that last slide.

NOTE Confidence: 0.954729782

02:21:38.650 --> 02:21:42.277 Uhm, so may I turn to Doctor Alsip too.

NOTE Confidence: 0.954729782

02:21:42.280 --> 02:21:45.160 Bring us bring us home. Thank

NOTE Confidence: 0.82329065375

02:21:45.170 --> 02:21:46.986 you Doctor Mays since I'm the last speaker.

NOTE Confidence: 0.82329065375

02:21:46.990 --> 02:21:50.434 I'll hold you all hostage but now I'm happy  
NOTE Confidence: 0.82329065375

02:21:50.434 --> 02:21:52.973 to share a little bit about my journey in  
NOTE Confidence: 0.82329065375

02:21:52.973 --> 02:21:55.441 science and why I'm so excited to be at  
NOTE Confidence: 0.82329065375

02:21:55.441 --> 02:21:57.400 a place like a Yale and to do research  
NOTE Confidence: 0.82329065375

02:21:57.400 --> 02:21:59.491 in the Child Study Center. As a child.  
NOTE Confidence: 0.82329065375

02:21:59.491 --> 02:22:02.082 I was really curious and so I feel like I  
NOTE Confidence: 0.82329065375

02:22:02.082 --> 02:22:04.610 was always into sign from a very young age.  
NOTE Confidence: 0.82329065375

02:22:04.610 --> 02:22:07.451 I was into the ability to be creative, so  
NOTE Confidence: 0.82329065375

02:22:07.451 --> 02:22:10.179 music was another really big passion of mine.  
NOTE Confidence: 0.82329065375

02:22:10.180 --> 02:22:12.196 Eventually that led me to North  
NOTE Confidence: 0.82329065375

02:22:12.196 --> 02:22:13.772 Carolina Central University, where I  
NOTE Confidence: 0.82329065375

02:22:13.772 --> 02:22:15.739 majored in biology and minored in jazz.  
NOTE Confidence: 0.82329065375

02:22:15.740 --> 02:22:17.876 That he's a philosophy played on the tennis  
NOTE Confidence: 0.82329065375

02:22:17.876 --> 02:22:19.969 team really got a chance to explore myself,  
NOTE Confidence: 0.82329065375

02:22:19.970 --> 02:22:22.259 but importantly got some mentorship there and  
NOTE Confidence: 0.82329065375

02:22:22.259 --> 02:22:24.937 got into basic science research at that time.

NOTE Confidence: 0.82329065375

02:22:24.940 --> 02:22:26.956 I was doing molecular cancer biology and

NOTE Confidence: 0.82329065375

02:22:26.956 --> 02:22:29.459 went to my first scientific conference.

NOTE Confidence: 0.82329065375

02:22:29.460 --> 02:22:31.876 Had a chance to participate in a summer

NOTE Confidence: 0.82329065375

02:22:31.876 --> 02:22:33.916 research program and I was really hooked

NOTE Confidence: 0.82329065375

02:22:33.916 --> 02:22:36.144 on science and academia and the idea that

NOTE Confidence: 0.82329065375

02:22:36.144 --> 02:22:38.596 we could take basic science and use it to

NOTE Confidence: 0.82329065375

02:22:38.596 --> 02:22:40.682 actually make a difference for people in

NOTE Confidence: 0.82329065375

02:22:40.682 --> 02:22:43.162 the clinic and in the community so that

NOTE Confidence: 0.82329065375

02:22:43.162 --> 02:22:45.750 eventually took me to do and MD PhD program.

NOTE Confidence: 0.82329065375

02:22:45.750 --> 02:22:48.324 And I was really fortunate to get a PhD

NOTE Confidence: 0.82329065375

02:22:48.324 --> 02:22:50.467 training with Katie in the Department

NOTE Confidence: 0.82329065375

02:22:50.467 --> 02:22:52.804 of Brain and Cognitive Sciences at MIT.

NOTE Confidence: 0.82329065375

02:22:52.804 --> 02:22:54.980 And at that time I got really interested

NOTE Confidence: 0.82329065375

02:22:55.040 --> 02:22:57.352 in this idea of how does the brain

NOTE Confidence: 0.82329065375

02:22:57.352 --> 02:22:58.670 represent social information?

NOTE Confidence: 0.82329065375

02:22:58.670 --> 02:23:01.323 How is that biased to produce different  
NOTE Confidence: 0.82329065375

02:23:01.323 --> 02:23:03.630 behaviors like empathy versus aggression?  
NOTE Confidence: 0.82329065375

02:23:03.630 --> 02:23:05.240 And then how do those sorts of  
NOTE Confidence: 0.82329065375

02:23:05.240 --> 02:23:05.930 processes go wrong?  
NOTE Confidence: 0.82329065375

02:23:05.930 --> 02:23:08.630 And a lot of different psychiatric  
NOTE Confidence: 0.82329065375

02:23:08.630 --> 02:23:10.430 conditions at that time.  
NOTE Confidence: 0.82329065375

02:23:10.430 --> 02:23:11.134 When we looked at,  
NOTE Confidence: 0.82329065375

02:23:11.134 --> 02:23:12.760 you know this idea of the social brain.  
NOTE Confidence: 0.82329065375

02:23:12.760 --> 02:23:13.752 It was really confusing  
NOTE Confidence: 0.82329065375

02:23:13.752 --> 02:23:14.992 and it still is there.  
NOTE Confidence: 0.82329065375

02:23:15.000 --> 02:23:16.060 All these different brain.  
NOTE Confidence: 0.82329065375

02:23:16.060 --> 02:23:17.385 Regions all these different networks.  
NOTE Confidence: 0.82329065375

02:23:17.390 --> 02:23:19.287 Some of them are involved in social  
NOTE Confidence: 0.82329065375

02:23:19.287 --> 02:23:21.288 and non social behaviors and so  
NOTE Confidence: 0.82329065375

02:23:21.288 --> 02:23:23.163 we became really reductionist at  
NOTE Confidence: 0.82329065375

02:23:23.163 --> 02:23:24.840 without approaching Rascal and said,

NOTE Confidence: 0.82329065375  
02:23:24.840 --> 02:23:26.976 let's isolate one circuit and understand  
NOTE Confidence: 0.82329065375  
02:23:26.976 --> 02:23:29.030 what does this circuit represent?  
NOTE Confidence: 0.82329065375  
02:23:29.030 --> 02:23:30.878 What kind of behavior is it driving?  
NOTE Confidence: 0.82329065375  
02:23:30.880 --> 02:23:31.165 Then?  
NOTE Confidence: 0.82329065375  
02:23:31.165 --> 02:23:32.590 Maybe connect that to downstream  
NOTE Confidence: 0.82329065375  
02:23:32.590 --> 02:23:34.259 circuit and from there start to  
NOTE Confidence: 0.82329065375  
02:23:34.259 --> 02:23:35.925 build up an idea of how social  
NOTE Confidence: 0.82329065375  
02:23:35.925 --> 02:23:37.198 information is being represented,  
NOTE Confidence: 0.82329065375  
02:23:37.200 --> 02:23:38.235 integrated and computed  
NOTE Confidence: 0.82329065375  
02:23:38.235 --> 02:23:39.615 on throughout the brain.  
NOTE Confidence: 0.82329065375  
02:23:39.620 --> 02:23:41.948 And we focus on a very  
NOTE Confidence: 0.82329065375  
02:23:41.948 --> 02:23:43.112 evolutionarily conserved behavior.  
NOTE Confidence: 0.82329065375  
02:23:43.120 --> 02:23:43.658 Social learning.  
NOTE Confidence: 0.82329065375  
02:23:43.658 --> 02:23:45.272 How does one animal learn about  
NOTE Confidence: 0.82329065375  
02:23:45.272 --> 02:23:46.399 the environment from another?  
NOTE Confidence: 0.82329065375

02:23:46.400 --> 02:23:48.248 Animal we've we were able to show that  
NOTE Confidence: 0.82329065375

02:23:48.248 --> 02:23:50.399 there's a circuit from the cortex they made.  
NOTE Confidence: 0.82329065375

02:23:50.400 --> 02:23:50.806 Oh,  
NOTE Confidence: 0.82329065375

02:23:50.806 --> 02:23:52.430 that's really important for  
NOTE Confidence: 0.82329065375

02:23:52.430 --> 02:23:53.648 representing social information  
NOTE Confidence: 0.82329065375

02:23:53.648 --> 02:23:55.440 during this kind of learning.  
NOTE Confidence: 0.82329065375

02:23:55.440 --> 02:23:57.320 From there I stayed to do a postdoc,  
NOTE Confidence: 0.82329065375

02:23:57.320 --> 02:23:58.610 'cause I was really interested in  
NOTE Confidence: 0.82329065375

02:23:58.610 --> 02:24:00.105 how we could use machine learning  
NOTE Confidence: 0.82329065375

02:24:00.105 --> 02:24:01.585 approaches to better understand the  
NOTE Confidence: 0.82329065375

02:24:01.585 --> 02:24:03.339 neural data that we were looking at.  
NOTE Confidence: 0.82329065375

02:24:03.340 --> 02:24:04.618 But there was something a little  
NOTE Confidence: 0.82329065375

02:24:04.620 --> 02:24:05.900 bit dissatisfying,  
NOTE Confidence: 0.82329065375

02:24:05.900 --> 02:24:09.100 with only working with mice,  
NOTE Confidence: 0.82329065375

02:24:09.100 --> 02:24:11.422 and I knew that I wanted that human touch.  
NOTE Confidence: 0.82329065375

02:24:11.430 --> 02:24:12.520 So after my post Doc,



NOTE Confidence: 0.82329065375

02:24:12.520 --> 02:24:14.270 I returned to Med school,

NOTE Confidence: 0.82329065375

02:24:14.270 --> 02:24:16.706 finished the MD PhD program and really.

NOTE Confidence: 0.912738058333333

02:24:16.710 --> 02:24:18.360 Decided to pursue clinical training

NOTE Confidence: 0.912738058333333

02:24:18.360 --> 02:24:20.242 inside in psychiatry and wanted to

NOTE Confidence: 0.912738058333333

02:24:20.242 --> 02:24:21.835 be in a place where I felt like I

NOTE Confidence: 0.912738058333333

02:24:21.890 --> 02:24:23.962 could be creative where I could bring

NOTE Confidence: 0.912738058333333

02:24:23.962 --> 02:24:25.430 these different things together and

NOTE Confidence: 0.912738058333333

02:24:25.430 --> 02:24:27.170 begin to understand how to really

NOTE Confidence: 0.912738058333333

02:24:27.170 --> 02:24:29.209 apply some of the things that I was

NOTE Confidence: 0.912738058333333

02:24:29.209 --> 02:24:30.710 learning in the mouse to people.

NOTE Confidence: 0.912738058333333

02:24:30.710 --> 02:24:32.742 So I was really excited when I was

NOTE Confidence: 0.912738058333333

02:24:32.742 --> 02:24:35.900 able to come here as a resident in the

NOTE Confidence: 0.912738058333333

02:24:35.900 --> 02:24:37.403 Neuroscience Research training program

NOTE Confidence: 0.912738058333333

02:24:37.403 --> 02:24:39.692 which gave me the opportunity to not

NOTE Confidence: 0.912738058333333

02:24:39.692 --> 02:24:41.223 only keep my research trajectory,

NOTE Confidence: 0.912738058333333

02:24:41.223 --> 02:24:43.568 but to begin to learn new tools so

NOTE Confidence: 0.912738058333333

02:24:43.568 --> 02:24:45.325 I could ask some of these questions

NOTE Confidence: 0.912738058333333

02:24:45.330 --> 02:24:46.410 in humans as well.

NOTE Confidence: 0.912738058333333

02:24:46.410 --> 02:24:48.415 And so I started off looking at

NOTE Confidence: 0.912738058333333

02:24:48.415 --> 02:24:50.050 very basic behaviors and animals

NOTE Confidence: 0.912738058333333

02:24:50.050 --> 02:24:51.880 and looking at neural signals.

NOTE Confidence: 0.912738058333333

02:24:51.880 --> 02:24:54.099 Now we have the tools using things

NOTE Confidence: 0.912738058333333

02:24:54.099 --> 02:24:55.549 like functional near infrared

NOTE Confidence: 0.912738058333333

02:24:55.549 --> 02:24:56.848 spectroscopy and EEG.

NOTE Confidence: 0.912738058333333

02:24:56.850 --> 02:24:58.386 And in the Mcpartland that we're

NOTE Confidence: 0.912738058333333

02:24:58.386 --> 02:25:00.501 able to use brain stimulation to ask

NOTE Confidence: 0.912738058333333

02:25:00.501 --> 02:25:02.221 how are these social representations

NOTE Confidence: 0.912738058333333

02:25:02.221 --> 02:25:03.320 changing in humans?

NOTE Confidence: 0.912738058333333

02:25:03.320 --> 02:25:04.880 We can then apply machine learning

NOTE Confidence: 0.912738058333333

02:25:04.880 --> 02:25:07.080 tools to ask how these things similar

NOTE Confidence: 0.912738058333333

02:25:07.080 --> 02:25:09.194 and where are they different in terms

NOTE Confidence: 0.912738058333333

02:25:09.194 --> 02:25:10.430 of computational strategies that

NOTE Confidence: 0.912738058333333

02:25:10.430 --> 02:25:12.128 their brain is using to represent

NOTE Confidence: 0.912738058333333

02:25:12.128 --> 02:25:13.571 social information and all of this

NOTE Confidence: 0.912738058333333

02:25:13.571 --> 02:25:15.085 is kind of with the gear of how

NOTE Confidence: 0.912738058333333

02:25:15.085 --> 02:25:16.800 do we then take this to build?

NOTE Confidence: 0.912738058333333

02:25:16.800 --> 02:25:18.328 Clinical and community interventions.

NOTE Confidence: 0.912738058333333

02:25:18.328 --> 02:25:20.620 I'm really grateful to be at

NOTE Confidence: 0.912738058333333

02:25:20.687 --> 02:25:22.367 the young Child Space Center,

NOTE Confidence: 0.912738058333333

02:25:22.370 --> 02:25:24.314 'cause I really found it to be a place

NOTE Confidence: 0.912738058333333

02:25:24.314 --> 02:25:26.062 where the kinds of discoveries that

NOTE Confidence: 0.912738058333333

02:25:26.062 --> 02:25:27.909 were making can really inspire other

NOTE Confidence: 0.912738058333333

02:25:27.909 --> 02:25:29.805 care that we're delivering to patients.

NOTE Confidence: 0.912738058333333

02:25:29.810 --> 02:25:31.686 So thank you all for being here

NOTE Confidence: 0.912738058333333

02:25:31.686 --> 02:25:33.309 and for listening to my talking.

NOTE Confidence: 0.912738058333333

02:25:33.310 --> 02:25:34.218 All the other talks.

NOTE Confidence: 0.914406266666667

02:25:35.420 --> 02:25:36.892 Thank you so much.  
NOTE Confidence: 0.914406266666667

02:25:36.892 --> 02:25:39.910 So while we are we are at 4:30,  
NOTE Confidence: 0.914406266666667

02:25:39.910 --> 02:25:42.743 I think all of us are very willing  
NOTE Confidence: 0.914406266666667

02:25:42.743 --> 02:25:45.161 and eager to actually stay and  
NOTE Confidence: 0.914406266666667

02:25:45.161 --> 02:25:47.290 take any questions in the chat.  
NOTE Confidence: 0.914406266666667

02:25:47.290 --> 02:25:48.850 Any questions from the audience?  
NOTE Confidence: 0.914406266666667

02:25:48.850 --> 02:25:50.982 We just really appreciate  
NOTE Confidence: 0.914406266666667

02:25:50.982 --> 02:25:53.114 your joining us virtually.  
NOTE Confidence: 0.914406266666667

02:25:53.120 --> 02:25:55.090 And the let's let's see  
NOTE Confidence: 0.914406266666667

02:25:55.090 --> 02:25:56.666 if people have questions.  
NOTE Confidence: 0.914406266666667

02:25:56.670 --> 02:25:58.050 We will monitor the chat as  
NOTE Confidence: 0.914406266666667

02:25:58.050 --> 02:25:59.419 well as just listen for you.  
NOTE Confidence: 0.7644038

02:26:11.050 --> 02:26:12.418 Learn to thank you and the team.  
NOTE Confidence: 0.950040795

02:26:12.420 --> 02:26:13.564 It's been a wonderful  
NOTE Confidence: 0.950040795

02:26:13.564 --> 02:26:15.280 way to spend 2 1/2 hours.  
NOTE Confidence: 0.8800238425

02:26:15.450 --> 02:26:16.632 Well thank you K. Thank you

NOTE Confidence: 0.8800238425  
02:26:16.632 --> 02:26:17.819 so much for being with us.  
NOTE Confidence: 0.91102544375  
02:26:21.170 --> 02:26:23.809 I also want to thank all the  
NOTE Confidence: 0.91102544375  
02:26:23.809 --> 02:26:26.230 underachievers on this zoom.  
NOTE Confidence: 0.91102544375  
02:26:26.230 --> 02:26:30.000 It's a wonderful, wonderful afternoon  
NOTE Confidence: 0.829339106  
02:26:30.010 --> 02:26:32.805 and very, very exciting to  
NOTE Confidence: 0.829339106  
02:26:32.805 --> 02:26:35.600 hear and see what everybody  
NOTE Confidence: 0.683962406666667  
02:26:35.610 --> 02:26:38.806 is doing, how and and and  
NOTE Confidence: 0.683962406666667  
02:26:38.806 --> 02:26:40.180 there are a lot of new  
NOTE Confidence: 0.908938001538462  
02:26:40.190 --> 02:26:43.262 people that I haven't met before and that's  
NOTE Confidence: 0.908938001538462  
02:26:43.262 --> 02:26:46.364 also exciting to and so to the new ones.  
NOTE Confidence: 0.908938001538462  
02:26:46.364 --> 02:26:49.430 Welcome and and so glad you made  
NOTE Confidence: 0.908938001538462  
02:26:49.530 --> 02:26:53.350 Yale your home. OK, yeah, we also  
NOTE Confidence: 0.887432416666667  
02:26:53.360 --> 02:26:55.472 had thank you Ari.  
NOTE Confidence: 0.887432416666667  
02:26:55.472 --> 02:26:58.640 We also had some questions submitted  
NOTE Confidence: 0.887432416666667  
02:26:58.738 --> 02:27:02.098 earlier which I can open up to the.  
NOTE Confidence: 0.887432416666667

02:27:02.100 --> 02:27:03.600 To the audience or or not,  
NOTE Confidence: 0.887432416666667

02:27:03.600 --> 02:27:05.898 to the audience to our speakers?  
NOTE Confidence: 0.887432416666667

02:27:05.900 --> 02:27:07.190 Susanna, do you have here?  
NOTE Confidence: 0.887432416666667

02:27:07.190 --> 02:27:10.564 I've got the so one was asked if  
NOTE Confidence: 0.887432416666667

02:27:10.564 --> 02:27:12.448 they were very interested to learn  
NOTE Confidence: 0.887432416666667

02:27:12.448 --> 02:27:14.296 about the clinical utility of  
NOTE Confidence: 0.887432416666667

02:27:14.296 --> 02:27:15.980 genetic screening and individuals  
NOTE Confidence: 0.887432416666667

02:27:15.980 --> 02:27:17.664 with autism spectrum disorder.  
NOTE Confidence: 0.887432416666667

02:27:17.670 --> 02:27:20.380 Uhm and.  
NOTE Confidence: 0.887432416666667

02:27:20.380 --> 02:27:22.480 Any any element or anybody  
NOTE Confidence: 0.887432416666667

02:27:22.480 --> 02:27:24.580 want to address that one?  
NOTE Confidence: 0.74120003

02:27:27.350 --> 02:27:28.858 Charge 1 happy to  
NOTE Confidence: 0.776531426666667

02:27:28.870 --> 02:27:31.754 say something. I think I'm Tom Hernandez  
NOTE Confidence: 0.776531426666667

02:27:31.754 --> 02:27:34.410 could also comment on this as well.  
NOTE Confidence: 0.776531426666667

02:27:34.410 --> 02:27:38.150 I think that there's there's some sort of  
NOTE Confidence: 0.776531426666667

02:27:38.150 --> 02:27:42.458 an increasing need for doing more genetic

NOTE Confidence: 0.776531426666667  
02:27:42.458 --> 02:27:44.848 screens in individuals with autism.  
NOTE Confidence: 0.776531426666667  
02:27:44.850 --> 02:27:47.462 I think that there's more of an  
NOTE Confidence: 0.776531426666667  
02:27:47.462 --> 02:27:50.605 availability now of the ability to  
NOTE Confidence: 0.776531426666667  
02:27:50.605 --> 02:27:52.857 identify risk genes and affected  
NOTE Confidence: 0.776531426666667  
02:27:52.857 --> 02:27:55.720 individuals so the cost of being able  
NOTE Confidence: 0.776531426666667  
02:27:55.795 --> 02:27:58.280 to do what we call xom sequencing.  
NOTE Confidence: 0.776531426666667  
02:27:58.280 --> 02:28:01.185 This coming down and so now we  
NOTE Confidence: 0.776531426666667  
02:28:01.185 --> 02:28:03.208 have the ability to do this and  
NOTE Confidence: 0.776531426666667  
02:28:03.208 --> 02:28:04.730 implement this at the clinic.  
NOTE Confidence: 0.776531426666667  
02:28:04.730 --> 02:28:06.935 I think one of the challenges is  
NOTE Confidence: 0.776531426666667  
02:28:06.935 --> 02:28:09.502 that even if we do identify a gene  
NOTE Confidence: 0.776531426666667  
02:28:09.502 --> 02:28:11.458 that's associated with autism,  
NOTE Confidence: 0.776531426666667  
02:28:11.458 --> 02:28:14.138 there's that still doesn't necessarily  
NOTE Confidence: 0.776531426666667  
02:28:14.138 --> 02:28:16.398 translate into a new treatment.  
NOTE Confidence: 0.776531426666667  
02:28:16.400 --> 02:28:18.269 And so I think that's still very  
NOTE Confidence: 0.776531426666667

02:28:18.269 --> 02:28:20.049 much at the research stage.  
NOTE Confidence: 0.776531426666667

02:28:20.050 --> 02:28:21.787 And so I think we need to do more  
NOTE Confidence: 0.776531426666667

02:28:21.787 --> 02:28:23.766 work to really be able to make  
NOTE Confidence: 0.776531426666667

02:28:23.766 --> 02:28:24.922 those findings more meaningful.  
NOTE Confidence: 0.776531426666667

02:28:24.930 --> 02:28:26.445 I think there's so meaningful  
NOTE Confidence: 0.776531426666667

02:28:26.445 --> 02:28:27.657 at the research level,  
NOTE Confidence: 0.776531426666667

02:28:27.660 --> 02:28:30.320 but I think we still have more work to do.  
NOTE Confidence: 0.776531426666667

02:28:30.320 --> 02:28:32.693 Had to really translate that to a  
NOTE Confidence: 0.776531426666667

02:28:32.693 --> 02:28:34.516 new treatment at the clinical level,  
NOTE Confidence: 0.776531426666667

02:28:34.516 --> 02:28:36.405 but I think I think Tommy could  
NOTE Confidence: 0.776531426666667

02:28:36.405 --> 02:28:38.270 probably comment more on implementing.  
NOTE Confidence: 0.870117985

02:28:39.790 --> 02:28:41.740 Sure, no, I think the question  
NOTE Confidence: 0.870117985

02:28:41.740 --> 02:28:43.530 used the words of clinical  
NOTE Confidence: 0.870117985

02:28:43.530 --> 02:28:45.520 utility, and I think that's  
NOTE Confidence: 0.912661172

02:28:45.530 --> 02:28:47.400 there's an important distinction there where  
NOTE Confidence: 0.75029285

02:28:47.920 --> 02:28:49.220 you know to date



NOTE Confidence: 0.861991176666667  
02:28:49.230 --> 02:28:50.940 the clinical recommendations  
NOTE Confidence: 0.861991176666667  
02:28:50.950 --> 02:28:52.770 for screening. If  
NOTE Confidence: 0.889591623333333  
02:28:52.770 --> 02:28:54.300 an autism spectrum disorder  
NOTE Confidence: 0.906861326666667  
02:28:54.580 --> 02:28:56.020 is suspected, really  
NOTE Confidence: 0.8780786  
02:28:56.030 --> 02:28:56.939 goes after the  
NOTE Confidence: 0.77857894  
02:28:56.950 --> 02:28:58.099 low hanging fruit.  
NOTE Confidence: 0.843306858333333  
02:28:58.110 --> 02:28:59.118 I guess I'll say of the  
NOTE Confidence: 0.8033047875  
02:28:59.400 --> 02:29:01.085 genetic on the genetic spectrum,  
NOTE Confidence: 0.8033047875  
02:29:01.085 --> 02:29:04.220 the larger deletions or duplications  
NOTE Confidence: 0.903042605  
02:29:04.220 --> 02:29:05.930 which are really clearly clearly  
NOTE Confidence: 0.903042605  
02:29:05.930 --> 02:29:08.550 and were some of the first genetic  
NOTE Confidence: 0.903042605  
02:29:08.550 --> 02:29:11.130 mutations that were. Linked with autism  
NOTE Confidence: 0.9819656  
02:29:11.140 --> 02:29:12.670 spectrum disorders and  
NOTE Confidence: 0.956098258  
02:29:12.680 --> 02:29:14.928 so that still makes sense, but we're getting  
NOTE Confidence: 0.898900515  
02:29:14.940 --> 02:29:15.908 to the point. And  
NOTE Confidence: 0.814610486

02:29:15.920 --> 02:29:17.470 we're at the point of. Quite  
NOTE Confidence: 0.95739605

02:29:17.480 --> 02:29:19.560 frankly, I think where  
NOTE Confidence: 0.95739605

02:29:19.560 --> 02:29:20.850 we should be looking at a  
NOTE Confidence: 0.803441028333333

02:29:21.020 --> 02:29:23.018 with a little bit higher resolution.  
NOTE Confidence: 0.803441028333333

02:29:23.020 --> 02:29:27.340 So looking at genetic sequencing,  
NOTE Confidence: 0.466799756666667

02:29:25.790 --> 02:29:26.549 you know Alan.  
NOTE Confidence: 0.71095828

02:29:26.560 --> 02:29:27.328 You presented your  
NOTE Confidence: 0.83898351

02:29:27.340 --> 02:29:28.372 work today on sequencing.  
NOTE Confidence: 0.83898351

02:29:28.372 --> 02:29:29.662 Emily presented her work on  
NOTE Confidence: 0.897760493333333

02:29:29.680 --> 02:29:34.070 sequencing. We can identify.  
NOTE Confidence: 0.897760493333333

02:29:34.070 --> 02:29:36.288 Various point mutations in  
NOTE Confidence: 0.897760493333333

02:29:36.288 --> 02:29:38.278 genes that we can predict  
NOTE Confidence: 0.85193426

02:29:38.290 --> 02:29:39.682 and even gone to study in  
NOTE Confidence: 0.85193426

02:29:39.682 --> 02:29:41.860 the lab will actually damage  
NOTE Confidence: 0.851684542

02:29:41.870 --> 02:29:44.520 the function of the gene. And so, while  
NOTE Confidence: 0.9029054475

02:29:44.530 --> 02:29:46.658 clinically it's not at the level of a

NOTE Confidence: 0.9029054475  
02:29:46.658 --> 02:29:49.450 clinical recommendation yet, certainly  
NOTE Confidence: 0.57751054  
02:29:49.450 --> 02:29:51.980 you know I. If I see patients  
NOTE Confidence: 0.57751054  
02:29:51.980 --> 02:29:53.720 in the clinic that I suspect  
NOTE Confidence: 0.57751054  
02:29:53.720 --> 02:29:55.210 might be on the autism Spectrum  
NOTE Confidence: 0.877329035  
02:29:55.630 --> 02:29:56.730 II, try to push and  
NOTE Confidence: 0.877329035  
02:29:56.730 --> 02:29:59.260 advocate for sequencing and  
NOTE Confidence: 0.9337724533333333  
02:29:59.260 --> 02:30:00.946 looking at the sequencing data so  
NOTE Confidence: 0.8895447675  
02:30:01.240 --> 02:30:02.806 we're there, I think you know there's  
NOTE Confidence: 0.8895447675  
02:30:02.806 --> 02:30:04.012 always a lag between the research  
NOTE Confidence: 0.8895447675  
02:30:04.012 --> 02:30:05.430 and the clinical recommendations, but  
NOTE Confidence: 0.861001552  
02:30:05.860 --> 02:30:06.910 you know what we're getting there.  
NOTE Confidence: 0.8066678108333333  
02:30:08.530 --> 02:30:10.693 Come and Tom is a let's say  
NOTE Confidence: 0.8066678108333333  
02:30:10.693 --> 02:30:12.309 some questions in the chat.  
NOTE Confidence: 0.8066678108333333  
02:30:12.310 --> 02:30:15.114 Tom is asking Doctor also a  
NOTE Confidence: 0.8066678108333333  
02:30:15.114 --> 02:30:17.538 question about how far along are  
NOTE Confidence: 0.8066678108333333

02:30:17.538 --> 02:30:20.380 you in your in your work? Yeah,  
NOTE Confidence: 0.776163491

02:30:20.390 --> 02:30:22.910 so I'm a I'm a third year in the program.  
NOTE Confidence: 0.776163491

02:30:22.910 --> 02:30:24.555 One of the great things I think  
NOTE Confidence: 0.776163491

02:30:24.555 --> 02:30:26.406 about UM Yale is that there is  
NOTE Confidence: 0.776163491

02:30:26.406 --> 02:30:27.766 some degree of flexibility that  
NOTE Confidence: 0.776163491

02:30:27.766 --> 02:30:29.607 you can build into your schedule,  
NOTE Confidence: 0.776163491

02:30:29.610 --> 02:30:32.004 and so I've been able to not only keep  
NOTE Confidence: 0.776163491

02:30:32.004 --> 02:30:34.446 some of the basic science things going,  
NOTE Confidence: 0.776163491

02:30:34.450 --> 02:30:36.664 but work with J Mcpartland learning  
NOTE Confidence: 0.776163491

02:30:36.664 --> 02:30:38.860 how to do things like TMS,  
NOTE Confidence: 0.776163491

02:30:38.860 --> 02:30:41.876 and again asking if we see certain neural  
NOTE Confidence: 0.776163491

02:30:41.876 --> 02:30:44.180 signatures or certain networks involved  
NOTE Confidence: 0.776163491

02:30:44.180 --> 02:30:46.388 in rodents are those the same kinds of  
NOTE Confidence: 0.776163491

02:30:46.388 --> 02:30:47.988 networks that if we get access to it,  
NOTE Confidence: 0.776163491

02:30:47.990 --> 02:30:50.195 brain stimulation in humans that we could.  
NOTE Confidence: 0.776163491

02:30:50.200 --> 02:30:51.670 Sort of affect those representations,

NOTE Confidence: 0.776163491

02:30:51.670 --> 02:30:54.078 so being allow me to actually start

NOTE Confidence: 0.776163491

02:30:54.078 --> 02:30:56.290 to make progress towards that yeah.

NOTE Confidence: 0.940167755

02:30:58.630 --> 02:31:01.260 Any other questions from the

NOTE Confidence: 0.940167755

02:31:01.260 --> 02:31:04.070 from the audience? We have one.

NOTE Confidence: 0.940167755

02:31:04.070 --> 02:31:06.530 We have one other question that

NOTE Confidence: 0.940167755

02:31:06.530 --> 02:31:08.236 submitted that we might close on,

NOTE Confidence: 0.940167755

02:31:08.236 --> 02:31:10.888 but I just want to be sure if there's any

NOTE Confidence: 0.940167755

02:31:10.888 --> 02:31:13.000 other questions before I ask this one.

NOTE Confidence: 0.81757528

02:31:17.370 --> 02:31:19.218 So you've heard many of you have heard

NOTE Confidence: 0.81757528

02:31:19.218 --> 02:31:20.790 and heard us talking in various.

NOTE Confidence: 0.81757528

02:31:20.790 --> 02:31:23.454 I actually each of the each of the

NOTE Confidence: 0.81757528

02:31:23.454 --> 02:31:25.740 sections about the changes that the

NOTE Confidence: 0.81757528

02:31:25.740 --> 02:31:28.410 pandemic has brought and the changes with

NOTE Confidence: 0.81757528

02:31:28.410 --> 02:31:31.350 the behavioral health needs increasing.

NOTE Confidence: 0.81757528

02:31:31.350 --> 02:31:34.174 And Tom, you ask a question of how

NOTE Confidence: 0.81757528

02:31:34.174 --> 02:31:36.649 we're meeting this behavioral health.

NOTE Confidence: 0.81757528

02:31:36.650 --> 02:31:39.879 Sir, excuse me the surge.

NOTE Confidence: 0.81757528

02:31:39.880 --> 02:31:41.080 In a more general question,

NOTE Confidence: 0.81757528

02:31:41.080 --> 02:31:43.100 but barely a very poignant

NOTE Confidence: 0.81757528

02:31:43.100 --> 02:31:45.528 question that's been asked is are

NOTE Confidence: 0.81757528

02:31:45.528 --> 02:31:47.508 our children going to be OK?

NOTE Confidence: 0.81757528

02:31:47.510 --> 02:31:49.748 Uhm, with all that has happened

NOTE Confidence: 0.81757528

02:31:49.748 --> 02:31:52.630 in all that is still happening.

NOTE Confidence: 0.81757528

02:31:52.630 --> 02:31:54.268 I think that I am a perpetual

NOTE Confidence: 0.81757528

02:31:54.268 --> 02:31:55.769 optimist and I would say yes.

NOTE Confidence: 0.81757528

02:31:55.770 --> 02:31:56.817 But but yes,

NOTE Confidence: 0.81757528

02:31:56.817 --> 02:31:59.260 with all that we're trying to do,

NOTE Confidence: 0.81757528

02:31:59.260 --> 02:32:01.438 but I would.

NOTE Confidence: 0.81757528

02:32:01.440 --> 02:32:03.750 Really turned to my colleagues

NOTE Confidence: 0.81757528

02:32:03.750 --> 02:32:04.839 because we cannot.

NOTE Confidence: 0.81757528

02:32:04.839 --> 02:32:07.380 One single group cannot do all B.

NOTE Confidence: 0.81757528

02:32:07.380 --> 02:32:09.095 Ensure that our children will be OK,

NOTE Confidence: 0.81757528

02:32:09.100 --> 02:32:12.204 but it certainly takes all of our attention

NOTE Confidence: 0.81757528

02:32:12.204 --> 02:32:16.310 to this and it is an opportunity.

NOTE Confidence: 0.81757528

02:32:16.310 --> 02:32:18.536 Like we have never had to put

NOTE Confidence: 0.81757528

02:32:18.536 --> 02:32:20.535 forward the support and the case

NOTE Confidence: 0.81757528

02:32:20.535 --> 02:32:22.485 make the case for the lifelong

NOTE Confidence: 0.81757528

02:32:22.485 --> 02:32:24.240 impact of behavioral health.

NOTE Confidence: 0.81757528

02:32:24.240 --> 02:32:26.384 But let me let me turn to my

NOTE Confidence: 0.81757528

02:32:26.384 --> 02:32:27.588 colleagues for any additional

NOTE Confidence: 0.81757528

02:32:27.588 --> 02:32:30.514 remarks or things you would end to.

NOTE Confidence: 0.9316107

02:32:41.400 --> 02:32:42.688 Anybody in the audience?

NOTE Confidence: 0.8775753

02:32:45.930 --> 02:32:47.578 I would just as a

NOTE Confidence: 0.8689346333333333

02:32:47.610 --> 02:32:48.699 sort of colleague.

NOTE Confidence: 0.7289275

02:32:50.290 --> 02:32:50.710 Definitely.

NOTE Confidence: 0.17524257

02:32:52.320 --> 02:32:54.400 And. You know you've

NOTE Confidence: 0.73735976

02:32:54.410 --> 02:32:57.520 highlighted. Obviously the increase in  
NOTE Confidence: 0.800632225

02:32:57.530 --> 02:33:01.170 the difficult issues that young people  
NOTE Confidence: 0.75458796

02:33:01.170 --> 02:33:03.600 in particular have had during  
NOTE Confidence: 0.9015835075

02:33:03.610 --> 02:33:04.778 the pandemic. I think  
NOTE Confidence: 0.696776425

02:33:05.900 --> 02:33:07.460 BI two am optimistic  
NOTE Confidence: 0.874183465

02:33:07.530 --> 02:33:09.522 and in part the other side of that  
NOTE Confidence: 0.874183465

02:33:09.522 --> 02:33:10.905 is because it's been so highlighted.  
NOTE Confidence: 0.874183465

02:33:10.905 --> 02:33:12.470 There are a lot of opportunities  
NOTE Confidence: 0.874183465

02:33:12.470 --> 02:33:15.290 and I think greater funding  
NOTE Confidence: 0.874183465

02:33:15.290 --> 02:33:18.206 sources for people who are going  
NOTE Confidence: 0.874183465

02:33:18.206 --> 02:33:20.534 to recognize the importance of this  
NOTE Confidence: 0.874183465

02:33:20.534 --> 02:33:23.920 and some decrease in the stigma.  
NOTE Confidence: 0.874183465

02:33:23.920 --> 02:33:26.268 Also attached to mental health services.  
NOTE Confidence: 0.874183465

02:33:26.268 --> 02:33:27.928 So I think there is  
NOTE Confidence: 0.9023686025

02:33:28.340 --> 02:33:32.260 a lot of opportunity along with the  
NOTE Confidence: 0.9023686025

02:33:32.260 --> 02:33:35.200 challenges that. That we're facing,



NOTE Confidence: 0.56252716

02:33:35.370 --> 02:33:40.454 and I I always believe in kids

NOTE Confidence: 0.56252716

02:33:40.454 --> 02:33:43.134 and they're going to, you know,

NOTE Confidence: 0.56252716

02:33:43.134 --> 02:33:44.140 every generation of kids gets

NOTE Confidence: 0.56252716

02:33:44.140 --> 02:33:45.435 bad mouths in some way and not

NOTE Confidence: 0.56252716

02:33:45.435 --> 02:33:46.659 that these kids are being bad

NOTE Confidence: 0.8505587333333333

02:33:46.670 --> 02:33:47.810 about. But people

NOTE Confidence: 0.90506989

02:33:47.820 --> 02:33:50.049 always worry about the younger generation

NOTE Confidence: 0.90506989

02:33:50.050 --> 02:33:53.780 and somehow they they generally

NOTE Confidence: 0.90506989

02:33:53.780 --> 02:33:59.450 prove their elders. Wrong when they.

NOTE Confidence: 0.90506989

02:33:59.450 --> 02:34:01.258 When they worry too much about them.

NOTE Confidence: 0.9674662

02:34:02.770 --> 02:34:03.590 Thank you for that

NOTE Confidence: 0.871104048

02:34:04.420 --> 02:34:06.240 I think. I think Linda,

NOTE Confidence: 0.802137322173913

02:34:06.270 --> 02:34:08.691 UM I too and am an optimist and I

NOTE Confidence: 0.802137322173913

02:34:08.691 --> 02:34:10.919 and I think we know that children

NOTE Confidence: 0.802137322173913

02:34:10.919 --> 02:34:13.489 do as well as their parents do,

NOTE Confidence: 0.802137322173913

02:34:13.490 --> 02:34:16.787 and I think it's important to underscore  
NOTE Confidence: 0.802137322173913

02:34:16.790 --> 02:34:20.456 the necessity of caring for yourself  
NOTE Confidence: 0.802137322173913

02:34:20.456 --> 02:34:24.839 and finding the ways to get that care.  
NOTE Confidence: 0.802137322173913

02:34:24.840 --> 02:34:27.675 Time away from work doing  
NOTE Confidence: 0.802137322173913

02:34:27.675 --> 02:34:30.510 pleasurable things on your own,  
NOTE Confidence: 0.802137322173913

02:34:30.510 --> 02:34:32.450 but also with your family.  
NOTE Confidence: 0.802137322173913

02:34:32.450 --> 02:34:34.098 Also appreciating that children  
NOTE Confidence: 0.802137322173913

02:34:34.098 --> 02:34:35.746 will have big reactions.  
NOTE Confidence: 0.802137322173913

02:34:35.750 --> 02:34:38.282 So we all have world having big  
NOTE Confidence: 0.802137322173913

02:34:38.282 --> 02:34:39.818 reactions to what we've been through,  
NOTE Confidence: 0.802137322173913

02:34:39.820 --> 02:34:41.600 but understanding that children  
NOTE Confidence: 0.802137322173913

02:34:41.600 --> 02:34:44.945 will have them too and the the best  
NOTE Confidence: 0.802137322173913

02:34:44.945 --> 02:34:47.800 thing we can do is to not rush them,  
NOTE Confidence: 0.802137322173913

02:34:47.800 --> 02:34:50.649 not rush them back into making sure  
NOTE Confidence: 0.802137322173913

02:34:50.649 --> 02:34:53.539 they catch up in six months time,  
NOTE Confidence: 0.802137322173913

02:34:53.540 --> 02:34:56.186 but appreciating that it may take time.

NOTE Confidence: 0.802137322173913

02:34:56.190 --> 02:34:57.411 They are resilient.

NOTE Confidence: 0.802137322173913

02:34:57.411 --> 02:35:00.887 They do have this huge drive to move

NOTE Confidence: 0.802137322173913

02:35:00.887 --> 02:35:03.786 forward in their development, so I,

NOTE Confidence: 0.802137322173913

02:35:03.786 --> 02:35:05.964 but I think really appreciating that.

NOTE Confidence: 0.802137322173913

02:35:05.970 --> 02:35:09.246 There will be some rocky times ahead

NOTE Confidence: 0.802137322173913

02:35:09.246 --> 02:35:13.088 and some some will require more mental,

NOTE Confidence: 0.802137322173913

02:35:13.090 --> 02:35:15.150 more intensive mental health care,

NOTE Confidence: 0.802137322173913

02:35:15.150 --> 02:35:17.526 but others will will need the

NOTE Confidence: 0.802137322173913

02:35:17.526 --> 02:35:20.222 support of their families and their

NOTE Confidence: 0.802137322173913

02:35:20.222 --> 02:35:22.600 teachers and understanding from them.

NOTE Confidence: 0.905790574705882

02:35:24.010 --> 02:35:25.730 Thank you, Nancy. Anything else

NOTE Confidence: 0.905790574705882

02:35:25.730 --> 02:35:28.254 from from all of you who have

NOTE Confidence: 0.905790574705882

02:35:28.254 --> 02:35:30.094 have joined us this afternoon?

NOTE Confidence: 0.478838165

02:35:36.180 --> 02:35:37.600 Well Alex also roped

NOTE Confidence: 0.8795246385

02:35:37.610 --> 02:35:39.946 me in the chat and that it will

NOTE Confidence: 0.8795246385

02:35:39.946 --> 02:35:42.710 be great to be able to be busy in  
NOTE Confidence: 0.8795246385

02:35:42.710 --> 02:35:44.669 person again and we certainly would  
NOTE Confidence: 0.8795246385

02:35:44.669 --> 02:35:46.787 be really really delighted for that.  
NOTE Confidence: 0.8795246385

02:35:46.790 --> 02:35:48.526 I think what I would just be able  
NOTE Confidence: 0.8795246385

02:35:48.526 --> 02:35:50.267 to say is just this afternoon,  
NOTE Confidence: 0.8795246385

02:35:50.270 --> 02:35:52.427 just as we were all meeting Yale,  
NOTE Confidence: 0.8795246385

02:35:52.427 --> 02:35:53.855 Cherney changed the alert  
NOTE Confidence: 0.8795246385

02:35:53.855 --> 02:35:55.640 level from yellow to green,  
NOTE Confidence: 0.8795246385

02:35:55.640 --> 02:35:57.880 which means that we can start to  
NOTE Confidence: 0.8795246385

02:35:57.880 --> 02:35:59.617 have slightly bigger groups and  
NOTE Confidence: 0.8795246385

02:35:59.617 --> 02:36:01.747 we're headed in the right direction.  
NOTE Confidence: 0.8795246385

02:36:01.750 --> 02:36:05.638 But its been along 603 days.  
NOTE Confidence: 0.8795246385

02:36:05.640 --> 02:36:09.276 Right? So thank you again too.  
NOTE Confidence: 0.8795246385

02:36:09.280 --> 02:36:12.015 Uh, yes, I understand totally  
NOTE Confidence: 0.8795246385

02:36:12.015 --> 02:36:14.203 fine under Sir question.  
NOTE Confidence: 0.8795246385

02:36:14.210 --> 02:36:17.360 Please do. Under comment on that.

NOTE Confidence: 0.831076781666667  
02:36:18.120 --> 02:36:19.388 Thank you Linda. Yeah,  
NOTE Confidence: 0.831076781666667  
02:36:19.388 --> 02:36:22.269 I asked Linda along this line of hopefulness.  
NOTE Confidence: 0.831076781666667  
02:36:22.270 --> 02:36:25.198 I think that it's worth adding that in  
NOTE Confidence: 0.831076781666667  
02:36:25.198 --> 02:36:28.126 addition to the hopefulness for all kids.  
NOTE Confidence: 0.831076781666667  
02:36:28.130 --> 02:36:30.704 The pandemic and zoom has opened  
NOTE Confidence: 0.831076781666667  
02:36:30.704 --> 02:36:33.004 possibilities that would have been  
NOTE Confidence: 0.831076781666667  
02:36:33.004 --> 02:36:35.586 undrivable before we have conducted  
NOTE Confidence: 0.831076781666667  
02:36:35.586 --> 02:36:38.196 randomized control trials across countries.  
NOTE Confidence: 0.831076781666667  
02:36:38.200 --> 02:36:40.410 We've established and strengthened our  
NOTE Confidence: 0.831076781666667  
02:36:40.410 --> 02:36:42.620 international connections in ways that  
NOTE Confidence: 0.831076781666667  
02:36:42.678 --> 02:36:44.410 we haven't, and that's across the world.  
NOTE Confidence: 0.831076781666667  
02:36:44.410 --> 02:36:46.559 But I think it also applies to  
NOTE Confidence: 0.831076781666667  
02:36:46.559 --> 02:36:48.699 across the street across the campus,  
NOTE Confidence: 0.831076781666667  
02:36:48.700 --> 02:36:50.530 the interconnectivity that  
NOTE Confidence: 0.831076781666667  
02:36:50.530 --> 02:36:52.305 we realized was right there,  
NOTE Confidence: 0.831076781666667

02:36:52.305 --> 02:36:54.210 in front of us, but we haven't seen it.  
NOTE Confidence: 0.831076781666667

02:36:54.210 --> 02:36:56.448 So again, as a perennial optimist,  
NOTE Confidence: 0.831076781666667

02:36:56.450 --> 02:36:58.112 I think that that's one of  
NOTE Confidence: 0.831076781666667

02:36:58.112 --> 02:36:58.943 the Silver Linings.  
NOTE Confidence: 0.831076781666667

02:36:58.950 --> 02:37:01.038 This all to terrible horrible time.  
NOTE Confidence: 0.856947284545455

02:37:02.510 --> 02:37:04.415 To undress, I think we're  
NOTE Confidence: 0.856947284545455

02:37:04.415 --> 02:37:07.140 closing on a theme of optimism.  
NOTE Confidence: 0.856947284545455

02:37:07.140 --> 02:37:09.716 So again, thanks everyone for joining us.  
NOTE Confidence: 0.856947284545455

02:37:09.720 --> 02:37:11.128 Very much appreciate your  
NOTE Confidence: 0.856947284545455

02:37:11.128 --> 02:37:12.536 being with us virtually,  
NOTE Confidence: 0.856947284545455

02:37:12.540 --> 02:37:15.436 and until we can be together in person  
NOTE Confidence: 0.856947284545455

02:37:15.440 --> 02:37:17.699 we will be will be following up as well.  
NOTE Confidence: 0.856947284545455

02:37:17.700 --> 02:37:18.999 Thank you again.