WEBVTT

NOTE duration: "00:45:51.0800000"

NOTE recognizability:0.834

NOTE language:en-us

NOTE Confidence: 0.903832825714286

 $00:00:00.000 \longrightarrow 00:00:02.310$ I have the pleasure of introducing Dr.

NOTE Confidence: 0.903832825714286

00:00:02.310 --> 00:00:03.627 Ignacio Tapia today.

NOTE Confidence: 0.903832825714286

 $00:00:03.627 \longrightarrow 00:00:06.261$ Doctor Tapia received his medical degree

NOTE Confidence: 0.903832825714286

00:00:06.261 --> 00:00:08.774 from University of Concepcion, Chile.

NOTE Confidence: 0.903832825714286

 $00:00:08.774 \longrightarrow 00:00:10.838$ He did his residency in Pediatrics

NOTE Confidence: 0.903832825714286

 $00{:}00{:}10.838 \dashrightarrow 00{:}00{:}12.385$ and fellowship in pediatric

NOTE Confidence: 0.903832825714286

 $00:00:12.385 \longrightarrow 00:00:14.665$ pulmonology from University of Chile.

NOTE Confidence: 0.903832825714286

 $00:00:14.670 \dashrightarrow 00:00:17.046$ He then moved to US and again completed

NOTE Confidence: 0.903832825714286

 $00:00:17.046 \longrightarrow 00:00:19.345$ his residency in Pediatrics and Fellowship

NOTE Confidence: 0.903832825714286

 $00:00:19.345 \longrightarrow 00:00:21.395$ in pediatric pulmonology from the

NOTE Confidence: 0.903832825714286

 $00{:}00{:}21.395 \dashrightarrow 00{:}00{:}23.269$ Children's Hospital of Philadelphia.

NOTE Confidence: 0.903832825714286

 $00:00:23.270 \longrightarrow 00:00:25.251$ And then he got his masters of

NOTE Confidence: 0.903832825714286

 $00:00:25.251 \longrightarrow 00:00:27.165$ Science degree from University of

 $00:00:27.165 \longrightarrow 00:00:29.169$ Pennsylvania in Translational Research.

NOTE Confidence: 0.903832825714286

 $00{:}00{:}29.170 \dashrightarrow 00{:}00{:}31.335$ He's currently an associate professor

NOTE Confidence: 0.903832825714286

 $00:00:31.335 \longrightarrow 00:00:33.880$ of Pediatrics at the Children's Hour.

NOTE Confidence: 0.903832825714286

 $00:00:33.880 \longrightarrow 00:00:35.925$ University of Pennsylvania School of

NOTE Confidence: 0.903832825714286

 $00:00:35.925 \longrightarrow 00:00:38.407$ Medicine is also the Distinguished Endowed

NOTE Confidence: 0.903832825714286

 $00:00:38.407 \longrightarrow 00:00:40.675$ Chair in the Department of Pediatrics.

NOTE Confidence: 0.903832825714286

 $00{:}00{:}40.680 \dashrightarrow 00{:}00{:}42.738$ He also serves as a director of

NOTE Confidence: 0.903832825714286

00:00:42.738 --> 00:00:44.006 the Pulmonary Medicine Fellowship

NOTE Confidence: 0.903832825714286

 $00{:}00{:}44.006 \dashrightarrow 00{:}00{:}45.968$ program and the director of the

NOTE Confidence: 0.903832825714286

00:00:45.968 --> 00:00:48.530 Sleep Research at the Sleep Center at

NOTE Confidence: 0.903832825714286

 $00{:}00{:}48.530 \dashrightarrow 00{:}00{:}50.054$ Children's Hospital of Philadelphia.

NOTE Confidence: 0.903832825714286

 $00:00:50.060 \longrightarrow 00:00:51.980$ Is received many awards as a

NOTE Confidence: 0.903832825714286

 $00:00:51.980 \longrightarrow 00:00:53.260$ recipient of several grants,

NOTE Confidence: 0.903832825714286

 $00{:}00{:}53.260 \dashrightarrow 00{:}00{:}54.724$ including from the NIH,

NOTE Confidence: 0.903832825714286

 $00:00:54.724 \longrightarrow 00:00:56.920$ and has authored over 70 publications.

NOTE Confidence: 0.903832825714286

 $00:00:56.920 \longrightarrow 00:01:00.008$ He has lectured in courses in pediatric sleep

00:01:00.008 --> 00:01:02.020 disorders nationally and internationally.

NOTE Confidence: 0.903832825714286

 $00:01:02.020 \longrightarrow 00:01:02.754$ Doctor tapia.

NOTE Confidence: 0.903832825714286

 $00:01:02.754 \longrightarrow 00:01:04.589$ Has also had leadership position

NOTE Confidence: 0.903832825714286

 $00:01:04.589 \longrightarrow 00:01:06.823$ in many national societies and is

NOTE Confidence: 0.903832825714286

 $00{:}01{:}06.823 \dashrightarrow 00{:}01{:}08.608$ a strong advocate for diversity.

NOTE Confidence: 0.903832825714286

00:01:08.610 --> 00:01:11.298 He has held editorial positions in many

NOTE Confidence: 0.903832825714286

 $00:01:11.298 \longrightarrow 00:01:12.990$ publications including the editorial

NOTE Confidence: 0.903832825714286

 $00{:}01{:}12.990 \dashrightarrow 00{:}01{:}15.370$ Board of Pediatric Respiratory Reviews.

NOTE Confidence: 0.903832825714286

00:01:15.370 --> 00:01:17.420 His research focuses mostly on

NOTE Confidence: 0.903832825714286

 $00:01:17.420 \longrightarrow 00:01:18.650$ pathophysiology of obstructive

NOTE Confidence: 0.903832825714286

 $00:01:18.650 \longrightarrow 00:01:20.741$ sleep apnea syndrome in Pediatrics

NOTE Confidence: 0.903832825714286

 $00:01:20.741 \longrightarrow 00:01:22.349$ and Down syndrome patients.

NOTE Confidence: 0.903832825714286

 $00:01:22.350 \longrightarrow 00:01:23.806$ Thank you so much for being with us,

NOTE Confidence: 0.903832825714286

 $00:01:23.810 \longrightarrow 00:01:24.506$ Doctor Tapian.

NOTE Confidence: 0.903832825714286

00:01:24.506 --> 00:01:25.550 Without further delay,

 $00:01:25.550 \longrightarrow 00:01:27.368$ I would like to hand it over to you

NOTE Confidence: 0.903832825714286

 $00{:}01{:}27.368 \dashrightarrow 00{:}01{:}29.417$ to share your expertise on sleeping

NOTE Confidence: 0.903832825714286

 $00:01:29.417 \longrightarrow 00:01:31.202$ in individuals with Down syndrome.

NOTE Confidence: 0.903832825714286 00:01:31.210 --> 00:01:31.830 Thank you.

NOTE Confidence: 0.82801099826087

00:01:32.070 --> 00:01:33.262 Thank you very much.

NOTE Confidence: 0.82801099826087

 $00{:}01{:}33.262 {\:\dashrightarrow\:} 00{:}01{:}35.431$ The invitation is a pleasure to to

NOTE Confidence: 0.82801099826087

 $00{:}01{:}35.431 \dashrightarrow 00{:}01{:}37.678$ share with me about the sleeping kids

NOTE Confidence: 0.82801099826087

 $00:01:37.678 \longrightarrow 00:01:39.469$ and individuals with Down syndrome.

NOTE Confidence: 0.74043532375

 $00{:}01{:}43.220 \longrightarrow 00{:}01{:}44.780$ Well, let me try you on this slide.

NOTE Confidence: 0.9654253

 $00:01:50.630 \longrightarrow 00:01:54.920$ OK. This is your my disclosure

NOTE Confidence: 0.9654253

 $00{:}01{:}54.920 \dashrightarrow 00{:}01{:}57.349$ and the number that you need for

NOTE Confidence: 0.9654253

 $00:01:57.349 \longrightarrow 00:01:59.967$ the your to get your CE credit.

NOTE Confidence: 0.9654253

 $00:01:59.970 \longrightarrow 00:02:02.130$ These are my current grant funding

NOTE Confidence: 0.9654253

00:02:02.130 --> 00:02:03.570 and have significant funding

NOTE Confidence: 0.9654253

 $00{:}02{:}03.636 \dashrightarrow 00{:}02{:}05.730$ from the NIH about studies in

NOTE Confidence: 0.9654253

00:02:05.730 --> 00:02:07.126 individuals with Down syndrome,

 $00:02:07.130 \longrightarrow 00:02:09.365$ such as acceptability and performance

NOTE Confidence: 0.9654253

00:02:09.365 --> 00:02:10.706 of income polysomnography.

NOTE Confidence: 0.9654253

 $00:02:10.710 \longrightarrow 00:02:12.870$ We have another one about positive

NOTE Confidence: 0.9654253

00:02:12.870 --> 00:02:14.651 airway pressure for treatment of

NOTE Confidence: 0.9654253

 $00:02:14.651 \longrightarrow 00:02:16.618$ OSA and also have another grant and

NOTE Confidence: 0.9654253

00:02:16.618 --> 00:02:18.387 where we're comparing home sleep

NOTE Confidence: 0.9654253

 $00:02:18.387 \longrightarrow 00:02:20.679$ apnea testing compared to a lab

NOTE Confidence: 0.9654253

00:02:20.679 --> 00:02:22.222 polysomnography in children with

NOTE Confidence: 0.9654253

 $00:02:22.222 \longrightarrow 00:02:24.526$ and without them syndrome and have

NOTE Confidence: 0.9654253

 $00:02:24.526 \longrightarrow 00:02:26.808$ another grant in health disparities.

NOTE Confidence: 0.9654253

 $00:02:26.810 \longrightarrow 00:02:28.889$ So the learning objectives of of this

NOTE Confidence: 0.9654253

 $00:02:28.889 \longrightarrow 00:02:30.620$ presentation are to identify sleep

NOTE Confidence: 0.9654253

 $00{:}02{:}30.620 \dashrightarrow 00{:}02{:}32.966$ disorders in individuals with down syndromes,

NOTE Confidence: 0.9654253

 $00:02:32.970 \longrightarrow 00:02:34.805$ to recognize the challenges of

NOTE Confidence: 0.9654253

 $00{:}02{:}34.805 \dashrightarrow 00{:}02{:}36.640$ sleep in individual with down

 $00:02:36.709 \longrightarrow 00:02:38.609$ syndromes and provide highlights

NOTE Confidence: 0.9654253

 $00{:}02{:}38.609 \dashrightarrow 00{:}02{:}40.509$ of ongoing research projects.

NOTE Confidence: 0.9654253

 $00:02:40.510 \longrightarrow 00:02:42.603$ So this is what we really know

NOTE Confidence: 0.9654253

00:02:42.603 --> 00:02:44.230 about sleeping individual with down

NOTE Confidence: 0.9654253

 $00:02:44.230 \longrightarrow 00:02:45.910$ syndromes like basically not much.

NOTE Confidence: 0.9654253

 $00:02:45.910 \longrightarrow 00:02:49.060$ It's a population that had been largely

NOTE Confidence: 0.9654253

 $00:02:49.060 \longrightarrow 00:02:50.988$ understudied or actually neglected

NOTE Confidence: 0.9654253

 $00{:}02{:}50.988 \dashrightarrow 00{:}02{:}53.508$ from research or clinical trials.

NOTE Confidence: 0.9654253

 $00{:}02{:}53.510 \dashrightarrow 00{:}02{:}55.856$ So recently the NIH launched the

NOTE Confidence: 0.9654253

 $00:02:55.856 \longrightarrow 00:02:57.967$ include initiative which is geared

NOTE Confidence: 0.9654253

 $00{:}02{:}57.967 \dashrightarrow 00{:}02{:}59.895$ towards including individuals with

NOTE Confidence: 0.9654253

 $00:02:59.895 \longrightarrow 00:03:02.996$ Down syndrome in existing trials or in

NOTE Confidence: 0.9654253

 $00:03:02.996 \longrightarrow 00:03:05.180$ trials specific for them or to boost

NOTE Confidence: 0.9654253

 $00:03:05.180 \longrightarrow 00:03:07.372$ their research for individuals with

NOTE Confidence: 0.9654253

 $00:03:07.372 \longrightarrow 00:03:10.180$ Down syndrome across the lifespan from

NOTE Confidence: 0.9654253

 $00{:}03{:}10.257 \dashrightarrow 00{:}03{:}12.667$ basic science to clinical research.

00:03:12.670 --> 00:03:14.590 And going back to OSA,

NOTE Confidence: 0.9654253

00:03:14.590 --> 00:03:16.315 the OSA prevalence in individuals

NOTE Confidence: 0.9654253

00:03:16.315 --> 00:03:18.390 with Down syndrome is very high.

NOTE Confidence: 0.9654253

 $00:03:18.390 \longrightarrow 00:03:21.446$ It's estimated to be 45 to 55%

NOTE Confidence: 0.9654253

 $00:03:21.446 \longrightarrow 00:03:23.510$ according to different publications.

NOTE Confidence: 0.9654253

 $00:03:23.510 \longrightarrow 00:03:25.575$ And actually when you perform a sleep

NOTE Confidence: 0.9654253

00:03:25.575 --> 00:03:27.490 study in individuals with Down syndrome,

NOTE Confidence: 0.9654253

 $00:03:27.490 \longrightarrow 00:03:29.290$ most likely it would be abnormal,

NOTE Confidence: 0.9654253

 $00{:}03{:}29.290 \dashrightarrow 00{:}03{:}30.818$ maybe not severely abnormal,

NOTE Confidence: 0.9654253

 $00{:}03{:}30.818 \dashrightarrow 00{:}03{:}33.110$ but it would be abnormal per

NOTE Confidence: 0.9654253

 $00:03:33.185 \longrightarrow 00:03:35.670$ pediatric criteria or adult criteria.

NOTE Confidence: 0.9654253

00:03:35.670 --> 00:03:37.626 So based on these high prevalence,

NOTE Confidence: 0.9654253

 $00{:}03{:}37.630 \dashrightarrow 00{:}03{:}39.935$ the American Academy of Pediatrics

NOTE Confidence: 0.9654253

 $00:03:39.935 \longrightarrow 00:03:41.774$ recommended in 2011 that.

NOTE Confidence: 0.9654253

 $00:03:41.774 \longrightarrow 00:03:44.059$ It's children with Down syndrome

00:03:44.059 --> 00:03:46.638 had an evaluation at age 6 month.

NOTE Confidence: 0.9654253

00:03:46.640 --> 00:03:47.005 However,

NOTE Confidence: 0.9654253

 $00:03:47.005 \longrightarrow 00:03:49.560$ the details of this evaluation are a

NOTE Confidence: 0.9654253

 $00:03:49.560 \longrightarrow 00:03:52.185$ little bit laxed and they recommend also

NOTE Confidence: 0.9654253

 $00:03:52.185 \longrightarrow 00:03:55.057$ that they have sleep study by age 4 years.

NOTE Confidence: 0.9654253

 $00:03:55.060 \longrightarrow 00:03:56.908$ However, this is a little bit difficult

NOTE Confidence: 0.9654253

00:03:56.908 --> 00:03:58.400 to accomplish because there are many,

NOTE Confidence: 0.9654253

 $00:03:58.400 \longrightarrow 00:04:00.450$ there are not many dedicated

NOTE Confidence: 0.9654253

00:04:00.450 --> 00:04:01.680 pediatric sleep lab,

NOTE Confidence: 0.9654253

 $00:04:01.680 \longrightarrow 00:04:03.665$ let alone with expertise in

NOTE Confidence: 0.9654253

 $00{:}04{:}03.665 \dashrightarrow 00{:}04{:}05.253$ individuals with Down syndrome.

NOTE Confidence: 0.9654253

00:04:05.260 --> 00:04:07.460 As part of research we have been contacted,

NOTE Confidence: 0.9654253

 $00:04:07.460 \longrightarrow 00:04:08.058$ for example,

NOTE Confidence: 0.9654253

 $00:04:08.058 \longrightarrow 00:04:09.553$ from families far away from

NOTE Confidence: 0.9654253

00:04:09.553 --> 00:04:11.240 my center in Philadelphia.

NOTE Confidence: 0.9654253

00:04:11.240 --> 00:04:12.696 I remember one family.

 $00:04:12.696 \longrightarrow 00:04:14.880$ From North Dakota wanted to participate

NOTE Confidence: 0.9654253

 $00{:}04{:}14.940 \dashrightarrow 00{:}04{:}17.284$ in the study and in talking to them

NOTE Confidence: 0.9654253

 $00:04:17.284 \longrightarrow 00:04:19.073$ they mentioned that the child was

NOTE Confidence: 0.9654253

 $00:04:19.073 \longrightarrow 00:04:20.277$ diagnosed with obstructive sleep

NOTE Confidence: 0.9654253

 $00:04:20.277 \longrightarrow 00:04:22.596$ apnea and they were not all for any

NOTE Confidence: 0.9654253

 $00:04:22.596 \longrightarrow 00:04:23.956$ particular treatment and were told

NOTE Confidence: 0.9654253

 $00:04:24.006 \longrightarrow 00:04:25.862$ that there it was just part of the

NOTE Confidence: 0.9654253

 $00:04:25.862 \longrightarrow 00:04:28.826$ syndrome and they have to live with it.

NOTE Confidence: 0.9654253

 $00:04:28.830 \longrightarrow 00:04:31.063$ And and so it's our duty as

NOTE Confidence: 0.9654253

 $00:04:31.063 \longrightarrow 00:04:32.975$ providers to educate the community

NOTE Confidence: 0.9654253

00:04:32.975 --> 00:04:34.747 about children in general,

NOTE Confidence: 0.9654253

 $00:04:34.750 \longrightarrow 00:04:35.899$ children with developmental

NOTE Confidence: 0.9654253

 $00:04:35.899 \longrightarrow 00:04:37.048$ disabilities and specifically

NOTE Confidence: 0.9654253

 $00{:}04{:}37.048 \dashrightarrow 00{:}04{:}38.580$ children with Down syndrome.

NOTE Confidence: 0.9654253

 $00:04:38.580 \longrightarrow 00:04:40.902$ There are many treatment that the

 $00:04:40.902 \longrightarrow 00:04:43.068$ treatments that are available to them

NOTE Confidence: 0.9654253

 $00:04:43.068 \longrightarrow 00:04:45.675$ and I will show you that they're able to

NOTE Confidence: 0.9654253

 $00:04:45.675 \longrightarrow 00:04:47.985$ be adherent to some of those treatments.

NOTE Confidence: 0.9654253

00:04:47.990 --> 00:04:48.391 Importantly,

NOTE Confidence: 0.9654253

 $00:04:48.391 \longrightarrow 00:04:50.396$ this high prevalence of obstructive

NOTE Confidence: 0.9654253

 $00:04:50.396 \longrightarrow 00:04:52.413$ sleep apnea is also associated

NOTE Confidence: 0.9654253

 $00:04:52.413 \longrightarrow 00:04:54.489$ with a low rate of resolution.

NOTE Confidence: 0.9654253

00:04:54.490 --> 00:04:57.088 Many children with Down syndrome do

NOTE Confidence: 0.9654253

 $00{:}04{:}57.088 \dashrightarrow 00{:}04{:}58.820$ not resolve after a denotonsillectomy

NOTE Confidence: 0.817372078181818

 $00:04:58.888 \longrightarrow 00:05:02.100$ requiring. Other treatments?

NOTE Confidence: 0.817372078181818

 $00{:}05{:}02.100 \dashrightarrow 00{:}05{:}04.963$ In terms of the increased incidence or

NOTE Confidence: 0.817372078181818

 $00:05:04.963 \longrightarrow 00:05:07.865$ risk of obstructive sleep apnea in this

NOTE Confidence: 0.817372078181818

 $00:05:07.865 \longrightarrow 00:05:10.271$ population is due to several factors.

NOTE Confidence: 0.817372078181818

 $00:05:10.280 \longrightarrow 00:05:11.940$ One of those are anatomical,

NOTE Confidence: 0.817372078181818

 $00:05:11.940 \longrightarrow 00:05:15.378$ such as midface hypoplasia or glossopteris.

NOTE Confidence: 0.817372078181818

 $00:05:15.380 \longrightarrow 00:05:18.372$ And also they do have some factors affecting

00:05:18.372 --> 00:05:20.898 their neuromotor control of the upper airway,

NOTE Confidence: 0.817372078181818

 $00:05:20.900 \longrightarrow 00:05:22.820$ such as hypotonia for example.

NOTE Confidence: 0.817372078181818

 $00:05:22.820 \longrightarrow 00:05:24.500$ If they are really hypotonic,

NOTE Confidence: 0.817372078181818

00:05:24.500 --> 00:05:26.092 they're upper Airways hypotonic.

NOTE Confidence: 0.817372078181818

 $00:05:26.092 \longrightarrow 00:05:28.856$ Many of them have swallowing dysfunction and

NOTE Confidence: 0.817372078181818

 $00:05:28.856 \longrightarrow 00:05:31.096$ many of the infants have silent swallowing,

NOTE Confidence: 0.817372078181818

 $00:05:31.100 \longrightarrow 00:05:31.868$ swallowing. Function.

NOTE Confidence: 0.817372078181818

 $00:05:31.868 \longrightarrow 00:05:35.704$ We have to think that to have to be able

NOTE Confidence: 0.817372078181818

 $00:05:35.704 \longrightarrow 00:05:38.440$ to choke or to protect your upper airway

NOTE Confidence: 0.817372078181818

 $00:05:38.513 \longrightarrow 00:05:41.717$ or to or to have cough related to aspiration,

NOTE Confidence: 0.817372078181818

 $00:05:41.720 \longrightarrow 00:05:43.490$ you need to have certain

NOTE Confidence: 0.817372078181818

 $00:05:43.490 \longrightarrow 00:05:45.260$ coordination of your upper airway.

NOTE Confidence: 0.817372078181818

 $00{:}05{:}45.260 \dashrightarrow 00{:}05{:}47.493$ The upper airway is a very complex

NOTE Confidence: 0.817372078181818

 $00{:}05{:}47.493 \dashrightarrow 00{:}05{:}49.467$ system from a neuromuscular perspective

NOTE Confidence: 0.817372078181818

00:05:49.467 --> 00:05:52.771 and we are as adults and typically

 $00:05:52.771 \longrightarrow 00:05:54.650$ developing adults were able to.

NOTE Confidence: 0.817372078181818

 $00:05:54.650 \longrightarrow 00:05:56.960$ Talk to breathe and to swallow

NOTE Confidence: 0.817372078181818

 $00.05.56.960 \longrightarrow 00.05.59.429$ or drink at the same time.

NOTE Confidence: 0.817372078181818 00:05:59.430 --> 00:05:59.740 However, NOTE Confidence: 0.817372078181818

 $00:05:59.740 \longrightarrow 00:06:01.910$ this requires a lot of coordination that

NOTE Confidence: 0.817372078181818

 $00:06:01.910 \longrightarrow 00:06:04.698$ is not there in children and specifically

NOTE Confidence: 0.817372078181818

 $00:06:04.698 \longrightarrow 00:06:06.803$ in those with developmental disabilities.

NOTE Confidence: 0.817372078181818

00:06:06.810 --> 00:06:08.742 Many of the patient with Down syndrome

NOTE Confidence: 0.817372078181818

 $00{:}06{:}08.742 \longrightarrow 00{:}06{:}11.117$ who present to clinic and they do not

NOTE Confidence: 0.817372078181818

00:06:11.117 --> 00:06:12.602 have other symptoms of aspiration.

NOTE Confidence: 0.817372078181818

00:06:12.610 --> 00:06:15.770 When you request the videos from one study,

NOTE Confidence: 0.817372078181818

 $00{:}06{:}15.770 \dashrightarrow 00{:}06{:}18.220$ you find out actually from mild as piration

NOTE Confidence: 0.817372078181818

 $00:06:18.220 \longrightarrow 00:06:20.670$ to severe a spiration that has been unnoticed.

NOTE Confidence: 0.817372078181818

 $00{:}06{:}20.670 \dashrightarrow 00{:}06{:}22.330$ This can have effects obviously,

NOTE Confidence: 0.817372078181818

 $00:06:22.330 \longrightarrow 00:06:24.826$ because then you have alterations in.

NOTE Confidence: 0.817372078181818

 $00{:}06{:}24.830 \dashrightarrow 00{:}06{:}27.525$ You mismatch due to the chronic as piration

 $00:06:27.525 \longrightarrow 00:06:30.548$ and you can have profound desaturations

NOTE Confidence: 0.817372078181818

 $00{:}06{:}30.548 \dashrightarrow 00{:}06{:}33.533$ with the associated obstructive events.

NOTE Confidence: 0.817372078181818 00:06:33.540 --> 00:06:33.886 Also, NOTE Confidence: 0.817372078181818

 $00:06:33.886 \longrightarrow 00:06:36.654$ we have to think that many of the

NOTE Confidence: 0.817372078181818

 $00:06:36.654 \longrightarrow 00:06:39.522$ children may develop obesity and have

NOTE Confidence: 0.817372078181818

00:06:39.522 --> 00:06:41.972 also hypothyroidism that may contribute

NOTE Confidence: 0.817372078181818

 $00:06:42.047 \longrightarrow 00:06:44.567$ further to obstructive sleep apnea.

NOTE Confidence: 0.817372078181818

 $00{:}06{:}44.570 \dashrightarrow 00{:}06{:}48.077$ We know that obstructive sleep apnea in.

NOTE Confidence: 0.817372078181818

 $00:06:48.080 \longrightarrow 00:06:50.130$ Children without them syndrome is

NOTE Confidence: 0.817372078181818

 $00{:}06{:}50.130 \dashrightarrow 00{:}06{:}51.770$ also associated to neurobehavioral

NOTE Confidence: 0.817372078181818

00:06:51.770 --> 00:06:53.680 deficits such as executive function,

NOTE Confidence: 0.817372078181818

 $00:06:53.680 \longrightarrow 00:06:55.896$ for example systemic hypertension.

NOTE Confidence: 0.817372078181818

 $00{:}06{:}55.896 {\:{\mbox{--}}\!>}\ 00{:}06{:}58.112$ They have possibly elevated

NOTE Confidence: 0.817372078181818

00:06:58.112 --> 00:06:59.220 cardiometabolic risk.

NOTE Confidence: 0.817372078181818

 $00:06:59.220 \longrightarrow 00:07:01.500$ My colleague here in the endocrinology,

00:07:01.500 --> 00:07:02.280 Andrea Kelly,

NOTE Confidence: 0.817372078181818

 $00{:}07{:}02.280 \dashrightarrow 00{:}07{:}04.230$ has authored several papers about

NOTE Confidence: 0.817372078181818

 $00:07:04.230 \longrightarrow 00:07:06.778$ that and there's a possible link of

NOTE Confidence: 0.817372078181818

 $00:07:06.778 \longrightarrow 00:07:08.752$ on treating OSA with early dementia

NOTE Confidence: 0.817372078181818

 $00:07:08.815 \longrightarrow 00:07:10.399$ in the general population.

NOTE Confidence: 0.817372078181818

 $00{:}07{:}10.400 \dashrightarrow 00{:}07{:}13.214$ This has to be further studied in

NOTE Confidence: 0.817372078181818

 $00{:}07{:}13.214 \dashrightarrow 00{:}07{:}15.160$ individuals with Down syndrome.

NOTE Confidence: 0.817372078181818

 $00{:}07{:}15.160 \dashrightarrow 00{:}07{:}16.552$ This slide that was linked to

NOTE Confidence: 0.817372078181818

 $00{:}07{:}16.552 --> 00{:}07{:}18.310$ me by one of my colleagues.

NOTE Confidence: 0.817372078181818 00:07:18.310 --> 00:07:19.152 And UCLA.

NOTE Confidence: 0.817372078181818

00:07:19.152 --> 00:07:22.099 And they do analysis of the EEG,

NOTE Confidence: 0.817372078181818

 $00:07:22.100 \longrightarrow 00:07:24.356$ like big data analysis of EEG.

NOTE Confidence: 0.817372078181818

 $00:07:24.360 \longrightarrow 00:07:27.279$ This is our adults without an syndrome

NOTE Confidence: 0.817372078181818

00:07:27.279 --> 00:07:30.578 who have OSA and who do not have OSA.

NOTE Confidence: 0.817372078181818

 $00:07:30.580 \longrightarrow 00:07:32.356$ You have there the numbers how

NOTE Confidence: 0.817372078181818

 $00:07:32.356 \longrightarrow 00:07:34.663$ they were pair and they came up

 $00:07:34.663 \longrightarrow 00:07:36.433$ investigators with an aging index,

NOTE Confidence: 0.817372078181818 00:07:36.440 --> 00:07:36.872 right? NOTE Confidence: 0.817372078181818

 $00:07:36.872 \longrightarrow 00:07:39.056$ An aging index that as

NOTE Confidence: 0.817372078181818

 $00:07:39.056 \longrightarrow 00:07:41.336$ as the the person ages.

NOTE Confidence: 0.817372078181818

 $00:07:41.340 \longrightarrow 00:07:43.524$ There's certain signals in the in

NOTE Confidence: 0.817372078181818

 $00:07:43.524 \longrightarrow 00:07:45.772$ the EEG that allow investigators to

NOTE Confidence: 0.817372078181818

 $00:07:45.772 \longrightarrow 00:07:48.628$ come up with an index and they see

NOTE Confidence: 0.817372078181818

 $00:07:48.705 \longrightarrow 00:07:51.020$ that chronological age they have.

NOTE Confidence: 0.817372078181818

 $00:07:51.020 \longrightarrow 00:07:53.220$ If you see here in the Gray axis in the

NOTE Confidence: 0.817372078181818

 $00:07:53.285 \longrightarrow 00:07:55.547$ Gray color with the confidence interval,

NOTE Confidence: 0.817372078181818

 $00:07:55.550 \longrightarrow 00:07:57.692$ there you have how this brain index

NOTE Confidence: 0.817372078181818

 $00:07:57.692 \longrightarrow 00:07:59.939$ is that it increases with age,

NOTE Confidence: 0.817372078181818

 $00{:}07{:}59.940 \dashrightarrow 00{:}08{:}02.040$ but it's not super, super significant.

NOTE Confidence: 0.817372078181818 00:08:02.040 --> 00:08:02.440 However, NOTE Confidence: 0.817372078181818

 $00:08:02.440 \longrightarrow 00:08:04.834$ in those who always say start

 $00:08:04.834 \longrightarrow 00:08:07.198$ to increase a lot with age.

NOTE Confidence: 0.817372078181818

 $00:08:07.200 \longrightarrow 00:08:08.004$ So that means,

NOTE Confidence: 0.817372078181818 00:08:08.004 --> 00:08:08.540 for example, NOTE Confidence: 0.817372078181818

 $00:08:08.540 \longrightarrow 00:08:10.255$ an individual who is 50

NOTE Confidence: 0.817372078181818

 $00:08:10.255 \longrightarrow 00:08:11.970$ years old and has untreated

NOTE Confidence: 0.853614664857143

 $00:08:12.044 \longrightarrow 00:08:14.634$ obstructive sleep apnea has a brain index

NOTE Confidence: 0.853614664857143

 $00:08:14.634 \longrightarrow 00:08:17.739$ that is older than the same individual

NOTE Confidence: 0.853614664857143

 $00{:}08{:}17.739 \dashrightarrow 00{:}08{:}19.659$ without obstructive sleep apnea.

NOTE Confidence: 0.853614664857143

 $00{:}08{:}19.660 \dashrightarrow 00{:}08{:}24.097$ So this is a theory that may link on

NOTE Confidence: 0.853614664857143

 $00:08:24.097 \longrightarrow 00:08:25.982$ treating obstructive sleep apnea with

NOTE Confidence: 0.853614664857143

 $00{:}08{:}25.982 \dashrightarrow 00{:}08{:}28.303$ the appearance of early dementia or

NOTE Confidence: 0.853614664857143

 $00:08:28.303 \longrightarrow 00:08:30.188$ Alzheimer likes in individuals with

NOTE Confidence: 0.853614664857143

 $00:08:30.188 \longrightarrow 00:08:32.318$ Down syndrome as early as age 30.

NOTE Confidence: 0.853614664857143

 $00:08:32.320 \longrightarrow 00:08:35.498$ And this is what we're further investigating.

NOTE Confidence: 0.853614664857143

 $00:08:35.500 \longrightarrow 00:08:37.990$ So we know that in specifically

NOTE Confidence: 0.853614664857143

 $00:08:37.990 \longrightarrow 00:08:39.631$ in Down syndrome police,

00:08:39.631 --> 00:08:41.977 hypnotherapy improves in only a portion

NOTE Confidence: 0.853614664857143

 $00:08:41.977 \longrightarrow 00:08:44.360$ of children after adenotonsillectomy.

NOTE Confidence: 0.853614664857143

 $00:08:44.360 \longrightarrow 00:08:46.288$ So it may well be that police have

NOTE Confidence: 0.853614664857143

00:08:46.288 --> 00:08:47.880 monography is not the best outcome,

NOTE Confidence: 0.853614664857143

 $00:08:47.880 \longrightarrow 00:08:49.890$ it's the outcome that interest

NOTE Confidence: 0.853614664857143

 $00:08:49.890 \longrightarrow 00:08:51.498$ US physicians or scientists.

NOTE Confidence: 0.853614664857143

00:08:51.500 --> 00:08:53.849 But it may may not be the outcome that

NOTE Confidence: 0.853614664857143

 $00:08:53.849 \longrightarrow 00:08:56.853$ is interesting for the family or for the

NOTE Confidence: 0.853614664857143

 $00:08:56.853 \longrightarrow 00:08:58.899$ daytime functioning of the children.

NOTE Confidence: 0.853614664857143

 $00{:}08{:}58.900 \dashrightarrow 00{:}09{:}01.120$ We need to investigate more about

NOTE Confidence: 0.853614664857143

00:09:01.120 --> 00:09:03.819 what is their data and functioning,

NOTE Confidence: 0.853614664857143

 $00:09:03.820 \longrightarrow 00:09:06.324$ what is the importance of quality of life.

NOTE Confidence: 0.853614664857143

 $00{:}09{:}06.330 \dashrightarrow 00{:}09{:}08.675$ What are the car you metabolic outcomes

NOTE Confidence: 0.853614664857143

 $00:09:08.675 \longrightarrow 00:09:11.488$ and what are the family center outcomes?

NOTE Confidence: 0.853614664857143

 $00:09:11.490 \longrightarrow 00:09:12.838$ So based on this,

 $00:09:12.838 \longrightarrow 00:09:14.523$ because they don't resolve some

NOTE Confidence: 0.853614664857143

 $00{:}09{:}14.523 \dashrightarrow 00{:}09{:}18.050$ individuals are referred for initiation.

NOTE Confidence: 0.853614664857143

00:09:18.050 --> 00:09:20.794 So what next with with that information,

NOTE Confidence: 0.853614664857143

 $00:09:20.800 \longrightarrow 00:09:22.893$ we have a lot of unknowns in

NOTE Confidence: 0.853614664857143

00:09:22.893 --> 00:09:24.120 Down syndrome and OSA.

NOTE Confidence: 0.853614664857143

 $00:09:24.120 \longrightarrow 00:09:24.896$ For example,

NOTE Confidence: 0.853614664857143

 $00:09:24.896 \longrightarrow 00:09:27.224$ in terms of diagnostic diagnosis and

NOTE Confidence: 0.853614664857143

00:09:27.224 --> 00:09:29.638 treatment of sleep disorder breathing,

NOTE Confidence: 0.853614664857143

 $00:09:29.640 \longrightarrow 00:09:31.962$ we have the possibility of Indianapolis

NOTE Confidence: 0.853614664857143

00:09:31.962 --> 00:09:34.488 of Monography that I was referring

NOTE Confidence: 0.853614664857143

 $00:09:34.488 \longrightarrow 00:09:36.296$ to there also unfortunately

NOTE Confidence: 0.853614664857143

 $00:09:36.296 \longrightarrow 00:09:38.104$ for obstructive sleep apnea.

NOTE Confidence: 0.853614664857143

 $00:09:38.110 \longrightarrow 00:09:40.007$ And there's no like like a point

NOTE Confidence: 0.853614664857143

 $00:09:40.007 \longrightarrow 00:09:41.414$ of care tool, for example,

NOTE Confidence: 0.853614664857143

 $00:09:41.414 \longrightarrow 00:09:43.493$ a hemoglobin A1C that we can say,

NOTE Confidence: 0.853614664857143

 $00:09:43.500 \longrightarrow 00:09:43.796$ OK,

 $00{:}09{:}43.796 \dashrightarrow 00{:}09{:}45.572$ this is your risk or cholesterol

NOTE Confidence: 0.853614664857143

 $00:09:45.572 \longrightarrow 00:09:47.221$ or whatever thing that you can

NOTE Confidence: 0.853614664857143

 $00:09:47.221 \longrightarrow 00:09:48.386$ do in blood or urine.

NOTE Confidence: 0.853614664857143

 $00:09:48.390 \longrightarrow 00:09:50.739$ They have to go to the left PSG to

NOTE Confidence: 0.853614664857143

00:09:50.739 --> 00:09:53.210 know whether they have uh OSI or not.

NOTE Confidence: 0.853614664857143

 $00{:}09{:}53.210 \dashrightarrow 00{:}09{:}55.170$ Also it is unknown what is the role

NOTE Confidence: 0.853614664857143

00:09:55.170 --> 00:09:57.563 for in home screening or diagnosis or

NOTE Confidence: 0.853614664857143

 $00:09:57.563 \longrightarrow 00:09:59.930$ homeless sleep apnea testing for example.

NOTE Confidence: 0.853614664857143

 $00{:}09{:}59.930 \dashrightarrow 00{:}10{:}01.988$ It is also known whether Athena

NOTE Confidence: 0.853614664857143

 $00:10:01.988 \longrightarrow 00:10:03.984$ tonsillectomy is the first line of

NOTE Confidence: 0.853614664857143

 $00:10:03.984 \longrightarrow 00:10:05.930$ treatment or whether it is the the

NOTE Confidence: 0.853614664857143

 $00:10:05.930 \longrightarrow 00:10:08.290$ best indicated treatment for everybody.

NOTE Confidence: 0.853614664857143

 $00{:}10{:}08.290 \to 00{:}10{:}10.630$ Maybe some kids would improve with

NOTE Confidence: 0.853614664857143

 $00:10:10.630 \longrightarrow 00:10:13.009$ advance electronic but some others need,

NOTE Confidence: 0.853614664857143

00:10:13.010 --> 00:10:15.558 some others need to go to CPAP

 $00:10:15.558 \longrightarrow 00:10:17.256$ or other other therapeutic.

NOTE Confidence: 0.853614664857143

 $00{:}10{:}17.256 \rightarrow 00{:}10{:}20.154$ Weapons such As for example inspire

NOTE Confidence: 0.853614664857143

00:10:20.154 --> 00:10:22.955 and they're also lack of randomized

NOTE Confidence: 0.853614664857143

 $00:10:22.955 \longrightarrow 00:10:25.150$ control trials in children with

NOTE Confidence: 0.853614664857143

 $00:10:25.150 \longrightarrow 00:10:27.280$ Down syndrome specifically.

NOTE Confidence: 0.853614664857143

00:10:27.280 --> 00:10:29.062 Also a patient centered outcomes is

NOTE Confidence: 0.853614664857143

 $00:10:29.062 \longrightarrow 00:10:31.241$ something that we don't know what is

NOTE Confidence: 0.853614664857143

00:10:31.241 --> 00:10:32.801 the most appropriate nerve behavioral

NOTE Confidence: 0.853614664857143

 $00:10:32.801 \longrightarrow 00:10:34.869$ testing and the lack of harmonization

NOTE Confidence: 0.853614664857143

00:10:34.869 --> 00:10:36.604 between the different groups for

NOTE Confidence: 0.853614664857143

 $00{:}10{:}36.604 \dashrightarrow 00{:}10{:}38.480$ conducting research in the population.

NOTE Confidence: 0.853614664857143

 $00:10:38.480 \longrightarrow 00:10:40.380$ Also as I explained before,

NOTE Confidence: 0.853614664857143

00:10:40.380 --> 00:10:40.902 for example,

NOTE Confidence: 0.853614664857143

00:10:40.902 --> 00:10:42.468 police of knowledge is something that

NOTE Confidence: 0.853614664857143

 $00:10:42.468 \longrightarrow 00:10:44.260$ we love is sort of an easy outcome.

NOTE Confidence: 0.853614664857143 00:10:44.260 --> 00:10:44.648 However,

00:10:44.648 --> 00:10:46.588 if families may experience different

NOTE Confidence: 0.853614664857143

 $00:10:46.588 \longrightarrow 00:10:49.260$ challenges that are more important for them.

NOTE Confidence: 0.853614664857143

 $00:10:49.260 \longrightarrow 00:10:51.105$ Then those of typically developing

NOTE Confidence: 0.853614664857143

00:10:51.105 --> 00:10:53.313 children and also families may be

NOTE Confidence: 0.853614664857143

00:10:53.313 --> 00:10:54.843 interested in smaller strides is

NOTE Confidence: 0.853614664857143

 $00:10:54.843 \longrightarrow 00:10:57.173$ something that I I see a lot of

NOTE Confidence: 0.853614664857143

 $00:10:57.173 \longrightarrow 00:10:58.739$ families with Down syndrome and I

NOTE Confidence: 0.853614664857143

 $00{:}10{:}58.740 \dashrightarrow 00{:}11{:}00.896$ have learned so much from from them.

NOTE Confidence: 0.853614664857143

00:11:00.900 --> 00:11:03.315 One family I remember we were talking

NOTE Confidence: 0.853614664857143

00:11:03.315 --> 00:11:05.888 about starting CPAP and I was explaining

NOTE Confidence: 0.853614664857143

 $00:11:05.888 \longrightarrow 00:11:07.364$ the desensitization process and

NOTE Confidence: 0.853614664857143

 $00:11:07.364 \longrightarrow 00:11:09.678$ how it's progressive and etcetera,

NOTE Confidence: 0.853614664857143 00:11:09.680 --> 00:11:09.995 etcetera. NOTE Confidence: 0.853614664857143

00:11:09.995 --> 00:11:12.830 And I remember mom told me we we we

NOTE Confidence: 0.850755390714286

 $00:11:12.900 \longrightarrow 00:11:14.621$ go for the 1%, she said it's

00:11:14.621 --> 00:11:15.856 something that we have learned.

NOTE Confidence: 0.850755390714286

 $00:11:15.860 \longrightarrow 00:11:19.433$ So whatever we do, we do PT or OT.

NOTE Confidence: 0.850755390714286

00:11:19.440 --> 00:11:21.365 Any milestone that we need to reach,

NOTE Confidence: 0.850755390714286

 $00:11:21.370 \longrightarrow 00:11:24.235$ I go for the 1% and won't give it to that 1%,

NOTE Confidence: 0.850755390714286

 $00:11:24.240 \longrightarrow 00:11:27.258$ we move to the next 1% and things like that.

NOTE Confidence: 0.850755390714286

00:11:27.258 --> 00:11:29.664 So we have to consider that maybe the

NOTE Confidence: 0.850755390714286

 $00{:}11{:}29.664 \dashrightarrow 00{:}11{:}32.040$ time that it takes for them to arbitrate

NOTE Confidence: 0.850755390714286

 $00:11:32.109 \longrightarrow 00:11:34.349$ to any therapy that we may want to

NOTE Confidence: 0.850755390714286

 $00{:}11{:}34.349 \dashrightarrow 00{:}11{:}37.698$ institute is a little bit longer.

NOTE Confidence: 0.850755390714286

 $00:11:37.700 \longrightarrow 00:11:39.509$ So what are the challenges, right?

NOTE Confidence: 0.850755390714286

 $00{:}11{:}39.509 \dashrightarrow 00{:}11{:}41.603$ We have testing that is required

NOTE Confidence: 0.850755390714286

00:11:41.603 --> 00:11:44.247 for diagnosis and that is a major

NOTE Confidence: 0.850755390714286

 $00:11:44.247 \longrightarrow 00:11:45.779$ challenge because of availability.

NOTE Confidence: 0.850755390714286

00:11:45.780 --> 00:11:47.900 Also because it's the rest for the family,

NOTE Confidence: 0.850755390714286

 $00:11:47.900 \longrightarrow 00:11:49.839$ they have to come with other siblings

NOTE Confidence: 0.850755390714286

 $00:11:49.839 \longrightarrow 00:11:52.114$ or pay for someone to take care of

 $00:11:52.114 \longrightarrow 00:11:54.217$ the other kids while the family is

NOTE Confidence: 0.850755390714286

00:11:54.217 --> 00:11:56.191 overnight and sleep lab also this

NOTE Confidence: 0.850755390714286

00:11:56.191 --> 00:11:58.215 expensive and you have to come from

NOTE Confidence: 0.850755390714286

 $00:11:58.215 \longrightarrow 00:12:00.253$ from far away for example for the

NOTE Confidence: 0.850755390714286

 $00{:}12{:}00.253 \dashrightarrow 00{:}12{:}02.374$ lab there are many costs that are

NOTE Confidence: 0.850755390714286

 $00:12:02.374 \longrightarrow 00:12:04.214$ associated with that also the tolerance

NOTE Confidence: 0.850755390714286

 $00:12:04.214 \longrightarrow 00:12:06.122$ is something that has been discussed

NOTE Confidence: 0.850755390714286

 $00{:}12{:}06.122 \dashrightarrow 00{:}12{:}08.477$ at length by several publications that.

NOTE Confidence: 0.850755390714286

00:12:08.480 --> 00:12:10.255 Children with Down syndrome may

NOTE Confidence: 0.850755390714286

 $00:12:10.255 \longrightarrow 00:12:11.646$ not tolerate the setup.

NOTE Confidence: 0.850755390714286

 $00{:}12{:}11.646 \dashrightarrow 00{:}12{:}13.674$ In my personal experience that our

NOTE Confidence: 0.850755390714286

 $00{:}12{:}13.674 \dashrightarrow 00{:}12{:}15.688$ center the checks are fantastic.

NOTE Confidence: 0.850755390714286

 $00:12:15.690 \longrightarrow 00:12:18.308$ They have a great expertise in kids

NOTE Confidence: 0.850755390714286

 $00{:}12{:}18.308 \dashrightarrow 00{:}12{:}19.749$ with developmental disabilities and

NOTE Confidence: 0.850755390714286

 $00:12:19.749 \longrightarrow 00:12:21.845$ most of them get to tolerate the entire

 $00:12:21.845 \longrightarrow 00:12:24.008$ set up as a workshop show show later.

NOTE Confidence: 0.850755390714286

 $00:12:24.010 \longrightarrow 00:12:27.330$ But that may not be the case everywhere.

NOTE Confidence: 0.850755390714286

 $00:12:27.330 \longrightarrow 00:12:30.114$ So also it is important to note that

NOTE Confidence: 0.850755390714286

00:12:30.114 --> 00:12:32.359 research has shown that for example

NOTE Confidence: 0.850755390714286

 $00:12:32.359 \longrightarrow 00:12:34.115$ 90% of children with Down syndrome

NOTE Confidence: 0.850755390714286

00:12:34.115 --> 00:12:35.943 that would that they of children

NOTE Confidence: 0.850755390714286

 $00:12:35.943 \longrightarrow 00:12:37.098$ without the syndrome,

NOTE Confidence: 0.850755390714286

 $00:12:37.100 \longrightarrow 00:12:38.558$ sorry that were treated with that.

NOTE Confidence: 0.850755390714286

 $00{:}12{:}38.560 \dashrightarrow 00{:}12{:}40.044$ They're just selectively for

NOTE Confidence: 0.850755390714286

00:12:40.044 --> 00:12:41.528 presume obstructive sleep apnea,

NOTE Confidence: 0.850755390714286

 $00{:}12{:}41.530 \dashrightarrow 00{:}12{:}44.188$ never really had a sleep study.

NOTE Confidence: 0.850755390714286

 $00:12:44.190 \longrightarrow 00:12:46.031$ So the question is did they really

NOTE Confidence: 0.850755390714286

00:12:46.031 --> 00:12:47.150 have obstructive sleep apnea,

NOTE Confidence: 0.850755390714286

00:12:47.150 --> 00:12:48.574 did they really have,

NOTE Confidence: 0.850755390714286

 $00:12:48.574 \longrightarrow 00:12:50.710$ did we really require the surgery?

NOTE Confidence: 0.850755390714286

 $00:12:50.710 \longrightarrow 00:12:52.450$ And then tonsillectomy is one of

 $00:12:52.450 \longrightarrow 00:12:53.970$ the most common surgeries performed

NOTE Confidence: 0.850755390714286

00:12:53.970 --> 00:12:55.210 in the United States,

NOTE Confidence: 0.850755390714286

 $00:12:55.210 \longrightarrow 00:12:57.238$ but it still has some complications.

NOTE Confidence: 0.850755390714286

 $00:12:57.240 \longrightarrow 00:12:58.444$ That are not frequent,

NOTE Confidence: 0.850755390714286

00:12:58.444 --> 00:13:00.250 but when they occur they're very

NOTE Confidence: 0.850755390714286

 $00:13:00.309 \longrightarrow 00:13:02.059$ upsetting such for example hemorrhage

NOTE Confidence: 0.850755390714286

 $00:13:02.059 \longrightarrow 00:13:04.503$ pains and families need to be readmitted

NOTE Confidence: 0.850755390714286

 $00{:}13{:}04.503 \dashrightarrow 00{:}13{:}06.715$ to the hospital due to the hemorrhage.

NOTE Confidence: 0.850755390714286

 $00:13:06.720 \longrightarrow 00:13:09.438$ So the risk benefit of it has to be

NOTE Confidence: 0.850755390714286

 $00:13:09.438 \longrightarrow 00:13:11.719$ further studied in this population.

NOTE Confidence: 0.850755390714286

 $00:13:11.720 \longrightarrow 00:13:13.645$ Based on this we they actually one

NOTE Confidence: 0.850755390714286

00:13:13.645 --> 00:13:16.532 that I have that I'm copying with my

NOTE Confidence: 0.850755390714286

 $00{:}13{:}16.532 \dashrightarrow 00{:}13{:}18.532$ colleague Andrew Kelly from endocrinology.

NOTE Confidence: 0.850755390714286

00:13:18.540 --> 00:13:20.916 We decided to study the tolerability,

NOTE Confidence: 0.850755390714286

 $00:13:20.920 \longrightarrow 00:13:22.950$ the family reported perception and

 $00:13:22.950 \longrightarrow 00:13:25.437$ experience of feasibility and also the

NOTE Confidence: 0.850755390714286

 $00:13:25.437 \longrightarrow 00:13:27.407$ accuracy for diagnosis for moderate

NOTE Confidence: 0.850755390714286

 $00:13:27.407 \longrightarrow 00:13:29.711$ to severe obstructive sleep apnea or

NOTE Confidence: 0.850755390714286

00:13:29.711 --> 00:13:31.697 type 2 homeless sleep apnea testing.

NOTE Confidence: 0.850755390714286

 $00:13:31.700 \longrightarrow 00:13:33.863$ So for that we selected a device

NOTE Confidence: 0.850755390714286

 $00:13:33.863 \longrightarrow 00:13:36.080$ that could give us the same signals

NOTE Confidence: 0.850755390714286

 $00{:}13{:}36.080 \dashrightarrow 00{:}13{:}38.072$ like 90% of the signals that we have

NOTE Confidence: 0.850755390714286

00:13:38.072 --> 00:13:39.998 in lab and polysomnography but at

NOTE Confidence: 0.850755390714286

 $00{:}13{:}39.998 \dashrightarrow 00{:}13{:}42.050$ home and we're working with the.

NOTE Confidence: 0.850755390714286

 $00:13:42.050 \longrightarrow 00:13:43.502$ Device that the picture is there

NOTE Confidence: 0.850755390714286

 $00:13:43.502 \longrightarrow 00:13:44.470$ is there is more.

NOTE Confidence: 0.850755390714286

00:13:44.470 --> 00:13:46.238 You will see it in the next picture

NOTE Confidence: 0.850755390714286

 $00:13:46.238 \longrightarrow 00:13:48.032$ how it it is there with the kid

NOTE Confidence: 0.850755390714286

 $00:13:48.032 \longrightarrow 00:13:49.520$ and you see here the technician

NOTE Confidence: 0.850755390714286

 $00:13:49.520 \longrightarrow 00:13:51.522$ is holding the device in the kids.

NOTE Confidence: 0.850755390714286

 $00:13:51.530 \longrightarrow 00:13:53.637$ This is a kid with Down syndrome

 $00:13:53.637 \longrightarrow 00:13:54.540$ who is having

NOTE Confidence: 0.893107832666667

 $00:13:54.609 \longrightarrow 00:13:56.967$ the setup that we do in the lab and

NOTE Confidence: 0.893107832666667

 $00{:}13{:}56.967 \dashrightarrow 00{:}13{:}58.930$ then they go overnight to their

NOTE Confidence: 0.893107832666667

 $00:13:58.930 \longrightarrow 00:14:01.300$ house and they have the home sleep

NOTE Confidence: 0.893107832666667

 $00:14:01.300 \longrightarrow 00:14:03.490$ apnea testing in a different night.

NOTE Confidence: 0.893107832666667

 $00:14:03.490 \longrightarrow 00:14:05.778$ They have an in lab police of no

NOTE Confidence: 0.893107832666667

 $00:14:05.778 \longrightarrow 00:14:08.147$ graphy and we compare that we recruited

NOTE Confidence: 0.893107832666667

 $00{:}14{:}08.147 \dashrightarrow 00{:}14{:}10.984$ children 10 to 20 years and we also

NOTE Confidence: 0.893107832666667

 $00:14:10.984 \longrightarrow 00:14:13.066$ we did a questionnaires about that.

NOTE Confidence: 0.893107832666667

 $00{:}14{:}13.070 \dashrightarrow 00{:}14{:}15.617$ These are the videos that I want to share

NOTE Confidence: 0.893107832666667

 $00{:}14{:}15.617 \dashrightarrow 00{:}14{:}17.840$ with you that we did specifically about

NOTE Confidence: 0.893107832666667

 $00{:}14{:}17.840 \dashrightarrow 00{:}14{:}20.912$ the setup in the hospital of a in lab

NOTE Confidence: 0.893107832666667

 $00{:}14{:}20.912 \dashrightarrow 00{:}14{:}22.662$ polysomnography about what to expect

NOTE Confidence: 0.893107832666667

 $00{:}14{:}22.670 \longrightarrow 00{:}14{:}25.208$ and the one for the setup setup at home.

NOTE Confidence: 0.893107832666667

00:14:25.210 --> 00:14:26.908 The videos have been very informative.

 $00:14:26.910 \longrightarrow 00:14:29.070$ Families have been like very thankful

NOTE Confidence: 0.893107832666667

 $00{:}14{:}29.070 \dashrightarrow 00{:}14{:}31.729$ for us to provide the videos to them

NOTE Confidence: 0.893107832666667

 $00:14:31.729 \longrightarrow 00:14:34.308$ so they can work with the children and

NOTE Confidence: 0.893107832666667

 $00:14:34.308 \longrightarrow 00:14:37.052$ explain to them what to expect overnight.

NOTE Confidence: 0.893107832666667

 $00:14:37.060 \longrightarrow 00:14:39.733$ So the 34 kids were tested when I was

NOTE Confidence: 0.893107832666667

 $00:14:39.733 \longrightarrow 00:14:41.698$ doing these slides and the median

NOTE Confidence: 0.893107832666667

 $00:14:41.698 \longrightarrow 00:14:43.780$ age is there is 16 years.

NOTE Confidence: 0.893107832666667

 $00:14:43.780 \longrightarrow 00:14:45.400$ In addition to the homeless sleep

NOTE Confidence: 0.893107832666667

00:14:45.400 --> 00:14:46.767 apnea testing the little device

NOTE Confidence: 0.893107832666667

00:14:46.767 --> 00:14:48.433 that you that I showed you before,

NOTE Confidence: 0.893107832666667

 $00:14:48.440 \longrightarrow 00:14:50.740$ they were this response socks

NOTE Confidence: 0.893107832666667

 $00{:}14{:}50.740 \dashrightarrow 00{:}14{:}53.040$ that is connected via Bluetooth.

NOTE Confidence: 0.893107832666667

 $00:14:53.040 \longrightarrow 00:14:56.802$ And we had a median or a child that was 14.2.

NOTE Confidence: 0.893107832666667

 $00:14:56.802 \longrightarrow 00:14:59.472$ We had a full range of 4.8 to

NOTE Confidence: 0.893107832666667

 $00:14:59.472 \longrightarrow 00:15:00.936$ 22.8 events per hour.

NOTE Confidence: 0.893107832666667

 $00:15:00.940 \longrightarrow 00:15:03.245$ Of the kids, what you see, many of them,

 $00:15:03.245 \longrightarrow 00:15:05.680$ I mean of most of them were not,

NOTE Confidence: 0.893107832666667

 $00:15:05.680 \longrightarrow 00:15:07.816$ did not have normal sleep studies.

NOTE Confidence: 0.893107832666667

 $00:15:07.820 \longrightarrow 00:15:09.972$ And the total sleep time that we have

NOTE Confidence: 0.893107832666667

00:15:09.972 --> 00:15:12.414 in the lab was about 6 point at home,

NOTE Confidence: 0.893107832666667

00:15:12.420 --> 00:15:14.958 sorry, 6.3 hours.

NOTE Confidence: 0.893107832666667

 $00:15:14.960 \longrightarrow 00:15:16.240$ In terms of the questionnaire

NOTE Confidence: 0.893107832666667

 $00:15:16.240 \longrightarrow 00:15:17.860$ that we ask the families about,

NOTE Confidence: 0.893107832666667

 $00:15:17.860 \longrightarrow 00:15:19.528$ how did it go,

NOTE Confidence: 0.893107832666667

 $00:15:19.528 \longrightarrow 00:15:22.424$ they said that 94% reported that it took less

NOTE Confidence: 0.893107832666667

 $00:15:22.424 \longrightarrow 00:15:24.838$ than 15 minutes for them to set up at home.

NOTE Confidence: 0.893107832666667

 $00:15:24.840 \longrightarrow 00:15:25.980$ What we do in the lab,

NOTE Confidence: 0.893107832666667

 $00:15:25.980 \longrightarrow 00:15:27.870$ we put the EEG leads,

NOTE Confidence: 0.893107832666667

 $00:15:27.870 \longrightarrow 00:15:28.830$ the the eyelids,

NOTE Confidence: 0.893107832666667

 $00:15:28.830 \longrightarrow 00:15:31.540$ we put the belts and then we send

NOTE Confidence: 0.893107832666667

 $00:15:31.540 \longrightarrow 00:15:33.500$ them home with the cannulas.

00:15:33.500 --> 00:15:34.860 They demonstrate to the family

NOTE Confidence: 0.893107832666667

 $00:15:34.860 \longrightarrow 00:15:36.700$ how to put the candle at home,

NOTE Confidence: 0.893107832666667

 $00:15:36.700 \longrightarrow 00:15:38.764$ and the family has only to put the

NOTE Confidence: 0.893107832666667

 $00:15:38.764 \longrightarrow 00:15:40.610$ candle and to put the ball socks.

NOTE Confidence: 0.893107832666667

 $00:15:40.610 \longrightarrow 00:15:42.833$ The system that we sent at home because it

NOTE Confidence: 0.893107832666667

 $00:15:42.833 \longrightarrow 00:15:45.230$ was geared toward sleep disorder breathing,

NOTE Confidence: 0.893107832666667

 $00:15:45.230 \longrightarrow 00:15:46.742$ we did not send the families

NOTE Confidence: 0.893107832666667

 $00:15:46.742 \longrightarrow 00:15:47.750$ home with leg leads.

NOTE Confidence: 0.893107832666667

 $00:15:47.750 \longrightarrow 00:15:49.479$ However, it's something that we could do.

NOTE Confidence: 0.89310783266666700:15:49.480 --> 00:15:49.895 Also,

NOTE Confidence: 0.893107832666667

 $00{:}15{:}49.895 \dashrightarrow 00{:}15{:}51.970$ the home sleep apnea testing

NOTE Confidence: 0.893107832666667

 $00:15:51.970 \longrightarrow 00:15:53.581$ right out-of-the-box does not

NOTE Confidence: 0.893107832666667

 $00{:}15{:}53.581 \dashrightarrow 00{:}15{:}55.566$ have the availability of measure

NOTE Confidence: 0.893107832666667

00:15:55.566 --> 00:15:57.689 entitled CO2 or transcutaneous CO2,

NOTE Confidence: 0.893107832666667 00:15:57.690 --> 00:15:57.973 however, NOTE Confidence: 0.893107832666667

 $00:15:57.973 \longrightarrow 00:16:00.866$ is something that you can do with a with a

 $00:16:00.866 \longrightarrow 00:16:03.122$ device that you adapt and connect to that.

NOTE Confidence: 0.893107832666667

 $00:16:03.130 \longrightarrow 00:16:04.369$ But we didn't want to do that.

NOTE Confidence: 0.893107832666667

 $00{:}16{:}04.370 \dashrightarrow 00{:}16{:}06.494$ We didn't want it to be as simple as

NOTE Confidence: 0.893107832666667

 $00:16:06.494 \longrightarrow 00:16:08.258$ possible so it could be reproducible.

NOTE Confidence: 0.893107832666667

 $00:16:08.260 \longrightarrow 00:16:09.886$ Also you can see there that

NOTE Confidence: 0.893107832666667

 $00:16:09.886 \longrightarrow 00:16:10.970$ the ratings that families.

NOTE Confidence: 0.893107832666667

 $00:16:10.970 \longrightarrow 00:16:13.025$ Provided in terms of placing

NOTE Confidence: 0.893107832666667

 $00:16:13.025 \longrightarrow 00:16:14.258$ the hands oximeter,

NOTE Confidence: 0.893107832666667

 $00:16:14.260 \longrightarrow 00:16:15.892$ the cannula or anything

NOTE Confidence: 0.893107832666667

00:16:15.892 --> 00:16:17.932 come off overnight are high.

NOTE Confidence: 0.893107832666667

00:16:17.940 --> 00:16:19.240 Things may come off overnight

NOTE Confidence: 0.893107832666667

 $00{:}16{:}19.240 \dashrightarrow 00{:}16{:}20.990$ like the ball sacks for example.

NOTE Confidence: 0.893107832666667

 $00{:}16{:}20.990 \dashrightarrow 00{:}16{:}23.814$ However families were able to to replace it.

NOTE Confidence: 0.893107832666667

 $00:16:23.820 \longrightarrow 00:16:25.608$ They think that the test was

NOTE Confidence: 0.893107832666667

 $00:16:25.608 \longrightarrow 00:16:27.554$ usable for them and overall the

00:16:27.554 --> 00:16:29.606 experience was already as good or

NOTE Confidence: 0.893107832666667

00:16:29.606 --> 00:16:33.428 very good by 87% of the families.

NOTE Confidence: 0.893107832666667

 $00:16:33.430 \longrightarrow 00:16:35.726$ Then we finally analyze all the data.

NOTE Confidence: 0.868392037586207

 $00:16:35.730 \longrightarrow 00:16:37.944$ We submitted this paper for publication

NOTE Confidence: 0.868392037586207

 $00:16:37.944 \longrightarrow 00:16:40.712$ and we're waiting for to hear from the

NOTE Confidence: 0.868392037586207

00:16:40.712 --> 00:16:43.309 journals and we ended up recording 63 youth

NOTE Confidence: 0.868392037586207

 $00:16:43.309 \longrightarrow 00:16:45.703$ for participation of of them some decline.

NOTE Confidence: 0.868392037586207

00:16:45.710 --> 00:16:48.377 We consented 43 to participate and of

NOTE Confidence: 0.868392037586207

 $00{:}16{:}48.377 \dashrightarrow 00{:}16{:}51.029$ those 40 completed the study procedures.

NOTE Confidence: 0.868392037586207

 $00:16:51.030 \longrightarrow 00:16:53.094$ So when I hear our children with Down

NOTE Confidence: 0.868392037586207

 $00:16:53.094 \longrightarrow 00:16:54.930$ syndrome they cannot do PSG and say no,

NOTE Confidence: 0.868392037586207

 $00:16:54.930 \longrightarrow 00:16:56.736$ we do have data they can only

NOTE Confidence: 0.868392037586207

 $00:16:56.736 \longrightarrow 00:16:58.645$ three were unable to complete the

NOTE Confidence: 0.868392037586207

 $00:16:58.645 \longrightarrow 00:17:00.085$ complete the study procedures.

NOTE Confidence: 0.868392037586207

 $00:17:00.090 \longrightarrow 00:17:01.460$ One was unable to complete

NOTE Confidence: 0.868392037586207

 $00:17:01.460 \longrightarrow 00:17:03.050$ the eight set and meaning by.

 $00{:}17{:}03.050 \dashrightarrow 00{:}17{:}04.550$ Enable means that sometimes the

NOTE Confidence: 0.868392037586207

00:17:04.550 --> 00:17:06.658 family didn't want to you know when

NOTE Confidence: 0.868392037586207

 $00:17:06.658 \longrightarrow 00:17:08.576$ you all provide research and you are

NOTE Confidence: 0.868392037586207

00:17:08.576 --> 00:17:10.565 gonna be paying for that we we have

NOTE Confidence: 0.868392037586207

 $00{:}17{:}10.565 \dashrightarrow 00{:}17{:}12.280$ one family that really wanted to do

NOTE Confidence: 0.868392037586207

 $00:17:12.280 \longrightarrow 00:17:13.530$ only the anlap polysomnography and

NOTE Confidence: 0.868392037586207

 $00:17:13.530 \longrightarrow 00:17:14.943$ the research slow down so earlier

NOTE Confidence: 0.868392037586207

 $00:17:14.943 \longrightarrow 00:17:16.556$ and then you know went to anything

NOTE Confidence: 0.868392037586207

 $00{:}17{:}16.556 \dashrightarrow 00{:}17{:}18.124$ with that and the other just didn't

NOTE Confidence: 0.868392037586207

 $00:17:18.124 \longrightarrow 00:17:20.254$ want to proceed with the PSG and one

NOTE Confidence: 0.868392037586207

 $00:17:20.254 \longrightarrow 00:17:22.247$ family consent in that ended up not

NOTE Confidence: 0.868392037586207

 $00:17:22.247 \longrightarrow 00:17:23.915$ doing any any of the procedures.

NOTE Confidence: 0.868392037586207

 $00{:}17{:}23.920 \dashrightarrow 00{:}17{:}25.726$ So in terms of which test was

NOTE Confidence: 0.868392037586207

 $00:17:25.726 \longrightarrow 00:17:27.998$ easiest for you as you can see there

NOTE Confidence: 0.868392037586207

 $00:17:27.998 \longrightarrow 00:17:29.798$ most people consider that the home

 $00:17:29.798 \longrightarrow 00:17:31.622$ sleep apnea testing was easier for

NOTE Confidence: 0.868392037586207

 $00:17:31.622 \longrightarrow 00:17:33.425$ them and this is very important.

NOTE Confidence: 0.868392037586207

 $00:17:33.425 \longrightarrow 00:17:35.820$ It's not that we want to necessarily say

NOTE Confidence: 0.868392037586207

 $00:17:35.820 \longrightarrow 00:17:37.731$ that every kid with Down syndrome needs

NOTE Confidence: 0.868392037586207

 $00:17:37.731 \longrightarrow 00:17:39.790$ to have a home sleep apnea testing,

NOTE Confidence: 0.868392037586207

 $00:17:39.790 \longrightarrow 00:17:42.541$ but we are working hard to prove

NOTE Confidence: 0.868392037586207

 $00:17:42.541 \longrightarrow 00:17:44.949$ is that options are necessary,

NOTE Confidence: 0.868392037586207

 $00:17:44.950 \longrightarrow 00:17:46.720$ the choice of families to decide

NOTE Confidence: 0.868392037586207

 $00:17:46.720 \longrightarrow 00:17:48.809$ what test is the best for them.

NOTE Confidence: 0.868392037586207 00:17:48.810 --> 00:17:49.374 For example,

NOTE Confidence: 0.868392037586207

 $00{:}17{:}49.374 \dashrightarrow 00{:}17{:}51.066$ some families may prefer for whatever

NOTE Confidence: 0.868392037586207

 $00:17:51.066 \longrightarrow 00:17:52.743$ reason they in lab tests are not

NOTE Confidence: 0.868392037586207

 $00:17:52.743 \longrightarrow 00:17:54.090$ willing to put anything at home,

NOTE Confidence: 0.868392037586207

 $00{:}17{:}54.090 \dashrightarrow 00{:}17{:}56.448$ or they don't have the the right setup at

NOTE Confidence: 0.868392037586207

00:17:56.448 --> 00:17:58.826 home to contact the study perfectly fine,

NOTE Confidence: 0.868392037586207

 $00:17:58.830 \longrightarrow 00:18:00.546$ they can go to the lab.

 $00:18:00.550 \longrightarrow 00:18:03.799$ Most of the people may be able to do

NOTE Confidence: 0.868392037586207

00:18:03.799 --> 00:18:06.360 it at home. Which states do you prefer?

NOTE Confidence: 0.868392037586207

 $00:18:06.360 \longrightarrow 00:18:08.410$ Most families also prefer home

NOTE Confidence: 0.868392037586207

 $00:18:08.410 \longrightarrow 00:18:09.640$ sleep apnea testing.

NOTE Confidence: 0.868392037586207

00:18:09.640 --> 00:18:11.518 Which test was easier for you?

NOTE Confidence: 0.868392037586207

00:18:11.520 --> 00:18:13.242 You know, most families also mentioned

NOTE Confidence: 0.868392037586207

00:18:13.242 --> 00:18:14.800 that homeless sleep apnea testing,

NOTE Confidence: 0.868392037586207

 $00:18:14.800 \longrightarrow 00:18:16.487$ I'm sorry, was easier for the child.

NOTE Confidence: 0.868392037586207

 $00{:}18{:}16.490 \dashrightarrow 00{:}18{:}18.296$ So it appears that home sleep

NOTE Confidence: 0.868392037586207

 $00:18:18.296 \longrightarrow 00:18:20.222$ apnea testing is feasible and well

NOTE Confidence: 0.868392037586207

 $00:18:20.222 \longrightarrow 00:18:21.538$ accepted by their families.

NOTE Confidence: 0.868392037586207

00:18:21.540 --> 00:18:22.554 And importantly,

NOTE Confidence: 0.868392037586207

 $00{:}18{:}22.554 \dashrightarrow 00{:}18{:}25.596$ regarding the correlation with the inlab

NOTE Confidence: 0.868392037586207

 $00:18:25.596 \longrightarrow 00:18:28.099$ apnea obstructive apnea hypopnea index,

NOTE Confidence: 0.868392037586207

 $00:18:28.100 \longrightarrow 00:18:30.757$ we have there the 95% confidence

00:18:30.757 --> 00:18:33.079 intervals in Gray and the fitted

NOTE Confidence: 0.868392037586207

 $00:18:33.079 \longrightarrow 00:18:35.189$ values in the line in blue.

NOTE Confidence: 0.868392037586207

 $00:18:35.190 \longrightarrow 00:18:36.798$ On the X axis,

NOTE Confidence: 0.868392037586207

00:18:36.798 --> 00:18:39.210 we had them in lab polysomnography

NOTE Confidence: 0.868392037586207

 $00:18:39.299 \longrightarrow 00:18:41.007$ obstructive apnea hypopnea index

NOTE Confidence: 0.868392037586207

00:18:41.007 --> 00:18:44.230 on the Y axis on in orange,

NOTE Confidence: 0.868392037586207

00:18:44.230 --> 00:18:46.141 we have the home sleep apnea testing

NOTE Confidence: 0.868392037586207

 $00{:}18{:}46.141 \dashrightarrow 00{:}18{:}48.215$ and we can see that the correlation

NOTE Confidence: 0.868392037586207

00:18:48.215 --> 00:18:50.498 is very high with the high sensitivity

NOTE Confidence: 0.868392037586207

00:18:50.498 --> 00:18:52.266 and very high specificity,

NOTE Confidence: 0.868392037586207

 $00:18:52.270 \longrightarrow 00:18:53.930$ something that is very important

NOTE Confidence: 0.86839203758620700:18:53.930 --> 00:18:54.926 to point out.

NOTE Confidence: 0.868392037586207

 $00:18:54.930 \longrightarrow 00:18:57.378$ When you do a test and you are

NOTE Confidence: 0.868392037586207

00:18:57.378 --> 00:19:00.028 going to decide if you're a pedic,

NOTE Confidence: 0.868392037586207

00:19:00.030 --> 00:19:02.634 if therapeutic you're going to have

NOTE Confidence: 0.868392037586207

 $00:19:02.634 \longrightarrow 00:19:04.770$ the rapeutic decision with that test.

 $00:19:04.770 \dashrightarrow 00:19:06.714$ You know what matters is in the case

NOTE Confidence: 0.868392037586207

00:19:06.714 --> 00:19:08.453 of will say it's not necessarily

NOTE Confidence: 0.868392037586207

 $00:19:08.453 \longrightarrow 00:19:10.241$ that they compare one to one,

NOTE Confidence: 0.868392037586207

 $00:19:10.250 \longrightarrow 00:19:12.970$ that for example if I do have 30

NOTE Confidence: 0.868392037586207

00:19:12.970 --> 00:19:15.608 here or HIV in the inland PSG,

NOTE Confidence: 0.7276868825

 $00:19:15.610 \longrightarrow 00:19:17.746$ I have the same 30 into 8 set.

NOTE Confidence: 0.7276868825

 $00:19:17.750 \longrightarrow 00:19:18.990$ That's not what really matters.

NOTE Confidence: 0.7276868825

 $00{:}19{:}18.990 \dashrightarrow 00{:}19{:}21.862$ What matter is that with 30 for example

NOTE Confidence: 0.7276868825

00:19:21.862 --> 00:19:24.609 in the inland PSG I will say OK,

NOTE Confidence: 0.7276868825

 $00:19:24.610 \longrightarrow 00:19:26.626$ your kid needs treatment and if they

NOTE Confidence: 0.7276868825

 $00{:}19{:}26.626 \dashrightarrow 00{:}19{:}28.912$ have 20 in the homeless lipner testing

NOTE Confidence: 0.7276868825

 $00:19:28.912 \dashrightarrow 00:19:31.310$ most likely I would say the same.

NOTE Confidence: 0.7276868825

 $00{:}19{:}31.310 \dashrightarrow 00{:}19{:}33.172$ So that will really matters is that

NOTE Confidence: 0.7276868825

 $00:19:33.172 \longrightarrow 00:19:34.850$ we provide families that opportunity.

NOTE Confidence: 0.7276868825

 $00:19:34.850 \longrightarrow 00:19:36.285$ Integrated home and eventually you

 $00{:}19{:}36.285 \dashrightarrow 00{:}19{:}38.220$ know our dream would talk about all

NOTE Confidence: 0.7276868825

 $00:19:38.220 \longrightarrow 00:19:39.795$ all the time about this would be

NOTE Confidence: 0.7276868825

 $00:19:39.795 \longrightarrow 00:19:41.532$ that when we had these families from

NOTE Confidence: 0.7276868825

00:19:41.532 --> 00:19:43.326 North Dakota or the coming far away,

NOTE Confidence: 0.7276868825

00:19:43.326 --> 00:19:44.414 they want to participate,

NOTE Confidence: 0.7276868825

 $00:19:44.420 \longrightarrow 00:19:46.380$ we should be able to ship them the

NOTE Confidence: 0.7276868825

00:19:46.380 --> 00:19:48.188 device and to partner with the Sleep

NOTE Confidence: 0.7276868825

 $00:19:48.188 \longrightarrow 00:19:50.416$ lab there who can do the setup or

NOTE Confidence: 0.7276868825

 $00:19:50.416 \longrightarrow 00:19:52.246$ neurology office or something like that

NOTE Confidence: 0.7276868825

 $00:19:52.246 \longrightarrow 00:19:54.716$ and then we can read the study remote.

NOTE Confidence: 0.7276868825

 $00:19:54.720 \longrightarrow 00:19:55.972$ We're not there yet.

NOTE Confidence: 0.7276868825

00:19:55.972 --> 00:19:58.231 Another point that is is very important

NOTE Confidence: 0.7276868825

 $00:19:58.231 \longrightarrow 00:20:00.422$ is that the total sleep time at

NOTE Confidence: 0.7276868825

 $00{:}20{:}00.422 \dashrightarrow 00{:}20{:}02.619$ home was significantly different,

NOTE Confidence: 0.7276868825

 $00:20:02.620 \longrightarrow 00:20:05.760$ like an hour longer than the PSG in the lab.

NOTE Confidence: 0.7276868825

 $00:20:05.760 \longrightarrow 00:20:07.524$ And this is very important because

00:20:07.524 --> 00:20:08.700 if you have awakenings,

NOTE Confidence: 0.7276868825

 $00:20:08.700 \longrightarrow 00:20:10.849$ the more sleep you capture the better.

NOTE Confidence: 0.7276868825

 $00:20:10.850 \longrightarrow 00:20:13.274$ And in the lab as you know them,

NOTE Confidence: 0.7276868825

 $00:20:13.280 \longrightarrow 00:20:15.584$ at least here around 6:00 or 6:30 AM

NOTE Confidence: 0.7276868825

 $00:20:15.584 \longrightarrow 00:20:17.620$ they start waking up everybody because

NOTE Confidence: 0.7276868825

 $00:20:17.620 \longrightarrow 00:20:20.162$ the the shift ends, people leave.

NOTE Confidence: 0.7276868825

 $00:20:20.162 \longrightarrow 00:20:22.568$ However at home they can start

NOTE Confidence: 0.7276868825

 $00:20:22.568 \longrightarrow 00:20:25.070$ the the sleep when they want.

NOTE Confidence: 0.7276868825

00:20:25.070 --> 00:20:27.518 The usual time and they can wake up at

NOTE Confidence: 0.7276868825

 $00:20:27.518 \longrightarrow 00:20:30.072$ the usual time and that's why we had

NOTE Confidence: 0.7276868825

00:20:30.072 --> 00:20:32.500 longer sleep time and that provided

NOTE Confidence: 0.7276868825

 $00{:}20{:}32.500 \dashrightarrow 00{:}20{:}36.478$ us more data, more RAM mostly too.

NOTE Confidence: 0.7276868825

 $00{:}20{:}36.480 \longrightarrow 00{:}20{:}39.028$ And this is a child with Down

NOTE Confidence: 0.7276868825

00:20:39.028 --> 00:20:40.120 syndrome and CPAP.

NOTE Confidence: 0.7276868825

00:20:40.120 --> 00:20:41.758 You know, typically parents say no,

 $00:20:41.760 \longrightarrow 00:20:43.016$ they will not be able to use it.

NOTE Confidence: 0.7276868825

 $00:20:43.020 \longrightarrow 00:20:44.118$ And then we have, you know,

NOTE Confidence: 0.7276868825

 $00:20:44.120 \longrightarrow 00:20:46.096$ if you have a child of three years

NOTE Confidence: 0.7276868825

 $00:20:46.096 \longrightarrow 00:20:48.379$ or so or two like this little one,

NOTE Confidence: 0.7276868825

 $00:20:48.380 \longrightarrow 00:20:50.340$ you know that there's no coercion in

NOTE Confidence: 0.7276868825

 $00:20:50.340 \longrightarrow 00:20:52.340$ the world that would make her look,

NOTE Confidence: 0.7276868825

 $00:20:52.340 \longrightarrow 00:20:53.556$ smile with the mask,

NOTE Confidence: 0.7276868825

 $00:20:53.556 \longrightarrow 00:20:53.860$ anything.

NOTE Confidence: 0.7276868825

00:20:53.860 --> 00:20:56.320 It's just not really having a

NOTE Confidence: 0.7276868825

 $00:20:56.320 \longrightarrow 00:20:58.490$ good time at that time.

NOTE Confidence: 0.7276868825

 $00{:}20{:}58.490 \dashrightarrow 00{:}21{:}00.026$ So with that I will change gears and

NOTE Confidence: 0.7276868825

 $00:21:00.026 \longrightarrow 00:21:01.721$ I will talk a little bit about the

NOTE Confidence: 0.7276868825

 $00:21:01.721 \longrightarrow 00:21:03.355$ other brand that we have which is

NOTE Confidence: 0.7276868825

 $00:21:03.355 \longrightarrow 00:21:04.843$ part in children with Down syndrome.

NOTE Confidence: 0.7276868825

 $00{:}21{:}04.850 \dashrightarrow 00{:}21{:}07.755$ So this is a an initiative called

NOTE Confidence: 0.7276868825

 $00:21:07.755 \longrightarrow 00:21:10.144$ an R6133 and the R61 is preliminary

 $00:21:10.144 \longrightarrow 00:21:12.386$ work to launch a clinical trial

NOTE Confidence: 0.7276868825

 $00:21:12.386 \longrightarrow 00:21:14.760$ that happens during the R33 phase.

NOTE Confidence: 0.7276868825

 $00:21:14.760 \longrightarrow 00:21:17.540$ So what we do for the R61 study,

NOTE Confidence: 0.7276868825

 $00:21:17.540 \longrightarrow 00:21:20.235$ we do the qualitative study where we

NOTE Confidence: 0.7276868825

 $00{:}21{:}20.235 \dashrightarrow 00{:}21{:}22.451$ interview20 families in Philadelphia

NOTE Confidence: 0.7276868825

 $00:21:22.451 \longrightarrow 00:21:24.646$ and 20 families in Cincinnati

NOTE Confidence: 0.7276868825

00:21:24.646 --> 00:21:26.646 because it's a two side study,

NOTE Confidence: 0.7276868825

 $00:21:26.650 \longrightarrow 00:21:29.100$ the parents of children with Down syndrome.

NOTE Confidence: 0.7276868825

00:21:29.100 --> 00:21:29.864 Unattractively Batnaya,

NOTE Confidence: 0.7276868825

 $00{:}21{:}29.864 \dashrightarrow 00{:}21{:}32.538$ who had been treated with CPAP or

NOTE Confidence: 0.7276868825

 $00{:}21{:}32.538 \dashrightarrow 00{:}21{:}34.690$ Bipap for greater than six months

NOTE Confidence: 0.7276868825

00:21:34.690 --> 00:21:36.807 to see what their experience was

NOTE Confidence: 0.7276868825

 $00:21:36.807 \longrightarrow 00:21:38.919$ to to inform the development of

NOTE Confidence: 0.7276868825

 $00:21:38.919 \longrightarrow 00:21:40.436$ the randomized control trial that

NOTE Confidence: 0.7276868825

 $00:21:40.436 \longrightarrow 00:21:41.120$ we're doing now.

 $00:21:43.150 \longrightarrow 00:21:44.926$ So the strategies that we have

NOTE Confidence: 0.823943624615385

00:21:44.926 --> 00:21:46.949 to increase Bob use in any child,

NOTE Confidence: 0.823943624615385

 $00:21:46.950 \longrightarrow 00:21:49.296$ but specifically in those with developmental

NOTE Confidence: 0.823943624615385

 $00:21:49.296 \longrightarrow 00:21:51.169$ disabilities and Down syndrome is

NOTE Confidence: 0.823943624615385

 $00:21:51.169 \longrightarrow 00:21:52.947$ to meet the families where they are.

NOTE Confidence: 0.823943624615385

 $00:21:52.950 \longrightarrow 00:21:54.210$ We cannot tell them, OK,

NOTE Confidence: 0.823943624615385

 $00:21:54.210 \longrightarrow 00:21:56.130$ you need to start using this every night.

NOTE Confidence: 0.823943624615385

 $00:21:56.130 \longrightarrow 00:21:58.086$ Now we know that some families

NOTE Confidence: 0.823943624615385

 $00:21:58.086 \longrightarrow 00:22:00.608$ might be able to, most will not.

NOTE Confidence: 0.823943624615385

 $00:22:00.608 \longrightarrow 00:22:02.638$ So we'll start with the

NOTE Confidence: 0.823943624615385

 $00{:}22{:}02.638 \dashrightarrow 00{:}22{:}03.450$ desensitization process.

NOTE Confidence: 0.823943624615385

 $00:22:03.450 \longrightarrow 00:22:05.070$ We work closely with

NOTE Confidence: 0.823943624615385

00:22:05.070 --> 00:22:05.880 behavioral psychologists.

NOTE Confidence: 0.823943624615385

 $00:22:05.880 \longrightarrow 00:22:08.238$ We have great partners in behavioral

NOTE Confidence: 0.823943624615385

 $00:22:08.238 \longrightarrow 00:22:10.190$ psychology embedded in our team.

NOTE Confidence: 0.823943624615385

 $00{:}22{:}10.190 \dashrightarrow 00{:}22{:}12.470$ They streamlined the bedtime routine.

00:22:12.470 --> 00:22:14.210 So it's important that the family.

NOTE Confidence: 0.823943624615385

 $00:22:14.210 \longrightarrow 00:22:15.386$ Have established bedtime

NOTE Confidence: 0.823943624615385

 $00:22:15.386 \longrightarrow 00:22:17.738$ routine that can work for them.

NOTE Confidence: 0.823943624615385

00:22:17.740 --> 00:22:19.666 It cannot be something prescribed that

NOTE Confidence: 0.823943624615385

 $00:22:19.666 \longrightarrow 00:22:22.652$ it can be and to use the mask initially

NOTE Confidence: 0.823943624615385

 $00:22:22.652 \longrightarrow 00:22:25.160$ during an activity that the child enjoys.

NOTE Confidence: 0.823943624615385

 $00:22:25.160 \longrightarrow 00:22:26.942$ Sometimes they like to call with

NOTE Confidence: 0.823943624615385

 $00:22:26.942 \longrightarrow 00:22:29.100$ the parents or they like to watch

NOTE Confidence: 0.823943624615385

 $00{:}22{:}29.100 \dashrightarrow 00{:}22{:}30.918$ specific cartoon for example to do

NOTE Confidence: 0.823943624615385

 $00:22:30.918 \longrightarrow 00:22:32.875$ that and to do the role modeling.

NOTE Confidence: 0.823943624615385

00:22:32.880 --> 00:22:33.976 So something that's positive

NOTE Confidence: 0.823943624615385

 $00:22:33.976 \longrightarrow 00:22:35.917$ every time that the word the mask

NOTE Confidence: 0.823943624615385

00:22:35.917 --> 00:22:37.157 and the world falls apart,

NOTE Confidence: 0.823943624615385

00:22:37.160 --> 00:22:38.240 it's like if you're doing

NOTE Confidence: 0.823943624615385

00:22:38.240 --> 00:22:39.320 potty training with your kids,

 $00:22:39.320 \longrightarrow 00:22:41.290$ like yeah, this is amazing,

NOTE Confidence: 0.823943624615385 00:22:41.290 --> 00:22:41.734 etcetera, NOTE Confidence: 0.823943624615385

 $00:22:41.734 \longrightarrow 00:22:44.398$ something that you receive positive feedback.

NOTE Confidence: 0.823943624615385

 $00:22:44.400 \longrightarrow 00:22:46.086$ Most likely you will continue to

NOTE Confidence: 0.823943624615385

 $00:22:46.086 \longrightarrow 00:22:48.374$ do and that's what we have to work

NOTE Confidence: 0.823943624615385

 $00:22:48.374 \longrightarrow 00:22:50.030$ with the families and the parents.

NOTE Confidence: 0.823943624615385

 $00:22:50.030 \longrightarrow 00:22:51.590$ When the parents buy in,

NOTE Confidence: 0.823943624615385

 $00:22:51.590 \longrightarrow 00:22:53.470$ everything runs very smoothly and

NOTE Confidence: 0.823943624615385

 $00:22:53.470 \longrightarrow 00:22:55.969$ many times our job or the job.

NOTE Confidence: 0.823943624615385

00:22:55.970 --> 00:22:58.034 This psychologist is like to convince

NOTE Confidence: 0.823943624615385

 $00:22:58.034 \longrightarrow 00:23:00.058$ the parents that they can do it,

NOTE Confidence: 0.823943624615385

 $00:23:00.060 \longrightarrow 00:23:03.096$ that they're able to do this.

NOTE Confidence: 0.823943624615385

 $00:23:03.100 \longrightarrow 00:23:04.920$ So we have different sessions per day.

NOTE Confidence: 0.823943624615385

00:23:04.920 --> 00:23:06.864 What we do for them to start using path,

 $\begin{aligned} & \text{NOTE Confidence: } 0.823943624615385 \\ & 00:23:06.870 --> 00:23:07.482 \text{ for example,} \end{aligned}$

NOTE Confidence: 0.823943624615385

 $00:23:07.482 \longrightarrow 00:23:09.318$ to begin with an activity that

 $00:23:09.318 \longrightarrow 00:23:10.789$ is calming and enjoyable.

NOTE Confidence: 0.823943624615385

00:23:10.790 --> 00:23:12.338 Anything that they like to do,

NOTE Confidence: 0.823943624615385

 $00:23:12.340 \longrightarrow 00:23:14.756$ like the tablets, help a lot with that.

NOTE Confidence: 0.823943624615385 00:23:14.760 --> 00:23:17.020 For example,

NOTE Confidence: 0.823943624615385

 $00:23:17.020 \longrightarrow 00:23:19.295$ praise the kid a lot with clapping

NOTE Confidence: 0.823943624615385

 $00:23:19.295 \longrightarrow 00:23:20.536$ or positive reinforcements and

NOTE Confidence: 0.823943624615385

 $00:23:20.536 \longrightarrow 00:23:21.556$ with and as I said,

NOTE Confidence: 0.823943624615385

 $00:23:21.560 \longrightarrow 00:23:23.422$ and also remind them that the adult

NOTE Confidence: 0.823943624615385

 $00{:}23{:}23.422 \dashrightarrow 00{:}23{:}25.775$ would be the one taking the mask off of.

NOTE Confidence: 0.823943624615385

 $00:23:25.780 \longrightarrow 00:23:27.979$ Let's put the mask on, it doesn't matter.

NOTE Confidence: 0.823943624615385

 $00:23:27.979 \longrightarrow 00:23:28.858$ It's 5 seconds.

NOTE Confidence: 0.823943624615385

00:23:28.860 --> 00:23:30.740 We're going to build up on that time,

NOTE Confidence: 0.823943624615385

 $00{:}23{:}30.740 \dashrightarrow 00{:}23{:}32.468$ little by little until they get.

NOTE Confidence: 0.823943624615385 00:23:32.470 --> 00:23:33.208 Used to it. NOTE Confidence: 0.823943624615385

 $00:23:33.208 \longrightarrow 00:23:35.283$ Basically all kids and all of us who

00:23:35.283 --> 00:23:37.320 were children we were looking at for

NOTE Confidence: 0.823943624615385

 $00{:}23{:}37.320 \dashrightarrow 00{:}23{:}39.698$ our parents and looking for their approval.

NOTE Confidence: 0.823943624615385

 $00:23:39.700 \longrightarrow 00:23:41.268$ So that's where we have to work

NOTE Confidence: 0.823943624615385

 $00:23:41.268 \longrightarrow 00:23:42.839$ with the bond of the caregiver.

NOTE Confidence: 0.857112731111111

 $00:23:45.550 \longrightarrow 00:23:47.335$ So we also said that they need

NOTE Confidence: 0.857112731111111

 $00:23:47.335 \longrightarrow 00:23:49.489$ to try to ignore the negative

NOTE Confidence: 0.857112731111111

 $00:23:49.489 \longrightarrow 00:23:51.684$ behavior similar as potty training.

NOTE Confidence: 0.857112731111111

00:23:51.690 --> 00:23:54.250 For example, try to stay calm and positive

NOTE Confidence: 0.857112731111111

 $00:23:54.250 \longrightarrow 00:23:56.432$ gently got the the hands out if

NOTE Confidence: 0.857112731111111

 $00:23:56.432 \longrightarrow 00:23:59.054$ the kid wants to remove the mask during

NOTE Confidence: 0.857112731111111

 $00{:}23{:}59.054 \dashrightarrow 00{:}24{:}01.014$ the desensitization process and repeat

NOTE Confidence: 0.857112731111111

 $00:24:01.014 \longrightarrow 00:24:04.007$ the same task until the child is cooperative.

NOTE Confidence: 0.857112731111111

 $00:24:04.010 \longrightarrow 00:24:06.458$ Typically we do not recommend that they put

NOTE Confidence: 0.857112731111111

 $00:24:06.458 \longrightarrow 00:24:09.186$ the mask on once the child is in deep sleep.

NOTE Confidence: 0.857112731111111

 $00:24:09.190 \longrightarrow 00:24:11.108$ It would work for the treatment but

NOTE Confidence: 0.857112731111111

 $00:24:11.108 \longrightarrow 00:24:13.670$ for one hour or two, but then we all

 $00:24:13.670 \longrightarrow 00:24:15.270$ have awakenings during the night.

NOTE Confidence: 0.857112731111111

00:24:15.270 --> 00:24:16.595 And if you have something

NOTE Confidence: 0.857112731111111

00:24:16.595 --> 00:24:17.655 that you didn't have,

NOTE Confidence: 0.857112731111111

00:24:17.660 --> 00:24:19.404 when you fall asleep you don't have that

NOTE Confidence: 0.857112731111111

00:24:19.404 --> 00:24:20.927 association and you will remove everything,

NOTE Confidence: 0.857112731111111

 $00:24:20.930 \longrightarrow 00:24:21.980$ which is worse.

NOTE Confidence: 0.857112731111111

 $00:24:21.980 \longrightarrow 00:24:24.080$ So it's better to create the

NOTE Confidence: 0.857112731111111

 $00{:}24{:}24.080 \dashrightarrow 00{:}24{:}25.994$ association during sleep time with

NOTE Confidence: 0.857112731111111

 $00:24:25.994 \longrightarrow 00:24:27.869$ the interface and the headgear,

NOTE Confidence: 0.857112731111111

 $00:24:27.870 \longrightarrow 00:24:31.128$ and then things will roll good.

NOTE Confidence: 0.857112731111111

 $00:24:31.130 \longrightarrow 00:24:33.418$ And these are some of the quotes that

NOTE Confidence: 0.857112731111111

 $00:24:33.418 \longrightarrow 00:24:35.890$ I have there of the families that

NOTE Confidence: 0.857112731111111

 $00{:}24{:}35.890 \dashrightarrow 00{:}24{:}38.550$ participate in the R61 phase of our study.

NOTE Confidence: 0.857112731111111

 $00{:}24{:}38.550 \dashrightarrow 00{:}24{:}41.062$ We divided them in those who are higher

NOTE Confidence: 0.857112731111111

 $00:24:41.062 \longrightarrow 00:24:43.568$ rent or low adherence and you know,

 $00:24:43.570 \longrightarrow 00:24:46.146$ they they provide great input for us.

NOTE Confidence: 0.857112731111111

 $00:24:46.150 \longrightarrow 00:24:47.083$ Like for example,

NOTE Confidence: 0.857112731111111

 $00:24:47.083 \longrightarrow 00:24:48.949$ let the child dictate the timeline

NOTE Confidence: 0.857112731111111

 $00:24:48.949 \longrightarrow 00:24:50.741$ gives some ownership filled with

NOTE Confidence: 0.857112731111111

 $00:24:50.741 \longrightarrow 00:24:52.526$ the personalizing of the machine.

NOTE Confidence: 0.857112731111111

 $00:24:52.530 \longrightarrow 00:24:53.909$ In their case, they bought a ribbon.

NOTE Confidence: 0.857112731111111

 $00:24:53.910 \longrightarrow 00:24:55.569$ We all the time say with the

NOTE Confidence: 0.857112731111111

 $00:24:55.569 \longrightarrow 00:24:56.854$ families to the kids, OK,

NOTE Confidence: 0.857112731111111

 $00:24:56.854 \longrightarrow 00:24:57.830$ this is your machine,

NOTE Confidence: 0.857112731111111

00:24:57.830 --> 00:24:59.612 this is you or you're going to give it

NOTE Confidence: 0.857112731111111

 $00:24:59.612 \longrightarrow 00:25:01.739$ a name and people come up with the most.

NOTE Confidence: 0.857112731111111

 $00:25:01.740 \longrightarrow 00:25:02.262$ Surprising name.

NOTE Confidence: 0.857112731111111

 $00{:}25{:}02.262 \dashrightarrow 00{:}25{:}04.089$ You know I learned so much and

NOTE Confidence: 0.857112731111111

 $00:25:04.089 \longrightarrow 00:25:05.796$ that's what I like working with kids

NOTE Confidence: 0.857112731111111

 $00:25:05.800 \longrightarrow 00:25:07.613$ and also families say they need to

NOTE Confidence: 0.857112731111111

 $00{:}25{:}07.613 \dashrightarrow 00{:}25{:}09.477$ figure it out how to make it fun.

 $00:25:09.480 \longrightarrow 00:25:11.100$ Families have said that their

NOTE Confidence: 0.857112731111111

 $00:25:11.100 \longrightarrow 00:25:13.069$ children are more visual and they

NOTE Confidence: 0.857112731111111

 $00:25:13.069 \longrightarrow 00:25:14.809$ that's why we developed the videos

NOTE Confidence: 0.857112731111111

 $00:25:14.809 \longrightarrow 00:25:16.858$ so they have something with that.

NOTE Confidence: 0.857112731111111

 $00:25:16.860 \longrightarrow 00:25:18.505$ We also develop social stories

NOTE Confidence: 0.857112731111111

 $00:25:18.505 \longrightarrow 00:25:20.480$ with the name of the kid.

NOTE Confidence: 0.857112731111111

 $00:25:20.480 \longrightarrow 00:25:20.712$ OK,

NOTE Confidence: 0.857112731111111

 $00:25:20.712 \longrightarrow 00:25:21.408$ this is Johnny.

NOTE Confidence: 0.857112731111111

00:25:21.408 --> 00:25:23.684 I'm going to work his CPAP and this is

NOTE Confidence: 0.857112731111111

 $00:25:23.684 \longrightarrow 00:25:25.334$ for Johnny doing his bedtime routine.

NOTE Confidence: 0.857112731111111

 $00:25:25.340 \longrightarrow 00:25:27.868$ He's sort of like that that we materials

NOTE Confidence: 0.857112731111111

 $00:25:27.868 \longrightarrow 00:25:30.089$ that we provide for the family.

NOTE Confidence: 0.857112731111111 00:25:30.090 --> 00:25:30.604 You know,

NOTE Confidence: 0.857112731111111

 $00:25:30.604 \longrightarrow 00:25:32.146$ some parents have reported that the

NOTE Confidence: 0.857112731111111

 $00:25:32.146 \longrightarrow 00:25:34.085$ idea that would be good to write a

 $00:25:34.085 \longrightarrow 00:25:35.556$ book about children with sleep apnea

NOTE Confidence: 0.857112731111111

 $00{:}25{:}35.556 \dashrightarrow 00{:}25{:}37.320$ always say so other families can help

NOTE Confidence: 0.857112731111111

 $00:25:37.320 \longrightarrow 00:25:39.290$ with that and also the importance of

NOTE Confidence: 0.857112731111111

 $00:25:39.290 \longrightarrow 00:25:40.995$ role modeling of having someone who

NOTE Confidence: 0.857112731111111

 $00:25:40.995 \longrightarrow 00:25:43.027$ looks like them to come up with that.

NOTE Confidence: 0.857112731111111

 $00:25:43.030 \longrightarrow 00:25:44.738$ So it's something that I ask of

NOTE Confidence: 0.857112731111111

 $00:25:44.738 \longrightarrow 00:25:46.628$ my patients who are of age or

NOTE Confidence: 0.857112731111111

00:25:46.628 --> 00:25:47.728 participating in social media

NOTE Confidence: 0.857112731111111

 $00:25:47.728 \longrightarrow 00:25:49.429$ with Down syndrome who are bad.

NOTE Confidence: 0.857112731111111

00:25:49.430 --> 00:25:50.048 And, you know,

NOTE Confidence: 0.857112731111111

 $00{:}25{:}50.048 \dashrightarrow 00{:}25{:}51.078$ you will be surprised because

NOTE Confidence: 0.857112731111111

00:25:51.078 --> 00:25:52.852 many do and say OK, do you TikTok,

NOTE Confidence: 0.857112731111111

 $00{:}25{:}52.852 \dashrightarrow 00{:}25{:}54.894$ do you have Instagram? Ohh yeah, I do.

NOTE Confidence: 0.857112731111111

 $00:25:54.894 \longrightarrow 00:25:55.110$ OK.

NOTE Confidence: 0.857112731111111

 $00:25:55.110 \longrightarrow 00:25:56.356$ So why don't you do one when

NOTE Confidence: 0.857112731111111

00:25:56.356 --> 00:25:57.120 you're wearing your mask,

00:25:57.120 --> 00:25:59.206 you will be helping so many children,

NOTE Confidence: 0.857112731111111

 $00:25:59.210 \longrightarrow 00:26:00.706$ you know, social media.

NOTE Confidence: 0.857112731111111

 $00:26:00.706 \longrightarrow 00:26:02.576$ There's so many tentacles that

NOTE Confidence: 0.857112731111111

 $00:26:02.576 \longrightarrow 00:26:03.938$ we don't know of.

NOTE Confidence: 0.857112731111111

 $00:26:03.940 \longrightarrow 00:26:06.236$ It would be way more empowering for kids

NOTE Confidence: 0.857112731111111

 $00{:}26{:}06.236 \dashrightarrow 00{:}26{:}08.360$ with Down syndrome than seeing them.

NOTE Confidence: 0.857112731111111

 $00:26:08.360 \longrightarrow 00:26:09.945$ They're seeing a kid without

NOTE Confidence: 0.857112731111111

 $00{:}26{:}09.945 \dashrightarrow 00{:}26{:}11.213$ developmental disability of the

NOTE Confidence: 0.857112731111111

 $00{:}26{:}11.213 \dashrightarrow 00{:}26{:}12.757$ doctor playing with the machine.

NOTE Confidence: 0.89459415

00:26:12.760 --> 00:26:14.580 If I do it, nobody will. I won't.

NOTE Confidence: 0.89459415

00:26:14.580 --> 00:26:16.416 I won't get any hits, you know,

NOTE Confidence: 0.89459415

00:26:16.416 --> 00:26:18.160 Tick Tock will most likely will fire me,

NOTE Confidence: 0.89459415

 $00{:}26{:}18.160 \dashrightarrow 00{:}26{:}20.575$ but with the kids will be better.

NOTE Confidence: 0.89459415

00:26:20.580 --> 00:26:22.736 It's also to do the positive reinforcement,

NOTE Confidence: 0.89459415

 $00:26:22.740 \longrightarrow 00:26:24.574$ as it will, as we said there,

 $00:26:24.580 \longrightarrow 00:26:25.680$ to make it fun,

NOTE Confidence: 0.89459415

 $00:26:25.680 \longrightarrow 00:26:28.780$ to get them to make it play with the mask,

NOTE Confidence: 0.89459415

 $00:26:28.780 \longrightarrow 00:26:30.920$ to make it, make it them, be familiar,

NOTE Confidence: 0.89459415

 $00:26:30.920 \longrightarrow 00:26:32.950$ that is part of them and also

NOTE Confidence: 0.89459415

 $00:26:32.950 \longrightarrow 00:26:34.477$ something that is so important.

NOTE Confidence: 0.89459415

00:26:34.480 --> 00:26:37.120 Every family, but even more so with those

NOTE Confidence: 0.89459415

 $00{:}26{:}37.120 \dashrightarrow 00{:}26{:}38.884$ with developmental disabilities is the

NOTE Confidence: 0.89459415

00:26:38.884 --> 00:26:40.972 importance of social support in both.

NOTE Confidence: 0.89459415

 $00:26:40.980 \longrightarrow 00:26:42.492$ In kids who were adherent or and

NOTE Confidence: 0.89459415

 $00:26:42.492 \longrightarrow 00:26:43.840$ those who were not adherents,

NOTE Confidence: 0.89459415

 $00:26:43.840 \longrightarrow 00:26:45.288$ families reported that the

NOTE Confidence: 0.89459415

 $00:26:45.288 \longrightarrow 00:26:47.460$ family has to work as as,

NOTE Confidence: 0.89459415

 $00:26:47.460 \longrightarrow 00:26:48.666$ as a group that many times

NOTE Confidence: 0.89459415

 $00:26:48.666 \longrightarrow 00:26:50.060$ is too much on the parent,

NOTE Confidence: 0.89459415

 $00:26:50.060 \longrightarrow 00:26:51.680$ that parents is typically the

NOTE Confidence: 0.89459415

 $00:26:51.680 \longrightarrow 00:26:54.020$ man and they have to to work

00:26:54.020 --> 00:26:56.136 with some other person you know.

NOTE Confidence: 0.89459415

 $00:26:56.136 \longrightarrow 00:26:58.992$ So they can take a night off.

NOTE Confidence: 0.89459415

 $00:26:59.000 \longrightarrow 00:27:01.696$ Both parents have to be in the same

NOTE Confidence: 0.89459415

 $00:27:01.696 \longrightarrow 00:27:05.000$ in in the same page on the same page.

NOTE Confidence: 0.89459415

00:27:05.000 --> 00:27:06.100 And this is data,

NOTE Confidence: 0.89459415

 $00{:}27{:}06.100 \dashrightarrow 00{:}27{:}08.100$ a retrospective data from our lab over

NOTE Confidence: 0.89459415

00:27:08.100 --> 00:27:09.876 cohort of children with Down syndrome

NOTE Confidence: 0.89459415

 $00:27:09.876 \longrightarrow 00:27:11.900$ that we have followed for two years

NOTE Confidence: 0.89459415

 $00:27:11.900 \longrightarrow 00:27:13.922$ and we are analyzing how is their

NOTE Confidence: 0.89459415

 $00:27:13.922 \longrightarrow 00:27:16.334$ path trajectory of adherence over time.

NOTE Confidence: 0.89459415

 $00{:}27{:}16.340 \dashrightarrow 00{:}27{:}18.734$ And you can see there in we have the

NOTE Confidence: 0.89459415

 $00{:}27{:}18.734 \longrightarrow 00{:}27{:}20.945$ different groups in blue from zero to

NOTE Confidence: 0.89459415

 $00{:}27{:}20.945 \dashrightarrow 00{:}27{:}23.109$ six months from initiation to six months

NOTE Confidence: 0.89459415

00:27:23.109 --> 00:27:25.782 after that then you read six months to 12,

NOTE Confidence: 0.89459415

 $00:27:25.782 \longrightarrow 00:27:27.828$ green 12 to 18 month and

00:27:27.828 --> 00:27:29.680 orange 18 to 24 months,

NOTE Confidence: 0.89459415

 $00{:}27{:}29.680 \dashrightarrow 00{:}27{:}32.109$ how the percentage of nights use differ

NOTE Confidence: 0.89459415

 $00:27:32.109 \longrightarrow 00:27:34.930$ and then we can see that actually we.

NOTE Confidence: 0.89459415

 $00:27:34.930 \longrightarrow 00:27:37.191$ Of a very good experience that in

NOTE Confidence: 0.89459415

 $00:27:37.191 \longrightarrow 00:27:39.188$ between zero to six months the

NOTE Confidence: 0.89459415

 $00:27:39.188 \longrightarrow 00:27:41.148$ median is about 40% that increases

NOTE Confidence: 0.89459415

00:27:41.148 --> 00:27:43.521 to two years then tend to decrease

NOTE Confidence: 0.89459415

 $00:27:43.521 \longrightarrow 00:27:46.443$ a little bit in in 12 to 18 and then

NOTE Confidence: 0.89459415

 $00{:}27{:}46.443 \dashrightarrow 00{:}27{:}48.790$ finally sort of becomes the median

NOTE Confidence: 0.89459415

00:27:48.790 --> 00:27:50.736 around 60 something percent which

NOTE Confidence: 0.89459415

 $00{:}27{:}50.736 \to 00{:}27{:}52.812$ is pretty good actually I could

NOTE Confidence: 0.89459415

00:27:52.812 --> 00:27:55.210 say it's very comparable of kids,

NOTE Confidence: 0.89459415

 $00:27:55.210 \longrightarrow 00:27:57.210$ two kids with developmental disabilities.

NOTE Confidence: 0.89459415

 $00:27:57.210 \longrightarrow 00:27:57.536$ However,

NOTE Confidence: 0.89459415

 $00:27:57.536 \longrightarrow 00:28:00.144$ we also have to look at there are

NOTE Confidence: 0.89459415

 $00:28:00.144 \longrightarrow 00:28:02.131$ certain outliers you have here

00:28:02.131 --> 00:28:04.969 that you can see here that the whiskers.

NOTE Confidence: 0.89459415

 $00:28:04.970 \longrightarrow 00:28:07.160$ There are people who still have

NOTE Confidence: 0.89459415

 $00:28:07.160 \longrightarrow 00:28:09.269$ 0 adherence 2 years into it.

NOTE Confidence: 0.89459415

 $00:28:09.270 \longrightarrow 00:28:11.746$ So those kids in my opinion, after year.

NOTE Confidence: 0.89459415

 $00:28:11.746 \longrightarrow 00:28:14.290$ So they may need to consider something else,

NOTE Confidence: 0.89459415

 $00:28:14.290 \longrightarrow 00:28:16.870$ inspire or any other therapy.

NOTE Confidence: 0.89459415

 $00:28:16.870 \longrightarrow 00:28:19.299$ And also there are people who are

NOTE Confidence: 0.89459415

00:28:19.299 --> 00:28:21.050 overachievers and they're almost 100%

NOTE Confidence: 0.89459415

 $00:28:21.050 \longrightarrow 00:28:22.733$ at the very beginning and they keep that way.

NOTE Confidence: 0.674415647

 $00:28:25.020 \longrightarrow 00:28:26.450$ This is presents the minute

NOTE Confidence: 0.674415647

 $00{:}28{:}26.450 \dashrightarrow 00{:}28{:}27.880$ use on the Knights use.

NOTE Confidence: 0.674415647

 $00:28:27.880 \longrightarrow 00:28:29.404$ It's the same color and you

NOTE Confidence: 0.674415647

 $00{:}28{:}29.404 \dashrightarrow 00{:}28{:}31.209$ can see that also is something

NOTE Confidence: 0.674415647

00:28:31.209 --> 00:28:33.019 that improves overnight that we

NOTE Confidence: 0.674415647

 $00:28:33.019 \longrightarrow 00:28:34.884$ started with around 150 minutes

 $00:28:34.884 \longrightarrow 00:28:37.108$ and then we stabilize around 240

NOTE Confidence: 0.674415647

 $00:28:37.108 \longrightarrow 00:28:38.836$ or so minutes in the median.

NOTE Confidence: 0.674415647

 $00:28:38.840 \longrightarrow 00:28:40.505$ The interquartile range is is

NOTE Confidence: 0.674415647

 $00:28:40.505 \longrightarrow 00:28:42.739$ very variable but it goes up to

NOTE Confidence: 0.674415647

 $00:28:42.739 \longrightarrow 00:28:44.517$ 400 minutes or so and also there

NOTE Confidence: 0.674415647

00:28:44.517 --> 00:28:46.467 was no difference between them.

NOTE Confidence: 0.674415647

 $00:28:46.470 \longrightarrow 00:28:48.478$ The the time intervals.

NOTE Confidence: 0.83484555875

 $00:28:50.780 \longrightarrow 00:28:51.833$ So in conclusion,

NOTE Confidence: 0.83484555875

 $00{:}28{:}51.833 \dashrightarrow 00{:}28{:}53.939$ we have that sleeping individuals with

NOTE Confidence: 0.83484555875

 $00:28:53.939 \longrightarrow 00:28:56.369$ Down syndrome has not been well studied.

NOTE Confidence: 0.83484555875

 $00:28:56.370 \longrightarrow 00:28:58.918$ OSA is very prevalent and more trials

NOTE Confidence: 0.83484555875

 $00:28:58.918 \longrightarrow 00:29:01.090$ for treatment of OSA are needed.

NOTE Confidence: 0.83484555875

00:29:01.090 --> 00:29:03.098 Also of our data from home sleep apnea

NOTE Confidence: 0.83484555875

 $00:29:03.098 \longrightarrow 00:29:04.912$ testing is that I do really think that

NOTE Confidence: 0.83484555875

 $00:29:04.912 \longrightarrow 00:29:06.880$ it has a role well in all children.

NOTE Confidence: 0.83484555875

 $00:29:06.880 \longrightarrow 00:29:08.889$ That's another study that we're doing now.

 $00:29:08.890 \longrightarrow 00:29:10.894$ But in children with Down syndrome

NOTE Confidence: 0.83484555875

 $00{:}29{:}10.894 \dashrightarrow 00{:}29{:}12.721$ specifically because families are so happy

NOTE Confidence: 0.83484555875

 $00{:}29{:}12.721 \dashrightarrow 00{:}29{:}14.489$ that this study can be done at home.

NOTE Confidence: 0.83484555875

00:29:14.490 --> 00:29:17.028 Some of the things that we notice is that

NOTE Confidence: 0.83484555875

00:29:17.028 --> 00:29:19.629 the the setup of the device that we use,

NOTE Confidence: 0.83484555875

 $00:29:19.630 \longrightarrow 00:29:21.415$ the Type 2 device that we use.

NOTE Confidence: 0.83484555875

 $00:29:21.420 \longrightarrow 00:29:23.418$ Is that the whole process

NOTE Confidence: 0.83484555875

 $00{:}29{:}23.418 {\:{\mbox{--}}\!>\:} 00{:}29{:}25.420$ imagery was being removed overnight.

NOTE Confidence: 0.83484555875

00:29:25.420 --> 00:29:27.100 The thumb shape of children with

NOTE Confidence: 0.83484555875

00:29:27.100 --> 00:29:28.864 Down syndrome is a little bit

NOTE Confidence: 0.83484555875

 $00:29:28.864 \longrightarrow 00:29:30.901$ different that the that the sort of

NOTE Confidence: 0.83484555875

 $00:29:30.901 \longrightarrow 00:29:32.739$ gloves setup that the device have.

NOTE Confidence: 0.83484555875

 $00:29:32.740 \longrightarrow 00:29:34.414$ So sometimes we have to recommend

NOTE Confidence: 0.83484555875

 $00:29:34.414 \longrightarrow 00:29:35.995$ to families that they can tape

NOTE Confidence: 0.83484555875

 $00:29:35.995 \longrightarrow 00:29:37.619$ it and also they can use like a

 $00:29:37.674 \longrightarrow 00:29:39.198$ Band-Aid on the net before so.

NOTE Confidence: 0.83484555875

 $00:29:39.200 \longrightarrow 00:29:42.568$ So to get used the kid that they

NOTE Confidence: 0.83484555875

00:29:42.568 --> 00:29:44.939 have something in their finger.

NOTE Confidence: 0.83484555875

 $00:29:44.940 \longrightarrow 00:29:46.760$ In terms of future research,

NOTE Confidence: 0.83484555875

 $00:29:46.760 \longrightarrow 00:29:48.860$ what is the best home screening

NOTE Confidence: 0.83484555875

 $00:29:48.860 \longrightarrow 00:29:50.846$ tool instead of device? Is it?

NOTE Confidence: 0.83484555875

 $00:29:50.846 \longrightarrow 00:29:52.897$ What is something that we can do?

NOTE Confidence: 0.83484555875

00:29:52.900 --> 00:29:55.015 So someone, a family, comes to me and say,

NOTE Confidence: 0.83484555875

 $00{:}29{:}55.020 \mathrel{--}{>} 00{:}29{:}56.340$ you know, I want to scream.

NOTE Confidence: 0.83484555875

00:29:56.340 --> 00:29:58.800 If my child needs to come to the sleep lab,

NOTE Confidence: 0.83484555875

 $00:29:58.800 \longrightarrow 00:30:00.096$ maybe they don't need to come.

NOTE Confidence: 0.83484555875

 $00:30:00.100 \longrightarrow 00:30:02.359$ And it's something that we can do every year.

NOTE Confidence: 0.83484555875

00:30:02.360 --> 00:30:03.760 Like I was mentioning,

NOTE Confidence: 0.83484555875

 $00:30:03.760 \longrightarrow 00:30:05.160$ like a cholesterol level

NOTE Confidence: 0.83484555875

 $00:30:05.160 \longrightarrow 00:30:06.900$ HBA 1C that we don't have.

NOTE Confidence: 0.83484555875

00:30:06.900 --> 00:30:08.800 Is something coming from omics,

 $00:30:08.800 \longrightarrow 00:30:10.660$ is something coming from a device.

NOTE Confidence: 0.83484555875

 $00{:}30{:}10.660 \dashrightarrow 00{:}30{:}12.220$ It's the combination of both.

NOTE Confidence: 0.83484555875

 $00:30:12.220 \longrightarrow 00:30:13.624$ Is it a questionnaire?

NOTE Confidence: 0.83484555875

 $00:30:13.624 \longrightarrow 00:30:15.379$ We don't know for sure.

NOTE Confidence: 0.83484555875

 $00{:}30{:}15.380 \dashrightarrow 00{:}30{:}16.865$ Also we need randomized control

NOTE Confidence: 0.83484555875

 $00:30:16.865 \longrightarrow 00:30:18.350$ trial of eight side individuals

NOTE Confidence: 0.83484555875

00:30:18.401 --> 00:30:20.099 with Down syndrome we're doing that.

NOTE Confidence: 0.83484555875

00:30:20.100 --> 00:30:21.492 Our trial is comprehensive,

NOTE Confidence: 0.83484555875

 $00:30:21.492 \longrightarrow 00:30:23.232$ the one that we're starting.

NOTE Confidence: 0.83484555875

 $00:30:23.240 \longrightarrow 00:30:25.080$ Also we need data-driven screening

NOTE Confidence: 0.83484555875

 $00{:}30{:}25.080 \to 00{:}30{:}27.260$ algorithm that is something so important

NOTE Confidence: 0.83484555875

 $00:30:27.260 \longrightarrow 00:30:29.524$ and we need all to work together and

NOTE Confidence: 0.83484555875

 $00{:}30{:}29.524 \dashrightarrow 00{:}30{:}31.250$ use data this harmonized for example

NOTE Confidence: 0.83484555875

 $00{:}30{:}31.250 \dashrightarrow 00{:}30{:}34.024$ and I uh came up with nahh toolbox so

NOTE Confidence: 0.83484555875

 $00:30:34.024 \longrightarrow 00:30:35.754$ people can measure their behavioral

 $00:30:35.754 \longrightarrow 00:30:37.748$ in kids without them syndrome.

NOTE Confidence: 0.83484555875

00:30:37.750 --> 00:30:39.150 We have used it also in kids

NOTE Confidence: 0.83484555875

 $00:30:39.150 \longrightarrow 00:30:39.750$ with Down syndrome,

NOTE Confidence: 0.83484555875

 $00:30:39.750 \longrightarrow 00:30:40.865$ but it's mostly for kids

NOTE Confidence: 0.83484555875

 $00:30:40.865 \longrightarrow 00:30:41.534$ without Down syndrome.

NOTE Confidence: 0.83484555875

 $00:30:41.540 \longrightarrow 00:30:42.620$ So if you have a,

NOTE Confidence: 0.83484555875 00:30:42.620 --> 00:30:42.840 a, NOTE Confidence: 0.83484555875

00:30:42.840 --> 00:30:44.160 a research and you're using that

NOTE Confidence: 0.83484555875

 $00:30:44.160 \dashrightarrow 00:30:45.479$ tool and using the same tool.

NOTE Confidence: 0.83484555875

00:30:45.480 --> 00:30:47.124 Eventually you know there's a big

NOTE Confidence: 0.83484555875

 $00:30:47.124 \longrightarrow 00:30:48.750$ thing about data sharing right now.

NOTE Confidence: 0.83484555875

 $00:30:48.750 \longrightarrow 00:30:50.802$ We can harmonize the data and

NOTE Confidence: 0.83484555875

 $00:30:50.802 \longrightarrow 00:30:52.750$ and and analyze it better.

NOTE Confidence: 0.83484555875

 $00{:}30{:}52.750 \dashrightarrow 00{:}30{:}54.638$ And something that to me is very puzzling

NOTE Confidence: 0.83484555875

 $00:30:54.638 \longrightarrow 00:30:56.702$ and I want to continue working in the

NOTE Confidence: 0.83484555875

 $00:30:56.702 \longrightarrow 00:30:58.488$ future with that is the relationship

00:30:58.488 --> 00:31:00.248 between untreated OSA and aging,

NOTE Confidence: 0.83484555875

 $00{:}31{:}00.250 \dashrightarrow 00{:}31{:}02.150$ premature aging or Alzheimer's

NOTE Confidence: 0.83484555875

 $00:31:02.150 \longrightarrow 00:31:04.525$ in individual with Down syndrome.

NOTE Confidence: 0.83484555875

00:31:04.530 --> 00:31:07.338 This is my linked into our code if you

NOTE Confidence: 0.83484555875

 $00:31:07.338 \longrightarrow 00:31:10.081$ want to be my friend in LinkedIn since

NOTE Confidence: 0.83484555875

 $00:31:10.081 \longrightarrow 00:31:13.209$ you know I'm not a tick tock star.

NOTE Confidence: 0.83484555875

 $00:31:13.210 \longrightarrow 00:31:14.236$ And thank you.

NOTE Confidence: 0.83484555875

 $00{:}31{:}14.236 \to 00{:}31{:}16.288$ And these are all my collaborators

NOTE Confidence: 0.83484555875

 $00{:}31{:}16.288 \dashrightarrow 00{:}31{:}18.650$ and I'm happy to answer any questions.

NOTE Confidence: 0.685539748888889

00:31:21.540 --> 00:31:24.095 Thank you Doctor Tapia for

NOTE Confidence: 0.685539748888889

 $00:31:24.095 \longrightarrow 00:31:26.139$ that very interesting talk.

NOTE Confidence: 0.685539748888889

 $00:31:26.140 \longrightarrow 00:31:28.180$ If anybody has any questions,

NOTE Confidence: 0.685539748888889

 $00{:}31{:}28.180 \dashrightarrow 00{:}31{:}30.469$ please feel free to ask Doctor Krieger.

NOTE Confidence: 0.915905565

 $00{:}31{:}32.380 \dashrightarrow 00{:}31{:}36.708$ So over the years I've seen children and

NOTE Confidence: 0.915905565

 $00:31:36.708 \longrightarrow 00:31:40.026$ adults with Down syndrome who also have

 $00:31:40.026 \longrightarrow 00:31:44.080$ right to left cardiovascular shunts.

NOTE Confidence: 0.915905565

00:31:44.080 --> 00:31:46.117 What has been your experience with them?

NOTE Confidence: 0.915905565

 $00:31:46.120 \longrightarrow 00:31:50.050$ Because they're hypoxic from their shunt.

NOTE Confidence: 0.915905565

 $00:31:50.050 \longrightarrow 00:31:52.080$ I wonder if you can just tell us about that.

NOTE Confidence: 0.923260244

00:31:52.130 --> 00:31:54.841 Yeah, we do have some, but I would

NOTE Confidence: 0.923260244

00:31:54.841 --> 00:31:57.130 say that mostly now the youngest kids

NOTE Confidence: 0.923260244

 $00:31:57.199 \longrightarrow 00:31:59.670$ have been all repaired very early on.

NOTE Confidence: 0.923260244

 $00:31:59.670 \longrightarrow 00:32:01.983$ So it's not something that we see that often.

NOTE Confidence: 0.923260244

 $00:32:01.990 \longrightarrow 00:32:04.430$ The older kids is something that we would

NOTE Confidence: 0.923260244

00:32:04.430 --> 00:32:06.986 see and in that case many times we have

NOTE Confidence: 0.923260244

00:32:06.986 --> 00:32:09.466 to use some oxygen with PAP or something

NOTE Confidence: 0.923260244

 $00:32:09.466 \longrightarrow 00:32:13.115$ to to to have some some values that

NOTE Confidence: 0.923260244

 $00:32:13.115 \longrightarrow 00:32:15.730$ they would that would be like suitable.

NOTE Confidence: 0.923260244

00:32:15.730 --> 00:32:17.249 But what is more important is to

NOTE Confidence: 0.923260244

 $00:32:17.249 \longrightarrow 00:32:19.007$ know what is the baseline saturation

NOTE Confidence: 0.923260244

 $00:32:19.007 \longrightarrow 00:32:20.411$ from the cardiology. Visits.

 $00:32:20.411 \longrightarrow 00:32:23.139$ So we based on that for example a

NOTE Confidence: 0.923260244

 $00{:}32{:}23.139 \dashrightarrow 00{:}32{:}25.328$ kid with right Shawn comes to the

NOTE Confidence: 0.923260244

 $00:32:25.328 \longrightarrow 00:32:27.179$ lab and we tell the technicians we

NOTE Confidence: 0.923260244

 $00{:}32{:}27.179 \dashrightarrow 00{:}32{:}29.153$ put there in the note for example

NOTE Confidence: 0.923260244

 $00:32:29.153 \longrightarrow 00:32:30.079$ baseline saturation is 85.

NOTE Confidence: 0.923260244

 $00:32:30.080 \longrightarrow 00:32:32.056$ So we know that they don't mark every

NOTE Confidence: 0.923260244

 $00:32:32.056 \longrightarrow 00:32:33.837$ event because also we have like some

NOTE Confidence: 0.923260244

 $00:32:33.837 \longrightarrow 00:32:35.270$ guidelines that need to call us.

NOTE Confidence: 0.923260244

00:32:35.270 --> 00:32:35.897 They would be,

NOTE Confidence: 0.923260244

00:32:35.897 --> 00:32:37.360 they would be calling me every night.

NOTE Confidence: 0.923260244

 $00:32:37.360 \dashrightarrow 00:32:39.358$ You're not saying they'll be saturating

NOTE Confidence: 0.923260244

 $00:32:39.358 \longrightarrow 00:32:42.183$ so you know they they have to go with the

NOTE Confidence: 0.923260244

 $00:32:42.183 \longrightarrow 00:32:44.370$ three or 4% but according to their baseline.

NOTE Confidence: 0.923260244

 $00:32:45.320 \longrightarrow 00:32:47.140$ Thank you.

NOTE Confidence: 0.923260244

 $00:32:47.140 \longrightarrow 00:32:48.380$ Great talk.

 $00:32:48.380 \longrightarrow 00:32:48.870$ Thank you.

NOTE Confidence: 0.895825646

 $00{:}32{:}52.430 \dashrightarrow 00{:}32{:}54.130$ Hi, I have a question.

NOTE Confidence: 0.895825646

00:32:54.130 --> 00:32:57.110 Hi Doctor Tapia, great talk.

NOTE Confidence: 0.895825646

 $00:32:57.110 \longrightarrow 00:32:58.822$ I have a lot of kids with Down

NOTE Confidence: 0.895825646

 $00:32:58.822 \longrightarrow 00:33:00.386$ syndrome in my practice with sleep

NOTE Confidence: 0.895825646

 $00{:}33{:}00.386 \dashrightarrow 00{:}33{:}02.006$ apnea that we manage with CPAP

NOTE Confidence: 0.895825646

 $00{:}33{:}02.065 \dashrightarrow 00{:}33{:}03.885$ and in my experience it seems like

NOTE Confidence: 0.895825646

 $00:33:03.885 \longrightarrow 00:33:05.180$ there's almost 2 populations.

NOTE Confidence: 0.895825646

 $00{:}33{:}05.180 \dashrightarrow 00{:}33{:}07.220$ There's a population that

NOTE Confidence: 0.895825646

 $00:33:07.220 \longrightarrow 00:33:08.750$ is wonderfully adherent,

NOTE Confidence: 0.895825646

 $00:33:08.750 \dashrightarrow 00:33:11.718$ like the most adherent patients you can get,

NOTE Confidence: 0.895825646

 $00:33:11.720 \longrightarrow 00:33:13.603$ and then there's kids that really have

NOTE Confidence: 0.895825646

 $00:33:13.603 \longrightarrow 00:33:15.909$ a lot of difficulty tolerating it.

NOTE Confidence: 0.895825646

 $00:33:15.910 \longrightarrow 00:33:18.205$ Whatsoever, do you think it's

NOTE Confidence: 0.895825646

00:33:18.205 --> 00:33:20.500 more patient factors or parent

NOTE Confidence: 0.895825646

 $00:33:20.580 \longrightarrow 00:33:23.058$ factors that are kind of driving

00:33:23.058 --> 00:33:25.480 success or failure in patients?

NOTE Confidence: 0.747045306

 $00{:}33{:}25.890 \dashrightarrow 00{:}33{:}28.166$ I think it's a mixed, you know in

NOTE Confidence: 0.747045306

00:33:28.166 --> 00:33:29.950 the research I show part of the data,

NOTE Confidence: 0.747045306

 $00:33:29.950 \longrightarrow 00:33:31.158$ but unfortunately something that

NOTE Confidence: 0.747045306

00:33:31.158 --> 00:33:33.316 we see all the time in anything

NOTE Confidence: 0.747045306

 $00:33:33.316 \longrightarrow 00:33:35.032$ that is sleep related and wearing

NOTE Confidence: 0.747045306

 $00:33:35.032 \longrightarrow 00:33:36.989$ my hat of health disparities,

NOTE Confidence: 0.747045306

 $00:33:36.990 \longrightarrow 00:33:38.840$ there's a huge disparities within

NOTE Confidence: 0.747045306

 $00:33:38.840 \longrightarrow 00:33:41.122$ the education of the family and

NOTE Confidence: 0.747045306

 $00:33:41.122 \longrightarrow 00:33:42.578$ that unfortunately somewhat linked

NOTE Confidence: 0.747045306

 $00:33:42.578 \longrightarrow 00:33:44.890$ to race in the United States.

NOTE Confidence: 0.747045306

 $00:33:44.890 \longrightarrow 00:33:46.642$ We do see that.

NOTE Confidence: 0.747045306

 $00{:}33{:}46.642 \dashrightarrow 00{:}33{:}49.270$ Any parents who are more educated

NOTE Confidence: 0.747045306

 $00:33:49.360 \longrightarrow 00:33:50.878$ or more affluent?

NOTE Confidence: 0.747045306

 $00:33:50.880 \longrightarrow 00:33:52.228$ It goes better everything.

 $00:33:52.228 \longrightarrow 00:33:53.913$ I think it's a combination

NOTE Confidence: 0.747045306

 $00:33:53.913 \longrightarrow 00:33:55.580$ because they have more support.

NOTE Confidence: 0.747045306

 $00:33:55.580 \longrightarrow 00:33:57.099$ They're able to have a job that

NOTE Confidence: 0.747045306

 $00:33:57.099 \longrightarrow 00:33:58.966$ maybe 5:00 or 6:00 PM there at home

NOTE Confidence: 0.747045306

 $00:33:58.966 \longrightarrow 00:34:00.420$ and they can dedicate this time.

NOTE Confidence: 0.747045306

 $00:34:00.420 \longrightarrow 00:34:02.180$ If I were working two jobs and from

NOTE Confidence: 0.747045306

 $00{:}34{:}02.180 --> 00{:}34{:}04.000$ here I had to go to another place

NOTE Confidence: 0.747045306

 $00:34:04.000 \longrightarrow 00:34:05.779$ and do this and that I get home,

NOTE Confidence: 0.747045306

 $00:34:05.780 \longrightarrow 00:34:07.817$ do I really want to deal with

NOTE Confidence: 0.747045306

 $00:34:07.820 \longrightarrow 00:34:09.698$ all the stuff most likely now?

NOTE Confidence: 0.747045306

 $00:34:09.700 \longrightarrow 00:34:12.340$ So I think it's it's it's a combination.

NOTE Confidence: 0.747045306

 $00{:}34{:}12.340 \dashrightarrow 00{:}34{:}14.204$ You know I see a lot of Hispanic

NOTE Confidence: 0.747045306

 $00:34:14.204 \longrightarrow 00:34:15.862$ families that they do not speak English

NOTE Confidence: 0.747045306

 $00:34:15.862 \longrightarrow 00:34:17.599$ they came to see me specifically for

NOTE Confidence: 0.747045306

00:34:17.599 --> 00:34:19.783 and I do remember saying that mom and

NOTE Confidence: 0.747045306

 $00:34:19.790 \longrightarrow 00:34:21.606$ the mom told me it will never happen.

00:34:21.610 --> 00:34:23.164 I don't know how to do it.

NOTE Confidence: 0.747045306

 $00:34:23.170 \longrightarrow 00:34:25.630$ The the kid is difficult, have the

NOTE Confidence: 0.747045306

 $00:34:25.630 \longrightarrow 00:34:27.230$ developmental disabilities and whatever.

NOTE Confidence: 0.747045306

 $00:34:27.230 \longrightarrow 00:34:28.994$ And we had to work with that

NOTE Confidence: 0.747045306

 $00:34:28.994 \longrightarrow 00:34:30.850$ man to put that confidence.

NOTE Confidence: 0.747045306

 $00:34:30.850 \longrightarrow 00:34:31.830$ And when she did it,

NOTE Confidence: 0.747045306

 $00:34:31.830 \longrightarrow 00:34:32.808$ like it took like a year.

NOTE Confidence: 0.747045306

 $00{:}34{:}32.810 \dashrightarrow 00{:}34{:}34.148$ And that hearing was super good,

NOTE Confidence: 0.747045306

00:34:34.150 --> 00:34:36.230 not perfect, but super good.

NOTE Confidence: 0.747045306

00:34:36.230 --> 00:34:37.448 And we told her, you know,

NOTE Confidence: 0.747045306

 $00:34:37.450 \longrightarrow 00:34:39.362$ you did it and we believed in you

NOTE Confidence: 0.747045306

 $00:34:39.362 \longrightarrow 00:34:41.539$ and you believe in yourself and and,

NOTE Confidence: 0.747045306

 $00:34:41.540 \longrightarrow 00:34:42.270$ you know,

NOTE Confidence: 0.747045306

 $00:34:42.270 \longrightarrow 00:34:44.498$ she started to cry and we didn't know

NOTE Confidence: 0.747045306

 $00:34:44.498 \longrightarrow 00:34:45.969$ what to do because she started to cry.

 $00:34:45.970 \longrightarrow 00:34:46.792$ Oh my God.

NOTE Confidence: 0.747045306

 $00:34:46.792 \longrightarrow 00:34:48.162$ The first time that someone

NOTE Confidence: 0.747045306

 $00:34:48.162 \longrightarrow 00:34:49.890$ had said that to me, you know,

NOTE Confidence: 0.747045306

 $00:34:49.890 \longrightarrow 00:34:51.570$ there are so many things the way.

NOTE Confidence: 0.747045306

 $00{:}34{:}51.570 \dashrightarrow 00{:}34{:}54.074$ I went to Med school because I like

NOTE Confidence: 0.747045306

 $00:34:54.074 \longrightarrow 00:34:56.657$ science I didn't know anything about.

NOTE Confidence: 0.747045306

00:34:56.660 --> 00:34:58.244 You know, I also grew up in Chile,

NOTE Confidence: 0.747045306

 $00:34:58.250 \longrightarrow 00:35:00.262$ so I didn't know any relation,

NOTE Confidence: 0.747045306

 $00{:}35{:}00.262 \dashrightarrow 00{:}35{:}01.790$ was pretty homogeneous were

NOTE Confidence: 0.747045306

 $00:35:01.790 \longrightarrow 00:35:03.318$ all Latinos and everything.

NOTE Confidence: 0.747045306

 $00{:}35{:}03.320 \dashrightarrow 00{:}35{:}04.928$ So I didn't know anything about

NOTE Confidence: 0.747045306

 $00:35:04.928 \longrightarrow 00:35:06.500$ all this difference or anything.

NOTE Confidence: 0.747045306

 $00:35:06.500 \longrightarrow 00:35:08.020$ I was super pretty naive.

NOTE Confidence: 0.747045306

 $00{:}35{:}08.020 \dashrightarrow 00{:}35{:}10.117$ So but now I see all the importance of

NOTE Confidence: 0.747045306

 $00:35:10.117 \longrightarrow 00:35:12.577$ the social determinants of health are huge.

NOTE Confidence: 0.809489430333334

00:35:14.810 --> 00:35:16.698 And I would ask, I want to sort

 $00:35:16.698 \longrightarrow 00:35:18.371$ of correlate question to you is

NOTE Confidence: 0.809489430333334

00:35:18.371 --> 00:35:20.081 how successful clearly some of our

NOTE Confidence: 0.809489430333334

 $00:35:20.135 \longrightarrow 00:35:21.875$ children just need more time than

NOTE Confidence: 0.809489430333334

 $00:35:21.875 \longrightarrow 00:35:23.986$ three months to work on adherence.

NOTE Confidence: 0.809489430333334

 $00:35:23.986 \longrightarrow 00:35:26.824$ How successful have you been doing

NOTE Confidence: 0.809489430333334

 $00:35:26.824 \longrightarrow 00:35:29.739$ with home care companies because?

NOTE Confidence: 0.809489430333334

 $00:35:29.740 \longrightarrow 00:35:32.444$ We've had, we've had a fair amount of

NOTE Confidence: 0.809489430333334

 $00:35:32.444 \longrightarrow 00:35:33.731$ inflexibility sometimes and having

NOTE Confidence: 0.809489430333334

 $00{:}35{:}33.731 \dashrightarrow 00{:}35{:}35.938$ to do extra studies simply to re

NOTE Confidence: 0.809489430333334

 $00:35:35.938 \longrightarrow 00:35:37.133$ demonstrate the children have sleep

NOTE Confidence: 0.809489430333334

 $00{:}35{:}37.133 \dashrightarrow 00{:}35{:}38.697$ apnea and we know that they do.

NOTE Confidence: 0.809489430333334

 $00:35:38.700 \longrightarrow 00:35:40.626$ It just seems like a big waste of time.

NOTE Confidence: 0.813806793333333

 $00{:}35{:}40.680 \dashrightarrow 00{:}35{:}42.060$ It's a huge waste of time.

NOTE Confidence: 0.813806793333333

 $00{:}35{:}42.060 \dashrightarrow 00{:}35{:}43.650$ Typically we some comical companies

NOTE Confidence: 0.813806793333333

 $00:35:43.650 \longrightarrow 00:35:45.790$ you know they require like a recent

00:35:45.790 --> 00:35:47.512 within six months or so sleep study

NOTE Confidence: 0.813806793333333

 $00:35:47.512 \longrightarrow 00:35:48.996$ and it happens that Johnny had

NOTE Confidence: 0.813806793333333

 $00:35:48.996 \longrightarrow 00:35:51.065$ a six month and one day ago and

NOTE Confidence: 0.813806793333333

 $00:35:51.065 \longrightarrow 00:35:52.835$ then you have to reorder right.

NOTE Confidence: 0.813806793333333

 $00:35:52.840 \longrightarrow 00:35:53.617$ It's it's ridiculous.

NOTE Confidence: 0.813806793333333

 $00:35:53.617 \longrightarrow 00:35:55.752$ So yes and also the other thing that

NOTE Confidence: 0.813806793333333

 $00:35:55.752 \longrightarrow 00:35:57.635$ we have with home care companies and

NOTE Confidence: 0.813806793333333

 $00:35:57.635 \longrightarrow 00:35:59.300$ this happened just yesterday seeing.

NOTE Confidence: 0.813806793333333

00:35:59.300 --> 00:36:01.280 Finally that that was all convinced,

NOTE Confidence: 0.813806793333333

 $00:36:01.280 \longrightarrow 00:36:03.866$ starting CPAP now with the pandemic.

NOTE Confidence: 0.813806793333333

 $00:36:03.870 \longrightarrow 00:36:04.894$ Before we could start,

NOTE Confidence: 0.813806793333333

 $00:36:04.894 \longrightarrow 00:36:07.073$ we would bring the home care company here

NOTE Confidence: 0.813806793333333

 $00:36:07.073 \longrightarrow 00:36:09.409$ and we would start here doing the initiation.

NOTE Confidence: 0.813806793333333

 $00:36:09.410 \longrightarrow 00:36:11.506$ Turn off the Machine was a full day

NOTE Confidence: 0.813806793333333

00:36:11.506 --> 00:36:13.290 visit whatever, not with me all the time,

NOTE Confidence: 0.813806793333333

 $00:36:13.290 \dashrightarrow 00:36:15.810$ but with the team and with the pandemic.

00:36:15.810 --> 00:36:17.914 Now what happens is that the home Care

NOTE Confidence: 0.813806793333333

 $00:36:17.914 \longrightarrow 00:36:19.399$ company delivers the device at home.

NOTE Confidence: 0.813806793333333

 $00:36:19.400 \longrightarrow 00:36:20.610$ That's the teaching at home.

NOTE Confidence: 0.813806793333333

 $00:36:20.610 \longrightarrow 00:36:22.140$ And then when that happened,

NOTE Confidence: 0.813806793333333

00:36:22.140 --> 00:36:23.680 we do the initiation here because we're

NOTE Confidence: 0.813806793333333

 $00:36:23.680 \longrightarrow 00:36:25.278$ not allowed to turn it on the device.

NOTE Confidence: 0.813806793333333

 $00:36:25.280 \longrightarrow 00:36:26.610$ And then we have to close the

NOTE Confidence: 0.813806793333333

 $00:36:26.610 \longrightarrow 00:36:27.470$ room or whatever thing.

NOTE Confidence: 0.813806793333333

 $00:36:27.470 \longrightarrow 00:36:28.807$ And then that came and he said,

NOTE Confidence: 0.813806793333333

 $00{:}36{:}28.810 \dashrightarrow 00{:}36{:}30.130$ you know, everything was super good.

NOTE Confidence: 0.813806793333333

 $00:36:30.130 \longrightarrow 00:36:31.551$ You guys provided me with a mask

NOTE Confidence: 0.813806793333333

 $00:36:31.551 \longrightarrow 00:36:32.619$ or we're playing with that.

NOTE Confidence: 0.813806793333333

 $00{:}36{:}32.620 \dashrightarrow 00{:}36{:}34.078$ The home care company came up.

NOTE Confidence: 0.813806793333333

 $00:36:34.080 \longrightarrow 00:36:35.600$ They deliver a box home.

NOTE Confidence: 0.813806793333333

 $00:36:35.600 \longrightarrow 00:36:36.910$ This is your staff home.

 $00:36:36.910 \longrightarrow 00:36:38.254$ This is your Mac. Where is the kid?

NOTE Confidence: 0.813806793333333

 $00:36:38.260 \longrightarrow 00:36:39.090$ Bam.

NOTE Confidence: 0.813806793333333

 $00:36:39.090 \longrightarrow 00:36:41.580$ On your face.

NOTE Confidence: 0.755592496

 $00:36:39.820 \longrightarrow 00:36:41.568$ Ohh, I don't like it. You have to wear

NOTE Confidence: 0.859344738333333

 $00:36:41.580 \longrightarrow 00:36:42.690$ it. If you don't wear it,

NOTE Confidence: 0.859344738333333

 $00:36:42.690 \longrightarrow 00:36:44.246$ like in 90 days.

NOTE Confidence: 0.859344738333333

 $00:36:44.246 \longrightarrow 00:36:46.191$ We build the family with

NOTE Confidence: 0.859344738333333

 $00:36:46.191 \longrightarrow 00:36:47.699$ whatever thing you know,

NOTE Confidence: 0.859344738333333

 $00:36:47.700 \longrightarrow 00:36:51.684$ how long it takes to undo the wrong.

NOTE Confidence: 0.859344738333333

 $00:36:51.690 \longrightarrow 00:36:53.290$ It's it's like in impressive.

NOTE Confidence: 0.859344738333333

 $00{:}36{:}53.290 \dashrightarrow 00{:}36{:}54.641$ So now actually we just had a

NOTE Confidence: 0.859344738333333

00:36:54.641 --> 00:36:55.697 meeting that we're talking about

NOTE Confidence: 0.859344738333333

00:36:55.697 --> 00:36:56.999 that here like an admin meeting

NOTE Confidence: 0.859344738333333

 $00:36:56.999 \longrightarrow 00:36:58.731$ and said we need to talk to the

NOTE Confidence: 0.859344738333333

00:36:58.731 --> 00:36:59.905 leadership of those companies to

NOTE Confidence: 0.859344738333333

 $00{:}36{:}59.905 \dashrightarrow 00{:}37{:}02.250$ like smooth them or like be friends

 $00:37:02.250 \longrightarrow 00:37:04.447$ with them so they can understand

NOTE Confidence: 0.859344738333333

 $00:37:04.447 \longrightarrow 00:37:07.050$ what it is because they don't know,

NOTE Confidence: 0.859344738333333

 $00:37:07.050 \longrightarrow 00:37:08.886$ they have zero idea you know.

NOTE Confidence: 0.80328462

00:37:09.910 --> 00:37:12.438 Yeah, it's, it's like all the home care

NOTE Confidence: 0.80328462

 $00:37:12.438 \longrightarrow 00:37:14.448$ companies are so strapped right now.

NOTE Confidence: 0.80328462

 $00:37:14.450 \longrightarrow 00:37:17.314$ We've seen a lot of consolidation and lately

NOTE Confidence: 0.80328462

00:37:17.314 --> 00:37:19.699 actually just don't mean to hijack this.

NOTE Confidence: 0.80328462

 $00{:}37{:}19.700 \dashrightarrow 00{:}37{:}22.087$ We've had a couple of kids giving

NOTE Confidence: 0.80328462

00:37:22.087 --> 00:37:24.029 older machines with without online

NOTE Confidence: 0.80328462

 $00{:}37{:}24.029 \dashrightarrow 00{:}37{:}26.154$ monitoring because there's such a

NOTE Confidence: 0.80328462

 $00:37:26.154 \longrightarrow 00:37:28.589$ backlog of people needing machines.

NOTE Confidence: 0.80328462

 $00:37:28.590 \longrightarrow 00:37:29.836$ So then some, my mom came in

NOTE Confidence: 0.80328462

 $00{:}37{:}29.836 --> 00{:}37{:}31.238$ with an SD card and I'm like,

NOTE Confidence: 0.80328462

00:37:31.240 --> 00:37:32.728 I I haven't had an SD card reader

NOTE Confidence: 0.80328462

 $00:37:32.728 \longrightarrow 00:37:35.540$ in 10 years, you know? It's crazy.

 $00:37:35.870 \longrightarrow 00:37:37.473$ We had this semester, it's the same

NOTE Confidence: 0.783800789

 $00:37:37.473 \longrightarrow 00:37:39.283$ stuff and you know we're doing and this

NOTE Confidence: 0.783800789

 $00:37:39.283 \longrightarrow 00:37:41.246$ is an NIH drive that we were doing and

NOTE Confidence: 0.783800789

 $00:37:41.246 \longrightarrow 00:37:42.814$ by now we're supposed to be finished.

NOTE Confidence: 0.783800789

00:37:42.814 --> 00:37:44.334 And luckily while they understood

NOTE Confidence: 0.783800789

00:37:44.334 --> 00:37:45.550 it's not our business,

NOTE Confidence: 0.783800789

 $00:37:45.550 \longrightarrow 00:37:47.910$ but with the CPAP recall,

NOTE Confidence: 0.783800789

 $00:37:47.910 \longrightarrow 00:37:50.070$ we were like super delayed,

NOTE Confidence: 0.783800789

 $00{:}37{:}50.070 \longrightarrow 00{:}37{:}52.317$ like enrolling like one every quarter and

NOTE Confidence: 0.783800789

 $00:37:52.317 \longrightarrow 00:37:55.415$ we had to be like 8 or something like that.

NOTE Confidence: 0.783800789

 $00:37:55.420 \longrightarrow 00:37:56.860$ But we are there continuing

NOTE Confidence: 0.783800789

 $00:37:56.860 \longrightarrow 00:37:58.012$ with with the study.

NOTE Confidence: 0.84681912

 $00:37:58.770 \longrightarrow 00:38:00.540$ Thank you. This is great work. Appreciate

NOTE Confidence: 0.694465529

 $00{:}38{:}00.550 \dashrightarrow 00{:}38{:}02.646$ it. I see someone asking can you speak

NOTE Confidence: 0.694465529

 $00:38:02.646 \longrightarrow 00:38:04.648$ about the physiological traits of OCD

NOTE Confidence: 0.694465529

 $00:38:04.648 \longrightarrow 00:38:06.612$ about patient with that. OK yeah.

 $00:38:06.612 \longrightarrow 00:38:08.238$ So you know that the physiopathology

NOTE Confidence: 0.694465529

 $00:38:08.238 \longrightarrow 00:38:10.339$ was says a combination of the muscular

NOTE Confidence: 0.694465529

 $00:38:10.339 \longrightarrow 00:38:11.844$ factor with an atomic factors.

NOTE Confidence: 0.694465529

00:38:11.850 --> 00:38:13.730 I will talk about the studies done in,

NOTE Confidence: 0.694465529

00:38:13.730 --> 00:38:15.830 in, in, in typically developing kids

NOTE Confidence: 0.694465529

 $00:38:15.830 \longrightarrow 00:38:18.327$ because the same study have not been

NOTE Confidence: 0.694465529

 $00:38:18.327 \longrightarrow 00:38:20.385$ reproduced in kids with Down syndrome.

NOTE Confidence: 0.694465529

 $00:38:20.390 \longrightarrow 00:38:22.326$ When I talked to one of the Down

NOTE Confidence: 0.694465529

 $00:38:22.326 \longrightarrow 00:38:23.574$ syndrome foundations about that I

NOTE Confidence: 0.694465529

 $00{:}38{:}23.574 \dashrightarrow 00{:}38{:}25.002$ would be interested in doing that.

NOTE Confidence: 0.694465529

 $00:38:25.010 \longrightarrow 00:38:26.249$ They almost have like a heart attack.

NOTE Confidence: 0.694465529

 $00:38:26.250 \longrightarrow 00:38:28.728$ So I'm not bringing up the idea.

NOTE Confidence: 0.694465529

 $00{:}38{:}28.730 \dashrightarrow 00{:}38{:}30.102$ That soon, but I will tell you

NOTE Confidence: 0.694465529

 $00:38:30.102 \longrightarrow 00:38:30.900$ what the studies are.

NOTE Confidence: 0.694465529

 $00:38:30.900 \longrightarrow 00:38:33.012$ So to study the neuromotor function

 $00:38:33.012 \longrightarrow 00:38:35.335$ during sleep, we do have to do

NOTE Confidence: 0.694465529

 $00{:}38{:}35.335 \dashrightarrow 00{:}38{:}36.627$ negative pressure during sleep.

NOTE Confidence: 0.694465529

 $00:38:36.630 \longrightarrow 00:38:37.938$ So you have a CPAP machine.

NOTE Confidence: 0.694465529

 $00:38:37.940 \longrightarrow 00:38:40.019$ This is adapted to provide negative pressure.

NOTE Confidence: 0.694465529

00:38:40.020 --> 00:38:41.440 And basically what you're doing,

NOTE Confidence: 0.694465529

00:38:41.440 --> 00:38:43.638 you're sucking air out up to some

NOTE Confidence: 0.694465529

 $00:38:43.638 \longrightarrow 00:38:46.220$ point that you don't have flow anymore.

NOTE Confidence: 0.694465529

00:38:46.220 --> 00:38:47.876 Yeah, since this is sleep group,

NOTE Confidence: 0.694465529

 $00{:}38{:}47.880 --> 00{:}38{:}49.752$ I can tell you there's a way of

NOTE Confidence: 0.694465529

 $00:38:49.752 \longrightarrow 00:38:51.595$ doing it very fast that will show

NOTE Confidence: 0.694465529

 $00:38:51.595 \longrightarrow 00:38:53.500$ us what is an active response,

NOTE Confidence: 0.694465529

 $00:38:53.500 \longrightarrow 00:38:55.936$ a fast response to the negative pressure

NOTE Confidence: 0.694465529

 $00:38:55.936 \longrightarrow 00:38:59.375$ apply or a low way or or a stepwise way that.

NOTE Confidence: 0.694465529

 $00:38:59.380 \longrightarrow 00:39:01.540$ Will elicit like the slow response

NOTE Confidence: 0.694465529

 $00:39:01.540 \longrightarrow 00:39:04.349$ of the this the flow volume curve.

NOTE Confidence: 0.694465529

 $00:39:04.350 \longrightarrow 00:39:06.338$ So eventually you apply so much negative

 $00:39:06.338 \longrightarrow 00:39:08.228$ pressure that you don't have any flow.

NOTE Confidence: 0.694465529

 $00{:}39{:}08.230 \dashrightarrow 00{:}39{:}10.477$ And when you have zero flow that

NOTE Confidence: 0.694465529

 $00:39:10.477 \longrightarrow 00:39:12.338$ is the critical closing pressure

NOTE Confidence: 0.694465529

 $00:39:12.338 \longrightarrow 00:39:13.990$ of the upper airway.

NOTE Confidence: 0.694465529

 $00:39:13.990 \longrightarrow 00:39:15.920$ The studies in typically developing

NOTE Confidence: 0.694465529

 $00:39:15.920 \longrightarrow 00:39:17.464$ children without obstructive sleep

NOTE Confidence: 0.694465529

00:39:17.464 --> 00:39:19.895 apnea have shown that you need to apply

NOTE Confidence: 0.694465529

 $00:39:19.895 \longrightarrow 00:39:21.569$ negative pressure that are super high.

NOTE Confidence: 0.694465529

00:39:21.570 --> 00:39:23.530 Extrapolated to like minus 100

NOTE Confidence: 0.694465529

 $00:39:23.530 \longrightarrow 00:39:25.490$ to close the upper airway,

NOTE Confidence: 0.694465529

 $00:39:25.490 \longrightarrow 00:39:27.884$ the device goes up down to minus

NOTE Confidence: 0.694465529

 $00:39:27.884 \longrightarrow 00:39:29.390$ 25 centimeters of water.

NOTE Confidence: 0.694465529

 $00:39:29.390 \longrightarrow 00:39:29.701$ However,

NOTE Confidence: 0.694465529

 $00:39:29.701 \longrightarrow 00:39:31.878$ in those who have obstructive sleep apnea,

NOTE Confidence: 0.694465529

 $00:39:31.880 \longrightarrow 00:39:34.048$ you can you you can elicit the peak

 $00:39:34.048 \longrightarrow 00:39:36.435$ rate and minus 15 or things like that.

NOTE Confidence: 0.694465529

 $00{:}39{:}36.440 \dashrightarrow 00{:}39{:}38.546$ My impression if I were to do that in

NOTE Confidence: 0.694465529

00:39:38.546 --> 00:39:40.804 kids with Down syndrome is that they

NOTE Confidence: 0.694465529

 $00:39:40.804 \longrightarrow 00:39:42.463$ would have critical closing pressure

NOTE Confidence: 0.694465529

 $00:39:42.463 \longrightarrow 00:39:44.735$ of the upper airway close to 0 or

NOTE Confidence: 0.694465529

 $00{:}39{:}44.735 \dashrightarrow 00{:}39{:}46.404$ positive values close to a dults.

NOTE Confidence: 0.694465529

 $00:39:46.404 \longrightarrow 00:39:48.860$ But those studies have not been done.

NOTE Confidence: 0.694465529

 $00:39:48.860 \longrightarrow 00:39:51.247$ Now in terms of the responsive to

NOTE Confidence: 0.694465529

 $00{:}39{:}51.247 \dashrightarrow 00{:}39{:}53.140$ inspire your inspires is fantastic.

NOTE Confidence: 0.694465529

 $00:39:53.140 \longrightarrow 00:39:55.636$ However, it is not for everybody.

NOTE Confidence: 0.694465529

00:39:55.640 --> 00:39:57.880 You need to have a certain anatomic

NOTE Confidence: 0.694465529

 $00:39:57.880 \longrightarrow 00:39:59.840$ obstruction that is showing in dice.

NOTE Confidence: 0.694465529

 $00:39:59.840 \longrightarrow 00:40:01.480$ To be candidate for inspire.

NOTE Confidence: 0.694465529

 $00:40:01.480 \longrightarrow 00:40:03.426$ And the other thing is that the

NOTE Confidence: 0.694465529

 $00:40:03.426 \longrightarrow 00:40:04.849$ large trials inspire in adults.

NOTE Confidence: 0.694465529

 $00:40:04.850 \longrightarrow 00:40:06.218$ They show a reduction,

 $00:40:06.218 \longrightarrow 00:40:08.466$ immediate reduction in the OHI of 50%.

NOTE Confidence: 0.694465529

 $00:40:08.466 \longrightarrow 00:40:11.199$ So it doesn't mean that it will be cured.

NOTE Confidence: 0.694465529

00:40:11.200 --> 00:40:13.693 So let's say if I had a child with

NOTE Confidence: 0.694465529

00:40:13.693 --> 00:40:16.396 Down syndrome who had an OH, IO50I.

NOTE Confidence: 0.694465529

00:40:16.396 --> 00:40:19.384 Wouldn't be OK with my child

NOTE Confidence: 0.694465529

 $00:40:19.384 \longrightarrow 00:40:21.309$ having another child 25.

NOTE Confidence: 0.694465529

00:40:21.310 --> 00:40:23.326 I wouldn't my child to have

NOTE Confidence: 0.694465529

 $00:40:23.326 \longrightarrow 00:40:25.950$ closer to 0 or less than five.

NOTE Confidence: 0.694465529

 $00{:}40{:}25.950 \rightarrow 00{:}40{:}29.388$ Cpap does that, but it has to be adherent.

NOTE Confidence: 0.694465529

 $00:40:29.390 \longrightarrow 00:40:31.586$ So for me, the first line,

NOTE Confidence: 0.694465529 00:40:31.590 --> 00:40:31.870 yeah, NOTE Confidence: 0.694465529

 $00:40:31.870 \longrightarrow 00:40:34.110$ I mean we still do an option selection

NOTE Confidence: 0.694465529

 $00{:}40{:}34.110 \dashrightarrow 00{:}40{:}36.525$ until we prove that it's not for every body.

NOTE Confidence: 0.694465529

 $00:40:36.530 \longrightarrow 00:40:37.808$ But it would be like after

NOTE Confidence: 0.694465529

 $00:40:37.808 \longrightarrow 00:40:38.660$ that would be like

00:40:38.712 --> 00:40:40.420 CPAP with all the bells and whistle,

NOTE Confidence: 0.857049216470588

00:40:40.420 --> 00:40:41.344 the psychologist, whatever,

NOTE Confidence: 0.857049216470588

00:40:41.344 --> 00:40:42.884 if that doesn't work out

NOTE Confidence: 0.857049216470588

 $00:40:42.884 \longrightarrow 00:40:43.960$ that eventually inspired.

NOTE Confidence: 0.857049216470588

 $00:40:43.960 \longrightarrow 00:40:47.408$ But with the cabinet that inspire may not.

NOTE Confidence: 0.857049216470588

00:40:47.410 --> 00:40:49.354 Cure you and also many of the kids

NOTE Confidence: 0.857049216470588

 $00:40:49.354 \longrightarrow 00:40:51.375$ were now are part of this trial

NOTE Confidence: 0.857049216470588

 $00:40:51.375 \longrightarrow 00:40:53.171$ inspired trial here they wake up

NOTE Confidence: 0.857049216470588

 $00:40:53.171 \longrightarrow 00:40:54.991$ during the titration and so we are

NOTE Confidence: 0.857049216470588

 $00:40:54.991 \longrightarrow 00:40:57.788$ not able to get to the to the output

NOTE Confidence: 0.857049216470588

 $00:40:57.788 \longrightarrow 00:40:59.867$ in millivolts that we want because

NOTE Confidence: 0.857049216470588

 $00:40:59.867 \longrightarrow 00:41:02.282$ the kid wakes up with the inspire

NOTE Confidence: 0.857049216470588

 $00:41:02.356 \longrightarrow 00:41:04.712$ other complication that it has now

NOTE Confidence: 0.857049216470588

 $00:41:04.712 \longrightarrow 00:41:06.406$ the important thing is not not use

NOTE Confidence: 0.857049216470588

 $00:41:06.406 \longrightarrow 00:41:08.384$ this and don't use that or don't

NOTE Confidence: 0.857049216470588

 $00:41:08.384 \longrightarrow 00:41:09.824$ use public use inspire whatever.

 $00:41:09.830 \longrightarrow 00:41:11.622$ The thing is that we need to

NOTE Confidence: 0.857049216470588

 $00{:}41{:}11.622 \to 00{:}41{:}12.760$ continue developing more alternatives

NOTE Confidence: 0.857049216470588

 $00:41:12.760 \longrightarrow 00:41:14.370$ so people can have options.

NOTE Confidence: 0.857049216470588

00:41:14.370 --> 00:41:15.938 Right now for example I have a headache

NOTE Confidence: 0.857049216470588

00:41:15.938 --> 00:41:17.426 I can take Tylenol I can take.

NOTE Confidence: 0.857049216470588

00:41:17.430 --> 00:41:18.660 Military, I can do this,

NOTE Confidence: 0.857049216470588

 $00:41:18.660 \longrightarrow 00:41:19.652$ I can do whatever,

NOTE Confidence: 0.857049216470588

 $00{:}41{:}19.652 \dashrightarrow 00{:}41{:}21.140$ but you have always saying you

NOTE Confidence: 0.857049216470588

 $00{:}41{:}21.193 \dashrightarrow 00{:}41{:}22.429$ have a developmental disability

NOTE Confidence: 0.857049216470588

 $00:41:22.429 \longrightarrow 00:41:23.974$ and your son was stuck.

NOTE Confidence: 0.857049216470588

 $00:41:23.980 \longrightarrow 00:41:27.556$ So that's our role to advocate.

NOTE Confidence: 0.857049216470588

00:41:27.560 --> 00:41:29.876 Make noise and make people visible,

NOTE Confidence: 0.857049216470588

 $00{:}41{:}29.880 \dashrightarrow 00{:}41{:}32.568$ you know, if they're not visible.

NOTE Confidence: 0.857049216470588

 $00:41:32.570 \longrightarrow 00:41:33.340$ Nobody cares.

NOTE Confidence: 0.894269741428571 00:41:34.740 --> 00:41:35.248 Thank you.

 $00:41:35.248 \longrightarrow 00:41:36.518$ We have some more questions.

NOTE Confidence: 0.894269741428571

 $00{:}41{:}36.520 \to 00{:}41{:}37.798$ And Doctor Tapia,

NOTE Confidence: 0.894269741428571

00:41:37.798 --> 00:41:40.354 this is from Doctor David Angel.

NOTE Confidence: 0.894269741428571

 $00:41:40.360 \longrightarrow 00:41:42.040$ Do you have a preferred interface

NOTE Confidence: 0.894269741428571

 $00:41:42.040 \longrightarrow 00:41:43.638$ you use with this population

NOTE Confidence: 0.894269741428571

 $00:41:43.638 \longrightarrow 00:41:45.310$ given their facial anatomy?

NOTE Confidence: 0.85247899

 $00:41:45.840 \longrightarrow 00:41:48.260$ It depends so much on the size of the kids.

NOTE Confidence: 0.85247899

00:41:48.260 --> 00:41:51.300 So many times the WISP works well like

NOTE Confidence: 0.85247899

 $00:41:51.300 \longrightarrow 00:41:53.916$ like only nasal typically then we prefer

NOTE Confidence: 0.85247899

 $00:41:53.916 \longrightarrow 00:41:55.980$ to start with the nasal interfaces.

NOTE Confidence: 0.85247899

 $00{:}41{:}55.980 \dashrightarrow 00{:}41{:}57.300$ Now when we have proved that

NOTE Confidence: 0.85247899

 $00:41:57.300 \longrightarrow 00:41:58.610$ the kids have for example,

NOTE Confidence: 0.85247899

 $00:41:58.610 \longrightarrow 00:42:00.326$ like a strong mouth breathing and

NOTE Confidence: 0.85247899

 $00:42:00.326 \longrightarrow 00:42:02.065$ despite the high pressures they they're

NOTE Confidence: 0.85247899

00:42:02.065 --> 00:42:03.709 not able to have nasal breathing,

NOTE Confidence: 0.85247899

 $00:42:03.710 \longrightarrow 00:42:05.600$ then we will go to oronasal.

 $00:42:05.600 \longrightarrow 00:42:07.581$ But with Oronasal we we need to

NOTE Confidence: 0.85247899

 $00{:}42{:}07.581 \dashrightarrow 00{:}42{:}09.057$ have some assurance that someone

NOTE Confidence: 0.85247899

 $00:42:09.057 \longrightarrow 00:42:11.038$ is with the kid overnight just in

NOTE Confidence: 0.85247899

00:42:11.038 --> 00:42:12.912 case they have vomiting and they may

NOTE Confidence: 0.85247899

 $00:42:12.912 \longrightarrow 00:42:15.668$ not be able to remove the the mask.

NOTE Confidence: 0.886149

 $00:42:16.860 \longrightarrow 00:42:19.548$ OK. There is a comment,

NOTE Confidence: 0.886149

 $00:42:19.548 \longrightarrow 00:42:20.970$ thank you for a great talk

NOTE Confidence: 0.886149

 $00:42:21.031 \longrightarrow 00:42:22.216$ and a question by Sony.

NOTE Confidence: 0.886149

00:42:22.220 --> 00:42:24.308 Vejar any collaboration with

NOTE Confidence: 0.886149

 $00{:}42{:}24.308 \dashrightarrow 00{:}42{:}26.396$ dental medicine like mandibular

NOTE Confidence: 0.886149

 $00:42:26.396 \longrightarrow 00:42:28.669$ advancement, appliances, we we

NOTE Confidence: 0.798564580833333

 $00:42:28.680 \longrightarrow 00:42:30.504$ have not actually collaborated with them

NOTE Confidence: 0.798564580833333

 $00{:}42{:}30.504 \dashrightarrow 00{:}42{:}32.499$ officially like on the research realm.

NOTE Confidence: 0.798564580833333

 $00{:}42{:}32.500 \dashrightarrow 00{:}42{:}34.408$ We have collaborated with them clinically

NOTE Confidence: 0.798564580833333

00:42:34.408 --> 00:42:36.759 and eventually we do send patients there,

 $00:42:36.760 \longrightarrow 00:42:40.316$ but it's the minority of our patients.

NOTE Confidence: 0.798564580833333

00:42:40.320 --> 00:42:42.248 Something that we didn't touch up on because

NOTE Confidence: 0.798564580833333

00:42:42.248 --> 00:42:44.257 it sort of discredited his tracheostomy,

NOTE Confidence: 0.798564580833333

00:42:44.260 --> 00:42:46.150 something that I typically do not

NOTE Confidence: 0.798564580833333

00:42:46.150 --> 00:42:48.205 indicate for OSA, but I had a patient

NOTE Confidence: 0.798564580833333

00:42:48.205 --> 00:42:49.540 referred to me already years ago,

NOTE Confidence: 0.798564580833333

00:42:49.540 --> 00:42:51.673 like four or five years ago that was had

NOTE Confidence: 0.798564580833333

00:42:51.673 --> 00:42:54.174 a tracheostomy 4 was saying that different

NOTE Confidence: 0.798564580833333

 $00:42:54.174 \longrightarrow 00:42:56.316$ institution and mom came here because

NOTE Confidence: 0.798564580833333

 $00:42:56.316 \longrightarrow 00:42:58.451$ she wanted to decannulation her and go

NOTE Confidence: 0.798564580833333

 $00{:}42{:}58.451 \dashrightarrow 00{:}43{:}01.400$ to now parental situation or whatever.

NOTE Confidence: 0.798564580833333

 $00:43:01.400 \longrightarrow 00:43:05.396$ The kid was never able really to use PAP.

NOTE Confidence: 0.798564580833333

 $00:43:05.400 \longrightarrow 00:43:07.704$ However, all the studies with the

NOTE Confidence: 0.798564580833333

00:43:07.704 --> 00:43:09.240 tracheostomy open are amazing.

NOTE Confidence: 0.798564580833333

 $00:43:09.240 \longrightarrow 00:43:10.696$ So you know then you have to.

NOTE Confidence: 0.798564580833333

 $00:43:10.700 \longrightarrow 00:43:12.212$ Have the conversation that I have with

00:43:12.212 --> 00:43:14.390 this family, you know the kid is treated,

NOTE Confidence: 0.798564580833333

 $00:43:14.390 \longrightarrow 00:43:17.386$ we are safe track is not pretty.

NOTE Confidence: 0.798564580833333

 $00{:}43{:}17.390 \dashrightarrow 00{:}43{:}19.148$ It has some complications and a

NOTE Confidence: 0.798564580833333

 $00:43:19.148 \longrightarrow 00:43:21.233$ lot of things, but it's treated.

NOTE Confidence: 0.798564580833333

00:43:21.233 --> 00:43:24.770 So we have to evaluate when that happens,

NOTE Confidence: 0.798564580833333

 $00:43:24.770 \longrightarrow 00:43:27.402$ you know whether it's worth to the

NOTE Confidence: 0.798564580833333

00:43:27.402 --> 00:43:29.619 candidating everybody or not some people.

NOTE Confidence: 0.798564580833333

 $00:43:29.620 \longrightarrow 00:43:30.580$ Might not be able to.

NOTE Confidence: 0.798564580833333

00:43:30.580 --> 00:43:31.460 It's something to consider,

NOTE Confidence: 0.798564580833333 00:43:31.460 --> 00:43:31.900 you know,

NOTE Confidence: 0.798564580833333

 $00:43:31.900 \longrightarrow 00:43:34.508$ I think there's a treatment or of there's

NOTE Confidence: 0.798564580833333

 $00:43:34.508 \longrightarrow 00:43:37.259$ room for every treatment in these cases.

NOTE Confidence: 0.819814411666667

 $00{:}43{:}41.340 \dashrightarrow 00{:}43{:}43.638$ I have a question for you.

NOTE Confidence: 0.819814411666667

 $00{:}43{:}43.640 \dashrightarrow 00{:}43{:}45.560$ You shared some excellent strategies

NOTE Confidence: 0.819814411666667

 $00:43:45.560 \longrightarrow 00:43:48.181$ to use with patients with kids with

00:43:48.181 --> 00:43:50.400 Down syndrome and the usage of CPAP.

NOTE Confidence: 0.819814411666667

 $00:43:50.400 \longrightarrow 00:43:52.731$ Do you have any such recommendations once

NOTE Confidence: 0.819814411666667

00:43:52.731 --> 00:43:54.884 they transition to adulthood? You know,

NOTE Confidence: 0.819814411666667

00:43:54.884 --> 00:43:56.788 in terms of compliance using the app,

NOTE Confidence: 0.777459922307692

 $00:43:57.220 \longrightarrow 00:43:59.509$ yes, well typically we try to transition

NOTE Confidence: 0.777459922307692

 $00:43:59.509 \longrightarrow 00:44:01.799$ them when they are already adherent.

NOTE Confidence: 0.777459922307692

 $00:44:01.800 \longrightarrow 00:44:03.036$ It doesn't happen all the time.

NOTE Confidence: 0.777459922307692

 $00:44:03.040 \longrightarrow 00:44:04.774$ So continue doing what they what

NOTE Confidence: 0.777459922307692

 $00{:}44{:}04.774 \dashrightarrow 00{:}44{:}06.560$ they are doing and for a dult,

NOTE Confidence: 0.777459922307692

 $00:44:06.560 \longrightarrow 00:44:08.228$ I think they have less allotted

NOTE Confidence: 0.777459922307692

 $00:44:08.228 \longrightarrow 00:44:10.139$ time maybe to see the patients,

NOTE Confidence: 0.777459922307692

 $00:44:10.140 \longrightarrow 00:44:10.900$ but it would be to.

NOTE Confidence: 0.777459922307692

 $00:44:10.900 \longrightarrow 00:44:12.364$ Continue with the positive

NOTE Confidence: 0.777459922307692

00:44:12.364 --> 00:44:13.828 reinforcement depending on the

NOTE Confidence: 0.777459922307692

00:44:13.828 --> 00:44:15.129 developmental stage of the kid.

NOTE Confidence: 0.777459922307692

 $00:44:15.130 \longrightarrow 00:44:17.160$ Now with the apps are super friendly

 $00:44:17.160 \longrightarrow 00:44:19.190$ and they all played some sort of

NOTE Confidence: 0.777459922307692

 $00:44:19.190 \longrightarrow 00:44:21.225$ video game is to show them look

NOTE Confidence: 0.777459922307692

 $00:44:21.225 \longrightarrow 00:44:23.253$ when the app shows green amazing

NOTE Confidence: 0.777459922307692

 $00:44:23.253 \longrightarrow 00:44:25.143$ like something that they like to

NOTE Confidence: 0.777459922307692

 $00{:}44{:}25.143 \dashrightarrow 00{:}44{:}27.180$ do for example like a small token

NOTE Confidence: 0.777459922307692

00:44:27.245 --> 00:44:29.459 economy you want works really well.

NOTE Confidence: 0.958440095

00:44:31.430 --> 00:44:33.840 Thank you. Any

NOTE Confidence: 0.75331073

 $00:44:33.850 \longrightarrow 00:44:34.482$ other something?

NOTE Confidence: 0.75331073

 $00:44:34.482 \longrightarrow 00:44:37.412$ Yeah, my my last point of words of wisdom

NOTE Confidence: 0.75331073

 $00:44:37.412 \longrightarrow 00:44:39.743$ that I learned from my own patients.

NOTE Confidence: 0.75331073

00:44:39.750 --> 00:44:42.596 You know what we were doing the R61 study,

NOTE Confidence: 0.75331073

 $00:44:42.596 \longrightarrow 00:44:44.744$ the qualitative interviews is for caregivers.

NOTE Confidence: 0.75331073

 $00{:}44{:}44.750 \dashrightarrow 00{:}44{:}46.507$ And then parents start to just say,

NOTE Confidence: 0.75331073

 $00{:}44{:}46.510 --> 00{:}44{:}47.406$ oh, you want to talk to me,

NOTE Confidence: 0.75331073

 $00:44:47.410 \longrightarrow 00:44:48.946$ you don't want to talk to the child.

00:44:48.950 --> 00:44:50.570 And between us we were talking,

NOTE Confidence: 0.75331073

 $00:44:50.570 \longrightarrow 00:44:51.788$ can we talk to the child?

NOTE Confidence: 0.75331073

00:44:51.790 --> 00:44:53.644 And then we decided why are we so stupid?

NOTE Confidence: 0.75331073

00:44:53.650 --> 00:44:55.714 I mean we should talk to the children

NOTE Confidence: 0.75331073

 $00:44:55.714 \longrightarrow 00:44:57.667$ and let's see what we come up with.

NOTE Confidence: 0.75331073

 $00:44:57.670 \longrightarrow 00:44:59.482$ So now in the continuation and

NOTE Confidence: 0.75331073

 $00:44:59.482 \longrightarrow 00:45:00.690$ the randomized control trial,

NOTE Confidence: 0.75331073

 $00:45:00.690 \longrightarrow 00:45:01.894$ we put some qualitative

NOTE Confidence: 0.75331073

 $00:45:01.894 \longrightarrow 00:45:03.700$ interviews and the end of the.

NOTE Confidence: 0.75331073

 $00:45:03.700 \longrightarrow 00:45:04.726$ Of the sessions,

NOTE Confidence: 0.75331073

 $00{:}45{:}04.726 \dashrightarrow 00{:}45{:}06.778$ and we're talking to the parents

NOTE Confidence: 0.75331073

 $00:45:06.778 \longrightarrow 00:45:08.810$ about the trial and to the kids.

NOTE Confidence: 0.75331073

 $00:45:08.810 \longrightarrow 00:45:10.094$ We know that maybe not every

NOTE Confidence: 0.75331073

 $00:45:10.094 \longrightarrow 00:45:11.720$ kid will be able to participate.

NOTE Confidence: 0.75331073

00:45:11.720 --> 00:45:13.519 Sometimes the parent will sort of

NOTE Confidence: 0.75331073

 $00{:}45{:}13.519 \dashrightarrow 00{:}45{:}15.068$ translate what the kids want to do,

 $00:45:15.070 \longrightarrow 00:45:16.904$ but we don't go to the source.

NOTE Confidence: 0.75331073

 $00:45:16.910 \longrightarrow 00:45:18.584$ I don't feel that we can advance the field.

NOTE Confidence: 0.75331073

 $00:45:18.590 \longrightarrow 00:45:19.778$ So it's something that we have

NOTE Confidence: 0.75331073

00:45:19.778 --> 00:45:21.249 to get rid of this story of,

NOTE Confidence: 0.75331073

00:45:21.250 --> 00:45:22.660 of by proxy of thinking that

NOTE Confidence: 0.75331073

 $00:45:22.660 \longrightarrow 00:45:23.923$ we're smarter than the next

NOTE Confidence: 0.75331073

00:45:23.923 --> 00:45:25.027 person because it's just,

NOTE Confidence: 0.75331073

 $00:45:25.030 \longrightarrow 00:45:25.760$ I don't think it's true.

NOTE Confidence: 0.6451105

 $00:45:28.710 \longrightarrow 00:45:29.240$ Great.

NOTE Confidence: 0.918652733333333

 $00:45:30.820 \longrightarrow 00:45:32.329$ Any other questions?

NOTE Confidence: 0.7188337

00:45:36.020 --> 00:45:39.002 Well. Thank you so much for sharing

NOTE Confidence: 0.7188337

 $00:45:39.002 \longrightarrow 00:45:40.930$ your work and this wonderful talk.

NOTE Confidence: 0.7188337

 $00{:}45{:}40.930 \dashrightarrow 00{:}45{:}42.760$ Doctor Tapia, thank you so much.

NOTE Confidence: 0.830926752

 $00:45:42.930 \longrightarrow 00:45:44.490$ Thank you for the invitation.

NOTE Confidence: 0.830926752

 $00:45:44.490 \longrightarrow 00:45:46.166$ Have you a good day, you guys

00:45:46.166 --> 00:45:51.080 enjoy the snow. Thank you. Bye.