

WEBVTT

NOTE duration:"01:01:12"

NOTE recognizability:0.840

NOTE language:en-us

NOTE Confidence: 0.8781881

00:00:08.930 --> 00:00:10.679 So good afternoon everyone.

NOTE Confidence: 0.8781881

00:00:10.679 --> 00:00:13.194 So welcome to sleep seminar.

NOTE Confidence: 0.912842125384615

00:00:13.200 --> 00:00:15.472 So it's my first. I'd like to start

NOTE Confidence: 0.912842125384615

00:00:15.472 --> 00:00:18.182 with a couple of reminders that that

NOTE Confidence: 0.912842125384615

00:00:18.182 --> 00:00:20.137 these seminar sessions are available

NOTE Confidence: 0.912842125384615

00:00:20.137 --> 00:00:22.885 for CME credit and that in order to

NOTE Confidence: 0.912842125384615

00:00:22.885 --> 00:00:25.032 receive credit you do need to text

NOTE Confidence: 0.912842125384615

00:00:25.032 --> 00:00:27.027 the unique ID to the Yale cloud.

NOTE Confidence: 0.912842125384615

00:00:27.030 --> 00:00:28.900 See any account that information

NOTE Confidence: 0.912842125384615

00:00:28.900 --> 00:00:31.210 will show up in the chat.

NOTE Confidence: 0.912842125384615

00:00:31.210 --> 00:00:32.340 If you do have questions.

NOTE Confidence: 0.912842125384615

00:00:32.340 --> 00:00:33.429 During the talk,

NOTE Confidence: 0.912842125384615

00:00:33.429 --> 00:00:36.250 please use the chat feature so that way

NOTE Confidence: 0.912842125384615

00:00:36.250 --> 00:00:38.500 we can get to those questions at the end.

NOTE Confidence: 0.912842125384615

00:00:38.500 --> 00:00:40.714 Otherwise at the end we can ask you to

NOTE Confidence: 0.912842125384615

00:00:40.714 --> 00:00:42.786 unmute yourselves if you prefer to ask

NOTE Confidence: 0.912842125384615

00:00:42.786 --> 00:00:44.898 your own questions and then finally do,

NOTE Confidence: 0.912842125384615

00:00:44.900 --> 00:00:46.464 please keep your microphone

NOTE Confidence: 0.912842125384615

00:00:46.464 --> 00:00:48.028 muted throughout the talk.

NOTE Confidence: 0.912842125384615

00:00:48.030 --> 00:00:50.726 So now it is my great pleasure to

NOTE Confidence: 0.912842125384615

00:00:50.726 --> 00:00:52.599 introduce today's speaker Dr Siren,

NOTE Confidence: 0.912842125384615

00:00:52.600 --> 00:00:53.532 Pastor Athy.

NOTE Confidence: 0.912842125384615

00:00:53.532 --> 00:00:53.998 Dr.

NOTE Confidence: 0.912842125384615

00:00:53.998 --> 00:00:55.862 Parthasarathy is professor of

NOTE Confidence: 0.912842125384615

00:00:55.862 --> 00:00:58.069 medicine at University of Arizona,

NOTE Confidence: 0.912842125384615

00:00:58.070 --> 00:01:00.170 chief of the Division of Pulmonary

NOTE Confidence: 0.912842125384615

00:01:00.170 --> 00:01:02.510 Allergy Critical Care and Sleep Medicine.

NOTE Confidence: 0.912842125384615

00:01:02.510 --> 00:01:04.325 Director of the University of

NOTE Confidence: 0.912842125384615

00:01:04.325 --> 00:01:05.777 Arizona Health Sciences Center

NOTE Confidence: 0.912842125384615
00:01:05.777 --> 00:01:07.847 for Sleep and Circadian Sciences.
NOTE Confidence: 0.912842125384615
00:01:07.850 --> 00:01:09.980 Medical director for the Center of
NOTE Confidence: 0.912842125384615
00:01:09.980 --> 00:01:11.400 Sleep Disorders Banner University
NOTE Confidence: 0.912842125384615
00:01:11.456 --> 00:01:13.554 Medical Center in Tucson and program
NOTE Confidence: 0.912842125384615
00:01:13.554 --> 00:01:16.086 director for the Sleep Fellowship program.
NOTE Confidence: 0.912842125384615
00:01:16.090 --> 00:01:18.016 He received his medical degree from
NOTE Confidence: 0.912842125384615
00:01:18.016 --> 00:01:19.782 Madras Medical College in India
NOTE Confidence: 0.912842125384615
00:01:19.782 --> 00:01:21.470 and following anesthesia training.
NOTE Confidence: 0.912842125384615
00:01:21.470 --> 00:01:23.374 Did his postdoctoral training,
NOTE Confidence: 0.912842125384615
00:01:23.374 --> 00:01:25.754 including a pulmonary critical care
NOTE Confidence: 0.912842125384615
00:01:25.754 --> 00:01:27.588 fellowship in Chicago at Loyola.
NOTE Confidence: 0.912842125384615
00:01:27.590 --> 00:01:29.515 He was director of the Sleep Disorder
NOTE Confidence: 0.912842125384615
00:01:29.515 --> 00:01:31.392 Center at Loyola before moving to
NOTE Confidence: 0.912842125384615
00:01:31.392 --> 00:01:33.302 University of Arizona, where he spent.
NOTE Confidence: 0.912842125384615
00:01:33.302 --> 00:01:34.518 Much of his career.
NOTE Confidence: 0.912842125384615

00:01:34.520 --> 00:01:36.500 He has received numerous awards
NOTE Confidence: 0.912842125384615

00:01:36.500 --> 00:01:38.480 and served on multiple editorial
NOTE Confidence: 0.912842125384615

00:01:38.545 --> 00:01:40.650 boards including the Blue Journal,
NOTE Confidence: 0.912842125384615

00:01:40.650 --> 00:01:42.186 the Journal of Clinical Seat Medicine,
NOTE Confidence: 0.912842125384615

00:01:42.190 --> 00:01:42.816 and Sleep.
NOTE Confidence: 0.912842125384615

00:01:42.816 --> 00:01:45.007 His work is really far ranging and
NOTE Confidence: 0.912842125384615

00:01:45.007 --> 00:01:47.686 his CV includes over 100 come somewhat
NOTE Confidence: 0.912842125384615

00:01:47.686 --> 00:01:49.801 diverse and peer reviewed publications
NOTE Confidence: 0.912842125384615

00:01:49.801 --> 00:01:52.356 with many additional book chapters,
NOTE Confidence: 0.912842125384615

00:01:52.360 --> 00:01:54.404 abstracts and invited presentations.
NOTE Confidence: 0.912842125384615

00:01:54.404 --> 00:01:57.935 He has been a strong force in
NOTE Confidence: 0.912842125384615

00:01:57.935 --> 00:02:00.227 education in both ATS and ASM.
NOTE Confidence: 0.912842125384615

00:02:00.230 --> 00:02:02.210 His current research interests include
NOTE Confidence: 0.912842125384615

00:02:02.210 --> 00:02:04.620 sleep intervention during acute lung injury,
NOTE Confidence: 0.912842125384615

00:02:04.620 --> 00:02:06.360 positive airway pressure therapy for sleep,
NOTE Confidence: 0.912842125384615

00:02:06.360 --> 00:02:07.096 disordered breathing,

NOTE Confidence: 0.912842125384615
00:02:07.096 --> 00:02:08.200 and heart failure.
NOTE Confidence: 0.912842125384615
00:02:08.200 --> 00:02:09.915 Adherence to CPAP therapy in
NOTE Confidence: 0.912842125384615
00:02:09.915 --> 00:02:10.944 patients with sleep,
NOTE Confidence: 0.912842125384615
00:02:10.950 --> 00:02:12.201 disordered breathing and
NOTE Confidence: 0.912842125384615
00:02:12.201 --> 00:02:13.869 sleep deprivation in urine.
NOTE Confidence: 0.912842125384615
00:02:13.870 --> 00:02:16.495 Models we are so pleased to have
NOTE Confidence: 0.912842125384615
00:02:16.495 --> 00:02:18.563 doctor Pothys Rocky joined us
NOTE Confidence: 0.912842125384615
00:02:18.563 --> 00:02:20.728 today to discuss CPAP adherence,
NOTE Confidence: 0.912842125384615
00:02:20.730 --> 00:02:21.520 treatment, treatment,
NOTE Confidence: 0.912842125384615
00:02:21.520 --> 00:02:23.890 adherence in patients with sleep apnea,
NOTE Confidence: 0.912842125384615
00:02:23.890 --> 00:02:24.991 welcome doctor practice,
NOTE Confidence: 0.912842125384615
00:02:24.991 --> 00:02:25.358 wealthy.
NOTE Confidence: 0.811860081333333
00:02:26.310 --> 00:02:27.942 Thank you, thanks Janet.
NOTE Confidence: 0.811860081333333
00:02:27.942 --> 00:02:30.752 Thanks for the kind of invitation and
NOTE Confidence: 0.811860081333333
00:02:30.752 --> 00:02:33.344 thanks to all I see a lot of familiar
NOTE Confidence: 0.811860081333333

00:02:33.421 --> 00:02:36.061 faces and hello to everyone at Yale and
NOTE Confidence: 0.811860081333333
00:02:36.061 --> 00:02:40.420 it's an honor to be amongst you and.
NOTE Confidence: 0.811860081333333
00:02:40.420 --> 00:02:41.410 I will be talking about
NOTE Confidence: 0.811860081333333
00:02:41.410 --> 00:02:42.202 see Pepper Durance today.
NOTE Confidence: 0.811860081333333
00:02:42.210 --> 00:02:43.715 I understand you have a hard stop.
NOTE Confidence: 0.811860081333333
00:02:43.720 --> 00:02:48.160 So uh, I will try to stay within
NOTE Confidence: 0.811860081333333
00:02:48.160 --> 00:02:49.900 my time limit so that there's
NOTE Confidence: 0.811860081333333
00:02:49.900 --> 00:02:51.410 time for some questions.
NOTE Confidence: 0.811860081333333
00:02:51.410 --> 00:02:55.340 So I do have a disclosure.
NOTE Confidence: 0.811860081333333
00:02:55.340 --> 00:02:58.707 I am a consultant for Jazz Pharmaceuticals
NOTE Confidence: 0.811860081333333
00:02:58.707 --> 00:03:02.437 and I believe this is information for
NOTE Confidence: 0.811860081333333
00:03:02.437 --> 00:03:06.770 your folks who are interested in CME.
NOTE Confidence: 0.811860081333333
00:03:06.770 --> 00:03:09.745 Uhm, I you know these are some
NOTE Confidence: 0.811860081333333
00:03:09.745 --> 00:03:12.410 of my funding sources, UM?
NOTE Confidence: 0.811860081333333
00:03:12.410 --> 00:03:15.530 I wanted to start off with
NOTE Confidence: 0.811860081333333
00:03:15.530 --> 00:03:17.090 this philosophical slide.

NOTE Confidence: 0.811860081333333
00:03:17.090 --> 00:03:20.086 Uhm, uhm, and this is Everett Koop,
NOTE Confidence: 0.811860081333333
00:03:20.090 --> 00:03:22.729 who as you know the surgeon General
NOTE Confidence: 0.811860081333333
00:03:22.729 --> 00:03:26.190 who wrote his article and smoking,
NOTE Confidence: 0.811860081333333
00:03:26.190 --> 00:03:29.112 which was revealing as to how
NOTE Confidence: 0.811860081333333
00:03:29.112 --> 00:03:31.849 smoking can actually cause harm so.
NOTE Confidence: 0.811860081333333
00:03:31.850 --> 00:03:34.146 Uh, my mentor actually worked with him
NOTE Confidence: 0.811860081333333
00:03:34.146 --> 00:03:36.460 on that particular project of the report.
NOTE Confidence: 0.811860081333333
00:03:36.460 --> 00:03:38.588 The Surgeon General's report on how smoking
NOTE Confidence: 0.811860081333333
00:03:38.588 --> 00:03:40.708 can be harmful because prior to that,
NOTE Confidence: 0.811860081333333
00:03:40.710 --> 00:03:41.572 it wasn't.
NOTE Confidence: 0.811860081333333
00:03:41.572 --> 00:03:44.633 So he's as a high stature in
NOTE Confidence: 0.811860081333333
00:03:44.633 --> 00:03:47.471 medicine and public health in the
NOTE Confidence: 0.811860081333333
00:03:47.471 --> 00:03:50.060 United States and he famously said,
NOTE Confidence: 0.811860081333333
00:03:50.060 --> 00:03:50.880 you know,
NOTE Confidence: 0.811860081333333
00:03:50.880 --> 00:03:53.052 drugs don't work in patients who
NOTE Confidence: 0.811860081333333

00:03:53.052 --> 00:03:54.138 don't take them.
NOTE Confidence: 0.811860081333333
00:03:54.140 --> 00:03:55.700 So I guess you can say,
NOTE Confidence: 0.811860081333333
00:03:55.700 --> 00:03:57.990 supplant that with C PAP.
NOTE Confidence: 0.811860081333333
00:03:57.990 --> 00:04:01.930 And so that's essentially my.
NOTE Confidence: 0.811860081333333
00:04:01.930 --> 00:04:03.354 One and only slide,
NOTE Confidence: 0.811860081333333
00:04:03.354 --> 00:04:06.923 so I will just finish the talk very quickly
NOTE Confidence: 0.811860081333333
00:04:06.923 --> 00:04:10.080 so that I can entertain some questions.
NOTE Confidence: 0.811860081333333
00:04:10.080 --> 00:04:11.536 Now it's just kidding,
NOTE Confidence: 0.811860081333333
00:04:11.536 --> 00:04:14.120 so I think it's very important
NOTE Confidence: 0.811860081333333
00:04:14.120 --> 00:04:18.620 to recognize that CPAP adherence
NOTE Confidence: 0.811860081333333
00:04:18.620 --> 00:04:24.945 not only informs how we can
NOTE Confidence: 0.811860081333333
00:04:24.945 --> 00:04:27.590 help patients symptomatology and
NOTE Confidence: 0.811860081333333
00:04:27.590 --> 00:04:29.360 prevent downstream consequences,
NOTE Confidence: 0.811860081333333
00:04:29.360 --> 00:04:32.070 but also.
NOTE Confidence: 0.811860081333333
00:04:32.070 --> 00:04:34.932 CPAP here and seems to be playing a big
NOTE Confidence: 0.811860081333333
00:04:34.932 --> 00:04:38.136 role in how we creating scientific evidence,

NOTE Confidence: 0.811860081333333
00:04:38.140 --> 00:04:40.618 so that's kind of unique to this
NOTE Confidence: 0.811860081333333
00:04:40.618 --> 00:04:42.170 particular area of study.
NOTE Confidence: 0.811860081333333
00:04:42.170 --> 00:04:44.570 It's just not downstream
NOTE Confidence: 0.811860081333333
00:04:44.570 --> 00:04:45.770 implementation signs,
NOTE Confidence: 0.811860081333333
00:04:45.770 --> 00:04:47.954 but it seems to also be affecting
NOTE Confidence: 0.811860081333333
00:04:47.954 --> 00:04:49.620 the scientific body of evidence
NOTE Confidence: 0.811860081333333
00:04:49.620 --> 00:04:51.630 that we are developing that can
NOTE Confidence: 0.811860081333333
00:04:51.630 --> 00:04:53.491 actually show that treatment of
NOTE Confidence: 0.811860081333333
00:04:53.491 --> 00:04:55.366 sleep apnea can improve outcomes.
NOTE Confidence: 0.811860081333333
00:04:55.370 --> 00:04:57.855 So the objectives for a talk today
NOTE Confidence: 0.811860081333333
00:04:57.855 --> 00:05:00.524 are two sort of from a health
NOTE Confidence: 0.811860081333333
00:05:00.524 --> 00:05:01.898 services research standpoint.
NOTE Confidence: 0.811860081333333
00:05:01.900 --> 00:05:03.876 Talk about some of the health care policies,
NOTE Confidence: 0.811860081333333
00:05:03.880 --> 00:05:05.008 UM, in this area,
NOTE Confidence: 0.811860081333333
00:05:05.008 --> 00:05:07.240 which I can tie into see Pepper,
NOTE Confidence: 0.811860081333333

00:05:07.240 --> 00:05:09.850 durin's talk about the determinants
NOTE Confidence: 0.811860081333333
00:05:09.850 --> 00:05:10.894 of adherence.
NOTE Confidence: 0.811860081333333
00:05:10.900 --> 00:05:12.550 Do a technology assessment and why
NOTE Confidence: 0.811860081333333
00:05:12.550 --> 00:05:14.301 we should be very familiar with
NOTE Confidence: 0.811860081333333
00:05:14.301 --> 00:05:16.394 technology and how that plays a role.
NOTE Confidence: 0.811860081333333
00:05:16.400 --> 00:05:18.716 And again, talk about healthcare delivery,
NOTE Confidence: 0.811860081333333
00:05:18.720 --> 00:05:20.870 how the implementation and delivery
NOTE Confidence: 0.811860081333333
00:05:20.870 --> 00:05:23.041 of healthcare can actually affect
NOTE Confidence: 0.811860081333333
00:05:23.041 --> 00:05:25.226 outcomes which are relevant to
NOTE Confidence: 0.811860081333333
00:05:25.226 --> 00:05:27.464 see Pepper Durance and downstream
NOTE Confidence: 0.811860081333333
00:05:27.464 --> 00:05:30.044 consequences as well as talk a
NOTE Confidence: 0.811860081333333
00:05:30.044 --> 00:05:32.410 little bit about future research.
NOTE Confidence: 0.811860081333333
00:05:32.410 --> 00:05:33.662 So you know what?
NOTE Confidence: 0.811860081333333
00:05:33.662 --> 00:05:35.540 What is the state of affairs?
NOTE Confidence: 0.811860081333333
00:05:35.540 --> 00:05:36.112 I mean,
NOTE Confidence: 0.811860081333333
00:05:36.112 --> 00:05:38.114 it's cheaper and it's really an issue,

NOTE Confidence: 0.811860081333333

00:05:38.120 --> 00:05:41.347 so this slide sort of gives you

NOTE Confidence: 0.811860081333333

00:05:41.347 --> 00:05:42.730 a geographic representation.

NOTE Confidence: 0.811860081333333

00:05:42.730 --> 00:05:44.394 This is essentially Geo.

NOTE Confidence: 0.811860081333333

00:05:44.394 --> 00:05:47.246 Linked data of over 170,000 people

NOTE Confidence: 0.811860081333333

00:05:47.246 --> 00:05:51.123 were part of a vendors database where

NOTE Confidence: 0.811860081333333

00:05:51.123 --> 00:05:53.627 you know the the C PAP Adrian stated

NOTE Confidence: 0.811860081333333

00:05:53.627 --> 00:05:56.005 goes and then we look at that data.

NOTE Confidence: 0.811860081333333

00:05:56.010 --> 00:05:57.545 The red dots are people

NOTE Confidence: 0.811860081333333

00:05:57.545 --> 00:05:59.080 are non adhering by CMS

NOTE Confidence: 0.788979722105263

00:05:59.148 --> 00:06:02.082 criteria and the blue dots are those who are.

NOTE Confidence: 0.788979722105263

00:06:02.090 --> 00:06:04.250 Adherent by Seamus Katrina, and as you know,

NOTE Confidence: 0.788979722105263

00:06:04.250 --> 00:06:05.214 this seems pretty resigned.

NOTE Confidence: 0.788979722105263

00:06:05.214 --> 00:06:06.660 A little bar or lower bar

NOTE Confidence: 0.788979722105263

00:06:06.715 --> 00:06:07.810 than what we would want.

NOTE Confidence: 0.788979722105263

00:06:07.810 --> 00:06:08.802 Which is, you know,

NOTE Confidence: 0.788979722105263

00:06:08.802 --> 00:06:10.576 greater than four hours of use and
NOTE Confidence: 0.788979722105263

00:06:10.576 --> 00:06:12.207 five nights a week rather than all
NOTE Confidence: 0.788979722105263

00:06:12.207 --> 00:06:13.916 nights a week or greater number of
NOTE Confidence: 0.788979722105263

00:06:13.916 --> 00:06:15.910 duration of views on a nightly basis.
NOTE Confidence: 0.788979722105263

00:06:15.910 --> 00:06:17.910 And in this particular study,
NOTE Confidence: 0.788979722105263

00:06:17.910 --> 00:06:20.262 we found that 53% of people in the
NOTE Confidence: 0.788979722105263

00:06:20.262 --> 00:06:22.144 real world by informatics study
NOTE Confidence: 0.788979722105263

00:06:22.144 --> 00:06:24.586 were non adherence to CPAP therapy.
NOTE Confidence: 0.788979722105263

00:06:24.590 --> 00:06:27.495 There are other data in this area
NOTE Confidence: 0.788979722105263

00:06:27.500 --> 00:06:29.135 to actually which are looking
NOTE Confidence: 0.788979722105263

00:06:29.135 --> 00:06:31.440 at a large big data research.
NOTE Confidence: 0.788979722105263

00:06:31.440 --> 00:06:32.730 It showed that.
NOTE Confidence: 0.788979722105263

00:06:32.730 --> 00:06:35.740 Adherence is probably closer up to 70%.
NOTE Confidence: 0.788979722105263

00:06:35.740 --> 00:06:38.796 One of the concerns we have with that
NOTE Confidence: 0.788979722105263

00:06:38.796 --> 00:06:40.876 methodology is is that it removed
NOTE Confidence: 0.788979722105263

00:06:40.876 --> 00:06:42.900 patients from the denominator.

NOTE Confidence: 0.788979722105263
00:06:42.900 --> 00:06:45.780 If they had zero adherence.
NOTE Confidence: 0.788979722105263
00:06:45.780 --> 00:06:46.638 In other words,
NOTE Confidence: 0.788979722105263
00:06:46.638 --> 00:06:48.640 if they see PAP machine registered zero,
NOTE Confidence: 0.788979722105263
00:06:48.640 --> 00:06:50.460 they did not count them in the
NOTE Confidence: 0.788979722105263
00:06:50.460 --> 00:06:51.575 denominator and therefore they
NOTE Confidence: 0.788979722105263
00:06:51.575 --> 00:06:53.273 didn't get counted in the denominator
NOTE Confidence: 0.788979722105263
00:06:53.273 --> 00:06:54.122 nor the numerator,
NOTE Confidence: 0.788979722105263
00:06:54.130 --> 00:06:55.885 and that may artificially increase
NOTE Confidence: 0.788979722105263
00:06:55.885 --> 00:06:58.210 the proportion of people or ignorant.
NOTE Confidence: 0.788979722105263
00:06:58.210 --> 00:06:58.867 I still think,
NOTE Confidence: 0.788979722105263
00:06:58.867 --> 00:07:00.400 and I've been asked a lot of
NOTE Confidence: 0.788979722105263
00:07:00.453 --> 00:07:01.877 questions about this number,
NOTE Confidence: 0.788979722105263
00:07:01.880 --> 00:07:03.368 but I still think.
NOTE Confidence: 0.788979722105263
00:07:03.368 --> 00:07:06.090 As long as you are methodologically sound,
NOTE Confidence: 0.788979722105263
00:07:06.090 --> 00:07:08.407 if you take all comers and then
NOTE Confidence: 0.788979722105263

00:07:08.407 --> 00:07:10.489 from an intention to treat aspect
NOTE Confidence: 0.788979722105263

00:07:10.490 --> 00:07:12.062 we have patients in clinic who
NOTE Confidence: 0.788979722105263

00:07:12.062 --> 00:07:13.420 have never used their CPAP,
NOTE Confidence: 0.788979722105263

00:07:13.420 --> 00:07:14.464 where they register zero.
NOTE Confidence: 0.788979722105263

00:07:14.464 --> 00:07:16.030 So those people were given a
NOTE Confidence: 0.788979722105263

00:07:16.087 --> 00:07:17.587 machine and they didn't use it,
NOTE Confidence: 0.788979722105263

00:07:17.590 --> 00:07:19.711 so they are non adherence regard and
NOTE Confidence: 0.788979722105263

00:07:19.711 --> 00:07:21.678 not you can't just take the people
NOTE Confidence: 0.788979722105263

00:07:21.678 --> 00:07:24.246 who use it for a few minutes for them
NOTE Confidence: 0.788979722105263

00:07:24.246 --> 00:07:26.268 to be counted in the denominator.
NOTE Confidence: 0.788979722105263

00:07:26.270 --> 00:07:27.506 And so when you look at,
NOTE Confidence: 0.788979722105263

00:07:27.510 --> 00:07:29.274 you know a healthcare policy, you know.
NOTE Confidence: 0.788979722105263

00:07:29.274 --> 00:07:30.162 And there's the national
NOTE Confidence: 0.788979722105263

00:07:30.162 --> 00:07:30.606 carrier determination,
NOTE Confidence: 0.788979722105263

00:07:30.610 --> 00:07:31.900 local carrier determination.
NOTE Confidence: 0.788979722105263

00:07:31.900 --> 00:07:34.910 And these are the number of beneficiaries.

NOTE Confidence: 0.788979722105263
00:07:34.910 --> 00:07:36.218 And the problem is,
NOTE Confidence: 0.788979722105263
00:07:36.218 --> 00:07:38.622 a lot of these policies are odds
NOTE Confidence: 0.788979722105263
00:07:38.622 --> 00:07:39.720 with each other.
NOTE Confidence: 0.788979722105263
00:07:39.720 --> 00:07:41.160 But the majority of the courage
NOTE Confidence: 0.788979722105263
00:07:41.160 --> 00:07:42.470 of determinate at local levels.
NOTE Confidence: 0.788979722105263
00:07:42.470 --> 00:07:44.248 So what is true in Arizona may
NOTE Confidence: 0.788979722105263
00:07:44.248 --> 00:07:46.524 not be true in your neck of the
NOTE Confidence: 0.788979722105263
00:07:46.524 --> 00:07:48.708 woods and vice versa because they
NOTE Confidence: 0.788979722105263
00:07:48.708 --> 00:07:50.040 operationalized differently,
NOTE Confidence: 0.788979722105263
00:07:50.040 --> 00:07:51.732 which creates geographic variation
NOTE Confidence: 0.788979722105263
00:07:51.732 --> 00:07:53.424 in health care delivery,
NOTE Confidence: 0.788979722105263
00:07:53.430 --> 00:07:55.859 which in of itself is a problem
NOTE Confidence: 0.788979722105263
00:07:55.859 --> 00:07:56.900 because it creates.
NOTE Confidence: 0.788979722105263
00:07:56.900 --> 00:08:00.190 Health disparities and as you all know,
NOTE Confidence: 0.788979722105263
00:08:00.190 --> 00:08:02.278 there is this 90 day rule or 12
NOTE Confidence: 0.788979722105263

00:08:02.278 --> 00:08:04.138 week rule or three month rule.
NOTE Confidence: 0.788979722105263

00:08:04.140 --> 00:08:05.710 How you wanna call it?
NOTE Confidence: 0.788979722105263

00:08:05.710 --> 00:08:08.838 But I guess 90 day rule is the
NOTE Confidence: 0.788979722105263

00:08:08.838 --> 00:08:10.692 common terminology and and and
NOTE Confidence: 0.788979722105263

00:08:10.692 --> 00:08:13.324 and the problem with this is that
NOTE Confidence: 0.788979722105263

00:08:13.330 --> 00:08:15.808 even though at that time when this
NOTE Confidence: 0.788979722105263

00:08:15.808 --> 00:08:18.016 then CD came out they expanded
NOTE Confidence: 0.788979722105263

00:08:18.016 --> 00:08:20.106 coverage to include home sleep
NOTE Confidence: 0.788979722105263

00:08:20.106 --> 00:08:23.075 studies and remove their two hour
NOTE Confidence: 0.788979722105263

00:08:23.075 --> 00:08:25.620 rule for the diagnostic aspect.
NOTE Confidence: 0.788979722105263

00:08:25.620 --> 00:08:27.500 Still stood by the fact that you cannot
NOTE Confidence: 0.788979722105263

00:08:27.500 --> 00:08:29.049 complete diagnose someone with sleep apnea.
NOTE Confidence: 0.788979722105263

00:08:29.050 --> 00:08:30.275 You do need to do this study,
NOTE Confidence: 0.788979722105263

00:08:30.280 --> 00:08:32.200 which we agree with.
NOTE Confidence: 0.788979722105263

00:08:32.200 --> 00:08:32.680 However,
NOTE Confidence: 0.788979722105263

00:08:32.680 --> 00:08:34.598 the 90 day coverage is is that

NOTE Confidence: 0.788979722105263

00:08:34.598 --> 00:08:35.760 as you are now,

NOTE Confidence: 0.788979722105263

00:08:35.760 --> 00:08:38.104 people don't are not here in my semen

NOTE Confidence: 0.788979722105263

00:08:38.104 --> 00:08:39.659 standards the machine benefits or

NOTE Confidence: 0.788979722105263

00:08:39.659 --> 00:08:41.787 loss of the CPI benefits loss and

NOTE Confidence: 0.794866023333333

00:08:41.849 --> 00:08:43.397 people start getting bills,

NOTE Confidence: 0.794866023333333

00:08:43.400 --> 00:08:45.780 even if they're part of a Medicaid

NOTE Confidence: 0.794866023333333

00:08:45.780 --> 00:08:47.701 program which causes health

NOTE Confidence: 0.794866023333333

00:08:47.701 --> 00:08:49.809 disparities or accentuates health

NOTE Confidence: 0.794866023333333

00:08:49.809 --> 00:08:52.260 disparities in this population.

NOTE Confidence: 0.794866023333333

00:08:52.260 --> 00:08:55.934 And of course they did say courage is it

NOTE Confidence: 0.794866023333333

00:08:55.934 --> 00:08:58.358 is allowed if the centers accredited.

NOTE Confidence: 0.794866023333333

00:08:58.360 --> 00:09:00.904 And the physician and or the

NOTE Confidence: 0.794866023333333

00:09:00.904 --> 00:09:02.176 physician are certified,

NOTE Confidence: 0.794866023333333

00:09:02.180 --> 00:09:05.344 and so I've been alluding to this

NOTE Confidence: 0.794866023333333

00:09:05.344 --> 00:09:07.326 health disparity aspect and then

NOTE Confidence: 0.794866023333333

00:09:07.326 --> 00:09:09.204 why it's important to sleep field
NOTE Confidence: 0.7948660233333333

00:09:09.204 --> 00:09:11.188 is we've been facing a lot of.
NOTE Confidence: 0.8225089322222222

00:09:13.640 --> 00:09:16.325 Headband lately with the Phillips
NOTE Confidence: 0.8225089322222222

00:09:16.325 --> 00:09:19.074 device recall and previously, you know,
NOTE Confidence: 0.8225089322222222

00:09:19.074 --> 00:09:21.450 meta analysis in JAMA as well as a
NOTE Confidence: 0.8225089322222222

00:09:21.517 --> 00:09:23.877 couple of large multicenter trials,
NOTE Confidence: 0.8225089322222222

00:09:23.880 --> 00:09:26.556 multi continent trials that were negative
NOTE Confidence: 0.8225089322222222

00:09:26.560 --> 00:09:28.737 and we will be talking about that.
NOTE Confidence: 0.8225089322222222

00:09:28.740 --> 00:09:31.658 But one of the movements is, as you know,
NOTE Confidence: 0.8225089322222222

00:09:31.658 --> 00:09:33.614 in health care policy making is
NOTE Confidence: 0.8225089322222222

00:09:33.614 --> 00:09:35.867 good with value based purchasing,
NOTE Confidence: 0.8225089322222222

00:09:35.870 --> 00:09:37.568 but one of the problems with
NOTE Confidence: 0.8225089322222222

00:09:37.568 --> 00:09:38.417 value based purchasing.
NOTE Confidence: 0.8225089322222222

00:09:38.420 --> 00:09:39.716 So what is value based purchasing?
NOTE Confidence: 0.8225089322222222

00:09:39.720 --> 00:09:42.808 So let's say if you're in the ICU.
NOTE Confidence: 0.8225089322222222

00:09:42.810 --> 00:09:44.245 If you have a higher clabsi rate,

NOTE Confidence: 0.822508932222222

00:09:44.250 --> 00:09:45.123 you'll get dinged.

NOTE Confidence: 0.822508932222222

00:09:45.123 --> 00:09:47.160 You know if you have higher hospital

NOTE Confidence: 0.822508932222222

00:09:47.220 --> 00:09:48.785 read re admissions of patients

NOTE Confidence: 0.822508932222222

00:09:48.785 --> 00:09:50.350 with COPD and heart failure,

NOTE Confidence: 0.822508932222222

00:09:50.350 --> 00:09:53.190 you get dinged and you end up in a penalty

NOTE Confidence: 0.822508932222222

00:09:53.266 --> 00:09:56.870 box where they deduct you know .5% or 1%,

NOTE Confidence: 0.822508932222222

00:09:56.870 --> 00:09:59.498 or 1.5% if you are in the lowest quartile

NOTE Confidence: 0.822508932222222

00:09:59.498 --> 00:10:01.989 of that performance characteristic.

NOTE Confidence: 0.822508932222222

00:10:01.990 --> 00:10:03.995 But we know there's something

NOTE Confidence: 0.822508932222222

00:10:03.995 --> 00:10:05.198 called addition next,

NOTE Confidence: 0.822508932222222

00:10:05.200 --> 00:10:07.360 which is the disproportionate share

NOTE Confidence: 0.822508932222222

00:10:07.360 --> 00:10:09.088 of health disparity populations.

NOTE Confidence: 0.822508932222222

00:10:09.090 --> 00:10:11.658 So if your hospitals in New Haven is

NOTE Confidence: 0.822508932222222

00:10:11.658 --> 00:10:14.002 taking care of people more people who

NOTE Confidence: 0.822508932222222

00:10:14.002 --> 00:10:16.780 are in the lower social economic strata,

NOTE Confidence: 0.822508932222222

00:10:16.780 --> 00:10:19.048 you're going to have worse outcomes
NOTE Confidence: 0.8225089322222222

00:10:19.048 --> 00:10:22.117 because there may be access to care issues.
NOTE Confidence: 0.8225089322222222

00:10:22.120 --> 00:10:24.168 There may be ability to inability to pay
NOTE Confidence: 0.8225089322222222

00:10:24.168 --> 00:10:26.697 out of pocket expenses and get medications,
NOTE Confidence: 0.8225089322222222

00:10:26.700 --> 00:10:29.157 or there may be health literacy issues.
NOTE Confidence: 0.8225089322222222

00:10:29.160 --> 00:10:31.146 And what will happen is these
NOTE Confidence: 0.8225089322222222

00:10:31.146 --> 00:10:32.470 hospitals and these providers
NOTE Confidence: 0.8225089322222222

00:10:32.531 --> 00:10:34.156 will get penalized even more,
NOTE Confidence: 0.8225089322222222

00:10:34.160 --> 00:10:36.095 which means that those providers
NOTE Confidence: 0.8225089322222222

00:10:36.095 --> 00:10:38.030 may migrate to more affluent
NOTE Confidence: 0.8225089322222222

00:10:38.096 --> 00:10:39.996 territory areas and zip codes,
NOTE Confidence: 0.8225089322222222

00:10:40.000 --> 00:10:42.080 in which case the health disparity in the
NOTE Confidence: 0.8225089322222222

00:10:42.080 --> 00:10:43.960 lower social economic stratum ZIP codes.
NOTE Confidence: 0.8225089322222222

00:10:43.960 --> 00:10:48.786 Will be actually worsened and and
NOTE Confidence: 0.8225089322222222

00:10:48.786 --> 00:10:51.628 so this was actually a very telling
NOTE Confidence: 0.8225089322222222

00:10:51.628 --> 00:10:54.131 article that talked about how you

NOTE Confidence: 0.822508932222222

00:10:54.131 --> 00:10:57.980 cannot tie metrics to UM reimbursement.

NOTE Confidence: 0.822508932222222

00:10:57.980 --> 00:11:01.780 Because if you did that,

NOTE Confidence: 0.822508932222222

00:11:01.780 --> 00:11:04.420 you can actually worsen health disparities.

NOTE Confidence: 0.822508932222222

00:11:04.420 --> 00:11:06.496 It may be an unintended consequence

NOTE Confidence: 0.822508932222222

00:11:06.496 --> 00:11:07.880 and that actually changed.

NOTE Confidence: 0.822508932222222

00:11:07.880 --> 00:11:08.660 For once,

NOTE Confidence: 0.822508932222222

00:11:08.660 --> 00:11:10.610 Medicare health policy and actually

NOTE Confidence: 0.822508932222222

00:11:10.610 --> 00:11:12.430 not using CPAP audience,

NOTE Confidence: 0.822508932222222

00:11:12.430 --> 00:11:15.160 for example as a valley based metric.

NOTE Confidence: 0.822508932222222

00:11:15.160 --> 00:11:16.990 Uhm for Valley based purchasing,

NOTE Confidence: 0.822508932222222

00:11:16.990 --> 00:11:18.490 so that's actually a good thing,

NOTE Confidence: 0.822508932222222

00:11:18.490 --> 00:11:21.034 so anyone who advocates for CPAP

NOTE Confidence: 0.822508932222222

00:11:21.034 --> 00:11:23.130 durans for value based care you

NOTE Confidence: 0.822508932222222

00:11:23.130 --> 00:11:25.242 have to be careful because you're

NOTE Confidence: 0.822508932222222

00:11:25.242 --> 00:11:27.486 going down a slippery slope fast,

NOTE Confidence: 0.822508932222222

00:11:27.490 --> 00:11:29.314 slippery, slope of accentuating
NOTE Confidence: 0.822508932222222

00:11:29.314 --> 00:11:31.594 health disparities for the poor.
NOTE Confidence: 0.822508932222222

00:11:31.600 --> 00:11:33.944 So we we had done a survey before.
NOTE Confidence: 0.822508932222222

00:11:33.950 --> 00:11:34.838 You know,
NOTE Confidence: 0.822508932222222

00:11:34.838 --> 00:11:37.579 looking at some of those provider
NOTE Confidence: 0.822508932222222

00:11:37.579 --> 00:11:40.174 based variables which turned 30
NOTE Confidence: 0.822508932222222

00:11:40.174 --> 00:11:43.516 patients where we took hard outcome
NOTE Confidence: 0.822508932222222

00:11:43.516 --> 00:11:45.876 of discontinuation of therapy.
NOTE Confidence: 0.822508932222222

00:11:45.880 --> 00:11:46.274 You know,
NOTE Confidence: 0.822508932222222

00:11:46.274 --> 00:11:47.850 we can always quibble about what is a
NOTE Confidence: 0.822508932222222

00:11:47.896 --> 00:11:49.450 meaningful difference in C PAP urine.
NOTE Confidence: 0.822508932222222

00:11:49.450 --> 00:11:51.942 Is it 30 minutes which is derived
NOTE Confidence: 0.822508932222222

00:11:51.942 --> 00:11:54.233 through consensus and propagated by the
NOTE Confidence: 0.822508932222222

00:11:54.233 --> 00:11:55.798 American Academy of Sleep Medicine?
NOTE Confidence: 0.822508932222222

00:11:55.800 --> 00:11:57.200 Or is it something bigger?
NOTE Confidence: 0.822508932222222

00:11:57.200 --> 00:11:59.020 So in this particular study,

NOTE Confidence: 0.822508932222222

00:11:59.020 --> 00:12:00.445 we just went with discontinuation

NOTE Confidence: 0.822508932222222

00:12:00.445 --> 00:12:02.245 of therapy because that's a pretty

NOTE Confidence: 0.822508932222222

00:12:02.245 --> 00:12:03.244 hard endpoint, right?

NOTE Confidence: 0.822508932222222

00:12:03.244 --> 00:12:05.996 I mean, if someone stops using pet therapy,

NOTE Confidence: 0.822508932222222

00:12:06.000 --> 00:12:07.776 you can say, oh, that's a meaningful change.

NOTE Confidence: 0.822508932222222

00:12:07.780 --> 00:12:09.716 It's either using it or not using it.

NOTE Confidence: 0.822508932222222

00:12:09.720 --> 00:12:12.048 It's not about 20 minutes or 30 minutes

NOTE Confidence: 0.822508932222222

00:12:12.048 --> 00:12:14.330 or extra hour or so on and so forth,

NOTE Confidence: 0.822508932222222

00:12:14.330 --> 00:12:15.738 and we use validated.

NOTE Confidence: 0.822508932222222

00:12:15.738 --> 00:12:17.850 Questionnaires to look at these variables

NOTE Confidence: 0.801953533333333

00:12:17.910 --> 00:12:19.980 of patient education risk perception,

NOTE Confidence: 0.801953533333333

00:12:19.980 --> 00:12:22.650 and that also confounders as well

NOTE Confidence: 0.801953533333333

00:12:22.650 --> 00:12:24.370 as patient satisfaction because

NOTE Confidence: 0.801953533333333

00:12:24.370 --> 00:12:26.270 that ties into healthcare delivery.

NOTE Confidence: 0.801953533333333

00:12:26.270 --> 00:12:28.678 And we found that centers that were

NOTE Confidence: 0.801953533333333

00:12:28.678 --> 00:12:30.918 accredited or physicians that were certified.

NOTE Confidence: 0.8019535333333333

00:12:30.920 --> 00:12:33.167 If both of them are the case,

NOTE Confidence: 0.8019535333333333

00:12:33.170 --> 00:12:36.096 there was actually a lower proportion of

NOTE Confidence: 0.8019535333333333

00:12:36.096 --> 00:12:38.767 people had stopped using CPAP like 5%.

NOTE Confidence: 0.8019535333333333

00:12:38.770 --> 00:12:41.270 If one of them.

NOTE Confidence: 0.8019535333333333

00:12:41.270 --> 00:12:43.826 Where certified or accredited it's 7%,

NOTE Confidence: 0.8019535333333333

00:12:43.830 --> 00:12:47.089 but if neither of them were certified in

NOTE Confidence: 0.8019535333333333

00:12:47.089 --> 00:12:49.704 ways of accreditation or certification,

NOTE Confidence: 0.8019535333333333

00:12:49.710 --> 00:12:51.878 you can see that the proportion of people

NOTE Confidence: 0.8019535333333333

00:12:51.878 --> 00:12:53.968 who stopped using it is to actually 21%.

NOTE Confidence: 0.8019535333333333

00:12:53.968 --> 00:12:55.816 So it's almost like a dose

NOTE Confidence: 0.8019535333333333

00:12:55.816 --> 00:12:57.140 effect that you know.

NOTE Confidence: 0.8019535333333333

00:12:57.140 --> 00:12:59.618 If you have care delivery given by

NOTE Confidence: 0.8019535333333333

00:12:59.618 --> 00:13:01.740 people or certified and accredited,

NOTE Confidence: 0.8019535333333333

00:13:01.740 --> 00:13:05.555 your risk of CPAP discontinuation is lower,

NOTE Confidence: 0.8019535333333333

00:13:05.560 --> 00:13:07.684 so there's a nice dose effect

NOTE Confidence: 0.8019535333333333
00:13:07.684 --> 00:13:09.100 between both being satisfied,
NOTE Confidence: 0.8019535333333333
00:13:09.100 --> 00:13:10.780 being having the least amount
NOTE Confidence: 0.8019535333333333
00:13:10.780 --> 00:13:11.788 of discontinuation rates.
NOTE Confidence: 0.8019535333333333
00:13:11.790 --> 00:13:15.003 Uh, with none having the highest amount
NOTE Confidence: 0.8019535333333333
00:13:15.003 --> 00:13:17.618 of discontinuation rate as a proportion.
NOTE Confidence: 0.8019535333333333
00:13:17.620 --> 00:13:19.776 And one of the important you know
NOTE Confidence: 0.8019535333333333
00:13:19.776 --> 00:13:21.871 aspects here is when we dive deeper
NOTE Confidence: 0.8019535333333333
00:13:21.871 --> 00:13:24.555 and I'll go into sort of the multiple
NOTE Confidence: 0.8019535333333333
00:13:24.555 --> 00:13:27.313 logistic regression model is is that
NOTE Confidence: 0.8019535333333333
00:13:27.313 --> 00:13:29.518 you know the accreditation status
NOTE Confidence: 0.8019535333333333
00:13:29.518 --> 00:13:31.800 was associated with the grade or
NOTE Confidence: 0.8019535333333333
00:13:31.800 --> 00:13:34.135 odds or odds ratio of over 1.86
NOTE Confidence: 0.8019535333333333
00:13:34.135 --> 00:13:35.200 of people discontinuing.
NOTE Confidence: 0.8019535333333333
00:13:35.200 --> 00:13:38.197 And I just want to show you in
NOTE Confidence: 0.8019535333333333
00:13:38.197 --> 00:13:40.177 step two there's nasal congestion
NOTE Confidence: 0.8019535333333333

00:13:40.177 --> 00:13:42.439 and medication for this condition,
NOTE Confidence: 0.8019535333333333

00:13:42.440 --> 00:13:44.984 which correspondingly either worsened
NOTE Confidence: 0.8019535333333333

00:13:44.984 --> 00:13:47.528 the discontinuation of therapy.
NOTE Confidence: 0.8019535333333333

00:13:47.530 --> 00:13:50.970 Are introduced the discontinuation
NOTE Confidence: 0.8019535333333333

00:13:50.970 --> 00:13:52.690 of therapy,
NOTE Confidence: 0.8019535333333333

00:13:52.690 --> 00:13:56.265 as evidenced by odds ratio of 1.57 and .28,
NOTE Confidence: 0.8019535333333333

00:13:56.265 --> 00:13:58.240 suggesting that the nasal congestion
NOTE Confidence: 0.8019535333333333

00:13:58.240 --> 00:14:00.527 factors or treatment for that is,
NOTE Confidence: 0.8019535333333333

00:14:00.530 --> 00:14:01.026 uh,
NOTE Confidence: 0.8019535333333333

00:14:01.026 --> 00:14:03.010 you know important determinant
NOTE Confidence: 0.8019535333333333

00:14:03.010 --> 00:14:05.150 of Adrian's to see PAP therapy.
NOTE Confidence: 0.8019535333333333

00:14:05.150 --> 00:14:08.550 So I'm going to skip this next slide
NOTE Confidence: 0.8019535333333333

00:14:08.550 --> 00:14:11.948 to share that you know there's this
NOTE Confidence: 0.8019535333333333

00:14:11.948 --> 00:14:13.516 outcome about satisfaction with
NOTE Confidence: 0.8019535333333333

00:14:13.516 --> 00:14:15.168 physicians satisfaction with the center.
NOTE Confidence: 0.8019535333333333

00:14:15.170 --> 00:14:18.850 It seems like a soft non biomedical outcome,

NOTE Confidence: 0.8019535333333333
00:14:18.850 --> 00:14:19.386 but.
NOTE Confidence: 0.8019535333333333
00:14:19.386 --> 00:14:19.922 Actually,
NOTE Confidence: 0.8019535333333333
00:14:19.922 --> 00:14:23.674 value based care tomorrow is not going
NOTE Confidence: 0.8019535333333333
00:14:23.674 --> 00:14:26.173 to go towards hopefully Tootsie Pop
NOTE Confidence: 0.8019535333333333
00:14:26.173 --> 00:14:28.879 at your end because there would be a problem,
NOTE Confidence: 0.8019535333333333
00:14:28.880 --> 00:14:32.320 but patient satisfaction is going to be a
NOTE Confidence: 0.8019535333333333
00:14:32.320 --> 00:14:35.486 major driver in how valid is care morphs.
NOTE Confidence: 0.8019535333333333
00:14:35.490 --> 00:14:36.393 In the future.
NOTE Confidence: 0.8019535333333333
00:14:36.393 --> 00:14:37.597 It's not the volume,
NOTE Confidence: 0.8019535333333333
00:14:37.600 --> 00:14:39.336 but it's the quality of care and one
NOTE Confidence: 0.8019535333333333
00:14:39.336 --> 00:14:41.400 of the quality indicators you know.
NOTE Confidence: 0.8019535333333333
00:14:41.400 --> 00:14:41.730 Besides,
NOTE Confidence: 0.8019535333333333
00:14:41.730 --> 00:14:43.380 some of these other endpoints
NOTE Confidence: 0.8019535333333333
00:14:43.380 --> 00:14:45.670 that you can suggest are the
NOTE Confidence: 0.8019535333333333
00:14:45.670 --> 00:14:47.234 ultimate client satisfaction rate.
NOTE Confidence: 0.8019535333333333

00:14:47.240 --> 00:14:49.430 And just like if you were to go buy a car,
NOTE Confidence: 0.8019535333333333

00:14:49.430 --> 00:14:50.230 you know.
NOTE Confidence: 0.8019535333333333

00:14:50.230 --> 00:14:52.230 The customer satisfaction is key,
NOTE Confidence: 0.8019535333333333

00:14:52.230 --> 00:14:53.655 and similarly your patient satisfaction
NOTE Confidence: 0.8019535333333333

00:14:53.655 --> 00:14:56.035 is going to be key and it's going to
NOTE Confidence: 0.8019535333333333

00:14:56.035 --> 00:14:58.130 become a major driver in all of healthcare.
NOTE Confidence: 0.8019535333333333

00:14:58.130 --> 00:15:00.314 That's why I wanted to point that
NOTE Confidence: 0.8019535333333333

00:15:00.314 --> 00:15:02.431 out and few variables here that
NOTE Confidence: 0.8019535333333333

00:15:02.431 --> 00:15:05.007 came out was that the time delay,
NOTE Confidence: 0.8019535333333333

00:15:05.010 --> 00:15:07.558 the greater the time delay that lower
NOTE Confidence: 0.8019535333333333

00:15:07.558 --> 00:15:10.180 the satisfaction and so access to care
NOTE Confidence: 0.8019535333333333

00:15:10.180 --> 00:15:12.929 is an issue and discontinuation of therapy.
NOTE Confidence: 0.8019535333333333

00:15:12.930 --> 00:15:15.486 So this is outcomes based satisfaction
NOTE Confidence: 0.8019535333333333

00:15:15.490 --> 00:15:17.156 sometimes you may do the best job
NOTE Confidence: 0.8019535333333333

00:15:17.156 --> 00:15:18.748 and taking care of your patients,
NOTE Confidence: 0.8019535333333333

00:15:18.750 --> 00:15:20.710 but at the end result.

NOTE Confidence: 0.8019535333333333

00:15:20.710 --> 00:15:22.168 If the outcome is not good,

NOTE Confidence: 0.8019535333333333

00:15:22.170 --> 00:15:23.874 it's an undesirable outcome.

NOTE Confidence: 0.8019535333333333

00:15:23.874 --> 00:15:26.430 The patients are going to say

NOTE Confidence: 0.8019535333333333

00:15:26.506 --> 00:15:28.490 that they are dissatisfied.

NOTE Confidence: 0.8019535333333333

00:15:28.490 --> 00:15:31.178 So I talked about the nasal

NOTE Confidence: 0.8019535333333333

00:15:31.178 --> 00:15:32.522 congestion factor already

NOTE Confidence: 0.912986640769231

00:15:32.530 --> 00:15:35.176 and I think we tried to subscribe

NOTE Confidence: 0.912986640769231

00:15:35.176 --> 00:15:37.449 for towards this in our center.

NOTE Confidence: 0.912986640769231

00:15:37.450 --> 00:15:40.162 It just sort of came out of this

NOTE Confidence: 0.912986640769231

00:15:40.162 --> 00:15:42.165 health professions education for the

NOTE Confidence: 0.912986640769231

00:15:42.165 --> 00:15:44.427 national academies back in 2003,

NOTE Confidence: 0.912986640769231

00:15:44.427 --> 00:15:47.949 which is delivering patient centered care.

NOTE Confidence: 0.912986640769231

00:15:47.950 --> 00:15:49.708 And I just put you know,

NOTE Confidence: 0.912986640769231

00:15:49.710 --> 00:15:52.527 two domain areas such as how do you surveil

NOTE Confidence: 0.912986640769231

00:15:52.527 --> 00:15:55.110 for the surveillance for sleep apnea?

NOTE Confidence: 0.912986640769231

00:15:55.110 --> 00:15:57.470 And how do you promote CPAP adherence?
NOTE Confidence: 0.912986640769231

00:15:57.470 --> 00:15:59.510 But you need 5.
NOTE Confidence: 0.912986640769231

00:15:59.510 --> 00:16:01.393 Areas where a center needs and you
NOTE Confidence: 0.912986640769231

00:16:01.393 --> 00:16:03.452 know the staff need to have core
NOTE Confidence: 0.912986640769231

00:16:03.452 --> 00:16:05.234 competencies and which is being able
NOTE Confidence: 0.912986640769231

00:16:05.293 --> 00:16:07.108 to provide patient centered care,
NOTE Confidence: 0.912986640769231

00:16:07.110 --> 00:16:09.158 have an interdisciplinary team.
NOTE Confidence: 0.912986640769231

00:16:09.158 --> 00:16:11.790 Practice evidence based medicine and
NOTE Confidence: 0.912986640769231

00:16:11.790 --> 00:16:14.452 focus on quality improvements and
NOTE Confidence: 0.912986640769231

00:16:14.452 --> 00:16:16.504 have a huge amount of informatics.
NOTE Confidence: 0.912986640769231

00:16:16.510 --> 00:16:17.686 And of course during the pandemic.
NOTE Confidence: 0.912986640769231

00:16:17.690 --> 00:16:19.170 Times were big on informatics.
NOTE Confidence: 0.912986640769231

00:16:19.170 --> 00:16:20.774 A lot of telemedicine,
NOTE Confidence: 0.912986640769231

00:16:20.774 --> 00:16:22.684 telehealth happening in from a
NOTE Confidence: 0.912986640769231

00:16:22.684 --> 00:16:23.788 quality improvement standpoint.
NOTE Confidence: 0.912986640769231

00:16:23.790 --> 00:16:26.382 We actually see metrics of what our CPD runs.

NOTE Confidence: 0.912986640769231

00:16:26.390 --> 00:16:29.630 Dashboard looks like on a on

NOTE Confidence: 0.912986640769231

00:16:29.630 --> 00:16:31.678 a quarterly basis period.

NOTE Confidence: 0.912986640769231

00:16:31.678 --> 00:16:33.390 For example, a variable.

NOTE Confidence: 0.912986640769231

00:16:33.390 --> 00:16:33.994 I mean,

NOTE Confidence: 0.912986640769231

00:16:33.994 --> 00:16:36.108 I'm a measure that we have for

NOTE Confidence: 0.912986640769231

00:16:36.108 --> 00:16:37.858 our center as a metric,

NOTE Confidence: 0.912986640769231

00:16:37.860 --> 00:16:40.086 and of course we try to practice

NOTE Confidence: 0.912986640769231

00:16:40.086 --> 00:16:41.639 as best as we can.

NOTE Confidence: 0.912986640769231

00:16:41.640 --> 00:16:42.624 Evidence based medicine,

NOTE Confidence: 0.912986640769231

00:16:42.624 --> 00:16:44.592 although sometimes the evidence is still

NOTE Confidence: 0.912986640769231

00:16:44.592 --> 00:16:46.932 not available and we truly function

NOTE Confidence: 0.912986640769231

00:16:46.932 --> 00:16:48.081 doesn't transcend interdisciplinary

NOTE Confidence: 0.912986640769231

00:16:48.081 --> 00:16:50.468 team and I'll and I'll talk about

NOTE Confidence: 0.912986640769231

00:16:50.468 --> 00:16:51.948 what I mean by transdisciplinary

NOTE Confidence: 0.912986640769231

00:16:51.948 --> 00:16:53.868 as opposed to interdisciplinary.

NOTE Confidence: 0.912986640769231

00:16:53.870 --> 00:16:55.014 In just a bit.
NOTE Confidence: 0.912986640769231

00:16:55.014 --> 00:16:57.586 And but the key thing in all of
NOTE Confidence: 0.912986640769231

00:16:57.586 --> 00:16:59.526 this is patient centered care.
NOTE Confidence: 0.912986640769231

00:16:59.530 --> 00:17:03.446 And I know that one of the big gorillas in
NOTE Confidence: 0.912986640769231

00:17:03.446 --> 00:17:06.092 the room is this Phillips device recall.
NOTE Confidence: 0.912986640769231

00:17:06.100 --> 00:17:09.670 And this is where we truly are
NOTE Confidence: 0.912986640769231

00:17:09.670 --> 00:17:11.730 practicing patient centered care.
NOTE Confidence: 0.912986640769231

00:17:11.730 --> 00:17:13.530 And I'm going to speak about that and just,
NOTE Confidence: 0.912986640769231

00:17:13.530 --> 00:17:14.284 you know,
NOTE Confidence: 0.912986640769231

00:17:14.284 --> 00:17:15.038 just here,
NOTE Confidence: 0.912986640769231

00:17:15.038 --> 00:17:17.300 verbally and I don't have a
NOTE Confidence: 0.912986640769231

00:17:17.387 --> 00:17:20.020 slide because I I know there's a
NOTE Confidence: 0.912986640769231

00:17:20.020 --> 00:17:21.630 lot of nebulous details there,
NOTE Confidence: 0.912986640769231

00:17:21.630 --> 00:17:23.088 but we take a, you know,
NOTE Confidence: 0.912986640769231

00:17:23.090 --> 00:17:24.480 such variables in their camp,
NOTE Confidence: 0.912986640769231

00:17:24.480 --> 00:17:27.096 you know, as the patient using C PAP.

NOTE Confidence: 0.912986640769231
00:17:27.100 --> 00:17:29.564 Or they have a history of cancer,
NOTE Confidence: 0.912986640769231
00:17:29.570 --> 00:17:32.943 do a derived symptomatic benefit
NOTE Confidence: 0.912986640769231
00:17:32.943 --> 00:17:33.966 from the device,
NOTE Confidence: 0.912986640769231
00:17:33.970 --> 00:17:35.248 and if they had stopped therapy,
NOTE Confidence: 0.912986640769231
00:17:35.250 --> 00:17:37.150 did they become symptomatic?
NOTE Confidence: 0.912986640769231
00:17:37.150 --> 00:17:39.525 How bad are there other
NOTE Confidence: 0.912986640769231
00:17:39.525 --> 00:17:41.737 comorbidities outside of cancer risk?
NOTE Confidence: 0.912986640769231
00:17:41.740 --> 00:17:43.432 As well as whether they see
NOTE Confidence: 0.912986640769231
00:17:43.432 --> 00:17:43.996 particulate material,
NOTE Confidence: 0.912986640769231
00:17:44.000 --> 00:17:48.424 whether they are using ozone cleaner or not,
NOTE Confidence: 0.912986640769231
00:17:48.424 --> 00:17:52.184 and we actually do combined.
NOTE Confidence: 0.912986640769231
00:17:52.190 --> 00:17:53.834 Patient centered medical decision
NOTE Confidence: 0.912986640769231
00:17:53.834 --> 00:17:56.300 making with the patient or the
NOTE Confidence: 0.912986640769231
00:17:56.365 --> 00:17:58.654 caregiver and then we make a decision
NOTE Confidence: 0.912986640769231
00:17:58.654 --> 00:18:01.066 as to whether they choose with us
NOTE Confidence: 0.912986640769231

00:18:01.066 --> 00:18:03.335 with our advise whether they want to
NOTE Confidence: 0.912986640769231

00:18:03.335 --> 00:18:04.910 continue to use the therapy or not.
NOTE Confidence: 0.912986640769231

00:18:04.910 --> 00:18:06.830 Because we really don't have
NOTE Confidence: 0.912986640769231

00:18:06.830 --> 00:18:09.231 signs and evidence to guide some
NOTE Confidence: 0.912986640769231

00:18:09.231 --> 00:18:11.286 of our recommendations to them,
NOTE Confidence: 0.912986640769231

00:18:11.290 --> 00:18:14.018 so I know that question is going to
NOTE Confidence: 0.912986640769231

00:18:14.018 --> 00:18:17.148 come up so we do couch it in that manner.
NOTE Confidence: 0.912986640769231

00:18:17.150 --> 00:18:18.878 We do say that it sort of happened
NOTE Confidence: 0.912986640769231

00:18:18.878 --> 00:18:19.790 and so caution,
NOTE Confidence: 0.912986640769231

00:18:19.790 --> 00:18:22.406 and there's human cancer risk is.
NOTE Confidence: 0.912986640769231

00:18:22.410 --> 00:18:24.694 Improving and the particle
NOTE Confidence: 0.912986640769231

00:18:24.694 --> 00:18:26.978 a material causing problems,
NOTE Confidence: 0.912986640769231

00:18:26.980 --> 00:18:28.796 or at least as being reported in terms
NOTE Confidence: 0.912986640769231

00:18:28.796 --> 00:18:30.327 of particles that can be visualized.
NOTE Confidence: 0.912986640769231

00:18:30.330 --> 00:18:32.280 It's about points or eight person,
NOTE Confidence: 0.912986640769231

00:18:32.280 --> 00:18:35.168 and so we have a discussion and we

NOTE Confidence: 0.912986640769231

00:18:35.168 --> 00:18:37.392 find that 70% of our patients choose

NOTE Confidence: 0.912986640769231

00:18:37.392 --> 00:18:38.857 to continue the therapy device.

NOTE Confidence: 0.894653532

00:18:38.860 --> 00:18:42.451 And of course even in those people we try

NOTE Confidence: 0.894653532

00:18:42.451 --> 00:18:46.018 to get them in alternative new device.

NOTE Confidence: 0.894653532

00:18:46.020 --> 00:18:47.916 If it's more than five years.

NOTE Confidence: 0.894653532

00:18:47.920 --> 00:18:50.847 But even if less than five years as

NOTE Confidence: 0.894653532

00:18:50.847 --> 00:18:52.506 Janet was mentioning, we have had some.

NOTE Confidence: 0.894653532

00:18:52.510 --> 00:18:54.764 Luck getting some device for some people,

NOTE Confidence: 0.894653532

00:18:54.770 --> 00:18:57.210 and some people buy devices out of pocket.

NOTE Confidence: 0.894653532

00:18:57.210 --> 00:18:59.250 And so again, patient centered

NOTE Confidence: 0.894653532

00:18:59.250 --> 00:19:01.290 care in that manner combined.

NOTE Confidence: 0.894653532

00:19:01.290 --> 00:19:04.076 Medical decision making should be are not

NOTE Confidence: 0.894653532

00:19:04.076 --> 00:19:07.187 store and that is what we are practicing.

NOTE Confidence: 0.894653532

00:19:07.190 --> 00:19:09.668 So there is this topic about specialists.

NOTE Confidence: 0.894653532

00:19:09.670 --> 00:19:11.272 You know there are 47 million

NOTE Confidence: 0.894653532

00:19:11.272 --> 00:19:12.340 people with sleep apnea.
NOTE Confidence: 0.894653532

00:19:12.340 --> 00:19:14.426 Can specialist really take care of them?
NOTE Confidence: 0.894653532

00:19:14.430 --> 00:19:16.554 And that's a source of conversation
NOTE Confidence: 0.894653532

00:19:16.554 --> 00:19:19.394 as to how that can actually influence
NOTE Confidence: 0.894653532

00:19:19.394 --> 00:19:22.088 care in patients with sleep apnea,
NOTE Confidence: 0.894653532

00:19:22.090 --> 00:19:24.670 and especially see pepper durance.
NOTE Confidence: 0.894653532

00:19:24.670 --> 00:19:27.197 But this is study one of our
NOTE Confidence: 0.894653532

00:19:27.197 --> 00:19:29.069 fellows did along time ago.
NOTE Confidence: 0.894653532

00:19:29.070 --> 00:19:31.560 I'm showing that non specialists
NOTE Confidence: 0.894653532

00:19:31.560 --> 00:19:34.050 were more likely to give
NOTE Confidence: 0.894653532

00:19:34.142 --> 00:19:36.938 sedative nautic agent to as yet.
NOTE Confidence: 0.894653532

00:19:36.940 --> 00:19:38.800 Undiagnosed patient with obstructive
NOTE Confidence: 0.894653532

00:19:38.800 --> 00:19:40.966 sleep apnea that actually was
NOTE Confidence: 0.894653532

00:19:40.966 --> 00:19:43.026 associated with increased risk for
NOTE Confidence: 0.894653532

00:19:43.026 --> 00:19:45.410 motor vehicle accidents or near misses
NOTE Confidence: 0.894653532

00:19:45.410 --> 00:19:47.654 in those patients who received such

NOTE Confidence: 0.894653532

00:19:47.723 --> 00:19:50.250 non sitting sitting hypnotics where

NOTE Confidence: 0.894653532

00:19:50.250 --> 00:19:53.175 their LabCorp sleep was misconstrued.

NOTE Confidence: 0.894653532

00:19:53.180 --> 00:19:55.511 It's insomnia and instead of looking for

NOTE Confidence: 0.894653532

00:19:55.511 --> 00:19:57.125 sleep apnea, they're prescribed that.

NOTE Confidence: 0.894653532

00:19:57.125 --> 00:19:59.492 Now this is back in 2005 things probably,

NOTE Confidence: 0.894653532

00:19:59.492 --> 00:20:01.860 I mean, are much better now.

NOTE Confidence: 0.894653532

00:20:01.860 --> 00:20:02.320 However,

NOTE Confidence: 0.894653532

00:20:02.320 --> 00:20:04.259 this whole question about who should be

NOTE Confidence: 0.894653532

00:20:04.259 --> 00:20:06.639 taking care of patients with sleep apnea is,

NOTE Confidence: 0.894653532

00:20:06.640 --> 00:20:07.860 you know.

NOTE Confidence: 0.894653532

00:20:07.860 --> 00:20:09.690 Relevant and dumb,

NOTE Confidence: 0.894653532

00:20:09.690 --> 00:20:11.769 and it wasn't any of the other

NOTE Confidence: 0.894653532

00:20:11.769 --> 00:20:13.224 characteristics that made a difference

NOTE Confidence: 0.894653532

00:20:13.224 --> 00:20:15.076 in terms of years since graduation.

NOTE Confidence: 0.894653532

00:20:15.076 --> 00:20:16.524 Their perception about sedative,

NOTE Confidence: 0.894653532

00:20:16.530 --> 00:20:19.500 nautics and risks associated with them,

NOTE Confidence: 0.894653532

00:20:19.500 --> 00:20:21.240 or whether it's sleep was included

NOTE Confidence: 0.894653532

00:20:21.240 --> 00:20:22.887 in their medical school curriculum

NOTE Confidence: 0.894653532

00:20:22.887 --> 00:20:25.072 and whether they are knowledgeable

NOTE Confidence: 0.894653532

00:20:25.072 --> 00:20:25.946 about contraindications.

NOTE Confidence: 0.894653532

00:20:25.950 --> 00:20:27.740 None of them were significant

NOTE Confidence: 0.894653532

00:20:27.740 --> 00:20:29.360 between the groups of patients

NOTE Confidence: 0.894653532

00:20:29.360 --> 00:20:30.560 are either prescribed sedative

NOTE Confidence: 0.894653532

00:20:30.560 --> 00:20:31.910 or not prescribed sedative.

NOTE Confidence: 0.894653532

00:20:31.910 --> 00:20:34.143 And remember these are all people with

NOTE Confidence: 0.894653532

00:20:34.143 --> 00:20:35.430 undiagnosed obstructive sleep apnea.

NOTE Confidence: 0.894653532

00:20:35.430 --> 00:20:37.236 We're getting this additive, you know.

NOTE Confidence: 0.894653532

00:20:37.240 --> 00:20:40.740 Hypnotic and so why is that relevant?

NOTE Confidence: 0.894653532

00:20:40.740 --> 00:20:43.086 Because there's this talk, you know,

NOTE Confidence: 0.894653532

00:20:43.090 --> 00:20:44.710 and there's this really nice paper

NOTE Confidence: 0.894653532

00:20:44.710 --> 00:20:46.559 that was published out from Australia.

NOTE Confidence: 0.894653532

00:20:46.560 --> 00:20:49.460 Buy chocolates are and colleagues

NOTE Confidence: 0.894653532

00:20:49.460 --> 00:20:50.620 Nick Antiage.

NOTE Confidence: 0.894653532

00:20:50.620 --> 00:20:50.999 Uhm,

NOTE Confidence: 0.894653532

00:20:50.999 --> 00:20:51.757 you know.

NOTE Confidence: 0.894653532

00:20:51.757 --> 00:20:54.410 A finding that in a randomized control

NOTE Confidence: 0.894653532

00:20:54.483 --> 00:20:56.593 trial and primary care physicians

NOTE Confidence: 0.894653532

00:20:56.593 --> 00:20:59.420 were taking care of these patients.

NOTE Confidence: 0.894653532

00:20:59.420 --> 00:21:01.919 I was a specialist that they see

NOTE Confidence: 0.894653532

00:21:01.919 --> 00:21:06.180 PAP at Urance was non inferior

NOTE Confidence: 0.894653532

00:21:06.180 --> 00:21:08.822 in patients randomized to.

NOTE Confidence: 0.894653532

00:21:08.822 --> 00:21:11.527 Primary care in our end.

NOTE Confidence: 0.894653532

00:21:11.530 --> 00:21:11.755 Yeah,

NOTE Confidence: 0.894653532

00:21:11.755 --> 00:21:13.330 trained in the area of Sleep Medicine,

NOTE Confidence: 0.894653532

00:21:13.330 --> 00:21:16.618 but one of the concerns I had with

NOTE Confidence: 0.894653532

00:21:16.618 --> 00:21:19.430 this is that these RNS had about an

NOTE Confidence: 0.894653532

00:21:19.430 --> 00:21:21.388 average of 10 years of experience
NOTE Confidence: 0.894653532

00:21:21.388 --> 00:21:24.125 working in the field of sleep apnea.
NOTE Confidence: 0.894653532

00:21:24.130 --> 00:21:26.250 So if you have a RN that works
NOTE Confidence: 0.894653532

00:21:26.250 --> 00:21:28.726 for 10 years and sleep apnea feel
NOTE Confidence: 0.894653532

00:21:28.730 --> 00:21:30.655 you know you can argue that that
NOTE Confidence: 0.894653532

00:21:30.655 --> 00:21:32.240 person is actually a specialist,
NOTE Confidence: 0.894653532

00:21:32.240 --> 00:21:33.969 you know is on the job training
NOTE Confidence: 0.894653532

00:21:33.969 --> 00:21:36.002 as opposed to someone who did a
NOTE Confidence: 0.894653532

00:21:36.002 --> 00:21:37.602 fellowship and calls themselves that.
NOTE Confidence: 0.894653532

00:21:37.602 --> 00:21:40.580 And so when we did a meta analysis.
NOTE Confidence: 0.894653532

00:21:40.580 --> 00:21:43.658 Come come on, this particular issue.
NOTE Confidence: 0.894653532

00:21:43.660 --> 00:21:48.116 We found that by doing a you know
NOTE Confidence: 0.894653532

00:21:48.116 --> 00:21:50.770 systematic review that the CPAP
NOTE Confidence: 0.874232267727273

00:21:50.770 --> 00:21:52.882 adherence was indeed better in people
NOTE Confidence: 0.874232267727273

00:21:52.882 --> 00:21:54.666 in the published literature and
NOTE Confidence: 0.874232267727273

00:21:54.666 --> 00:21:56.236 sleep specialists were taking care

NOTE Confidence: 0.874232267727273
00:21:56.236 --> 00:21:58.260 of them rather than primary care.
NOTE Confidence: 0.874232267727273
00:21:58.260 --> 00:22:01.074 So I totally subscribe to a combined
NOTE Confidence: 0.874232267727273
00:22:01.074 --> 00:22:03.390 model of specialist working hand in
NOTE Confidence: 0.874232267727273
00:22:03.390 --> 00:22:05.300 hand with primary care physicians
NOTE Confidence: 0.874232267727273
00:22:05.370 --> 00:22:08.028 and there would be test shifting
NOTE Confidence: 0.874232267727273
00:22:08.028 --> 00:22:09.357 and collaborative interdisciplinary
NOTE Confidence: 0.874232267727273
00:22:09.357 --> 00:22:11.687 care being provided totally for it.
NOTE Confidence: 0.874232267727273
00:22:11.690 --> 00:22:13.085 But with the complexity that's
NOTE Confidence: 0.874232267727273
00:22:13.085 --> 00:22:14.822 evolving in the area of sleep
NOTE Confidence: 0.874232267727273
00:22:14.822 --> 00:22:16.550 apnea such as the Philips device,
NOTE Confidence: 0.874232267727273
00:22:16.550 --> 00:22:18.478 recall these risks associated
NOTE Confidence: 0.874232267727273
00:22:18.478 --> 00:22:20.846 associated with that as well as I
NOTE Confidence: 0.874232267727273
00:22:20.846 --> 00:22:22.936 work being done at Yale in terms of
NOTE Confidence: 0.874232267727273
00:22:22.936 --> 00:22:24.880 looking at loop gain and arousal
NOTE Confidence: 0.874232267727273
00:22:24.880 --> 00:22:26.444 threshold and different approaches
NOTE Confidence: 0.874232267727273

00:22:26.444 --> 00:22:28.579 to managing patients with sleep
NOTE Confidence: 0.874232267727273

00:22:28.579 --> 00:22:31.954 apnea ranging from hypoglossal nerve
NOTE Confidence: 0.874232267727273

00:22:31.954 --> 00:22:34.898 stimulation to medications targeting
NOTE Confidence: 0.874232267727273

00:22:34.900 --> 00:22:38.732 the controller respiratory control.
NOTE Confidence: 0.874232267727273

00:22:38.732 --> 00:22:41.040 Are you really getting into it?
NOTE Confidence: 0.874232267727273

00:22:41.040 --> 00:22:43.336 Pretty complex area where there needs to be.
NOTE Confidence: 0.874232267727273

00:22:43.340 --> 00:22:45.134 Perhaps the easier cases handled our
NOTE Confidence: 0.874232267727273

00:22:45.134 --> 00:22:47.015 primary care and the more complex
NOTE Confidence: 0.874232267727273

00:22:47.015 --> 00:22:49.334 cases handled by a specialist,
NOTE Confidence: 0.874232267727273

00:22:49.334 --> 00:22:52.512 so it's going to be something that
NOTE Confidence: 0.874232267727273

00:22:52.512 --> 00:22:54.864 more research needs to be done on.
NOTE Confidence: 0.874232267727273

00:22:54.870 --> 00:22:58.762 So as segue to determinants of adherence
NOTE Confidence: 0.874232267727273

00:22:58.762 --> 00:23:02.881 here and and this is sort of the slide
NOTE Confidence: 0.874232267727273

00:23:02.881 --> 00:23:04.927 with that where you have domains
NOTE Confidence: 0.874232267727273

00:23:04.927 --> 00:23:07.179 of therapy based patient based and
NOTE Confidence: 0.874232267727273

00:23:07.179 --> 00:23:09.810 health care delivery based variables and.

NOTE Confidence: 0.874232267727273
00:23:09.810 --> 00:23:10.880 You know,
NOTE Confidence: 0.874232267727273
00:23:10.880 --> 00:23:13.555 under patient there's the psychological.
NOTE Confidence: 0.874232267727273
00:23:13.560 --> 00:23:16.066 There's a physical and the social and
NOTE Confidence: 0.874232267727273
00:23:16.066 --> 00:23:18.319 actually hadn't updated my slide in awhile.
NOTE Confidence: 0.874232267727273
00:23:18.320 --> 00:23:21.266 But after Andres paper get published,
NOTE Confidence: 0.874232267727273
00:23:21.270 --> 00:23:23.538 I added the lower arousal threshold
NOTE Confidence: 0.874232267727273
00:23:23.538 --> 00:23:25.618 as a physical factor that's
NOTE Confidence: 0.874232267727273
00:23:25.618 --> 00:23:27.622 contributing to see patterns.
NOTE Confidence: 0.874232267727273
00:23:27.622 --> 00:23:30.658 And some of these are reversible,
NOTE Confidence: 0.874232267727273
00:23:30.660 --> 00:23:32.529 some of them are obviously or not,
NOTE Confidence: 0.874232267727273
00:23:32.530 --> 00:23:34.399 and some of them can be targeted,
NOTE Confidence: 0.874232267727273
00:23:34.400 --> 00:23:37.151 and so the areas that are highlighted
NOTE Confidence: 0.874232267727273
00:23:37.151 --> 00:23:39.340 in red become our targets.
NOTE Confidence: 0.874232267727273
00:23:39.340 --> 00:23:40.540 If you want to really improve,
NOTE Confidence: 0.874232267727273
00:23:40.540 --> 00:23:41.659 see Pepper Durance.
NOTE Confidence: 0.874232267727273

00:23:41.659 --> 00:23:43.524 In patients with sleep apnea,
NOTE Confidence: 0.874232267727273

00:23:43.530 --> 00:23:45.618 these are the determinants
NOTE Confidence: 0.874232267727273

00:23:45.618 --> 00:23:48.228 that we should be targeting.
NOTE Confidence: 0.874232267727273

00:23:48.230 --> 00:23:51.638 And so just to.
NOTE Confidence: 0.874232267727273

00:23:51.640 --> 00:23:54.280 Give a refresher and all many of you
NOTE Confidence: 0.874232267727273

00:23:54.280 --> 00:23:57.134 know all this data by the back of your
NOTE Confidence: 0.874232267727273

00:23:57.140 --> 00:24:00.815 palm and you know auto PAP therapy,
NOTE Confidence: 0.874232267727273

00:24:00.820 --> 00:24:03.116 at least the last cocaine review which
NOTE Confidence: 0.874232267727273

00:24:03.116 --> 00:24:05.634 is again dated suggested that it may
NOTE Confidence: 0.874232267727273

00:24:05.634 --> 00:24:07.830 actually help a subgroup of patients.
NOTE Confidence: 0.874232267727273

00:24:07.830 --> 00:24:08.620 Although bilevel,
NOTE Confidence: 0.874232267727273

00:24:08.620 --> 00:24:10.595 PAP and patient titrated CPAP
NOTE Confidence: 0.874232267727273

00:24:10.595 --> 00:24:12.420 or humidification had no effect,
NOTE Confidence: 0.874232267727273

00:24:12.420 --> 00:24:17.178 but CBT emerged and educational support,
NOTE Confidence: 0.874232267727273

00:24:17.180 --> 00:24:19.244 behavioral support psychological
NOTE Confidence: 0.874232267727273

00:24:19.244 --> 00:24:21.996 support has been shown.

NOTE Confidence: 0.874232267727273
00:24:22.000 --> 00:24:22.414 Uhm,
NOTE Confidence: 0.874232267727273
00:24:22.414 --> 00:24:25.287 to have a pretty high signal but
NOTE Confidence: 0.874232267727273
00:24:25.287 --> 00:24:27.609 there were concerns that the amount
NOTE Confidence: 0.874232267727273
00:24:27.609 --> 00:24:31.073 of data there was smaller and so the
NOTE Confidence: 0.874232267727273
00:24:31.073 --> 00:24:32.857 confidence intervals were large.
NOTE Confidence: 0.874232267727273
00:24:32.860 --> 00:24:34.482 And of course it's a date, admit,
NOTE Confidence: 0.874232267727273
00:24:34.482 --> 00:24:38.094 analysis and and and and so.
NOTE Confidence: 0.874232267727273
00:24:38.100 --> 00:24:40.977 A segue into some other physician variables,
NOTE Confidence: 0.874232267727273
00:24:40.980 --> 00:24:41.243 again,
NOTE Confidence: 0.874232267727273
00:24:41.243 --> 00:24:43.084 that can affect the puppet you're insane.
NOTE Confidence: 0.874232267727273
00:24:43.090 --> 00:24:45.322 This is a study that we did a
NOTE Confidence: 0.874232267727273
00:24:45.322 --> 00:24:47.672 gosh back in 2005 where we found
NOTE Confidence: 0.874232267727273
00:24:47.672 --> 00:24:49.926 out that time out of C.
NOTE Confidence: 0.874232267727273
00:24:49.926 --> 00:24:51.642 Pap's were given only four percent
NOTE Confidence: 0.874232267727273
00:24:51.642 --> 00:24:53.376 of the times. 96% of the time.
NOTE Confidence: 0.874232267727273

00:24:53.376 --> 00:24:54.980 So whether CPAP Bipap and you know,
NOTE Confidence: 0.874232267727273

00:24:54.980 --> 00:24:56.462 you can argue that it's going
NOTE Confidence: 0.874232267727273

00:24:56.462 --> 00:24:58.019 to be pretty topsy turvy now,
NOTE Confidence: 0.874232267727273

00:24:58.020 --> 00:25:00.228 so a lot has changed and at that
NOTE Confidence: 0.874232267727273

00:25:00.228 --> 00:25:01.366 time 30% of physicians said
NOTE Confidence: 0.874232267727273

00:25:01.366 --> 00:25:02.476 that they never prosper auto,
NOTE Confidence: 0.874232267727273

00:25:02.480 --> 00:25:04.125 CPAP devices and many were
NOTE Confidence: 0.874232267727273

00:25:04.125 --> 00:25:05.770 not aware of all the
NOTE Confidence: 0.789540393571429

00:25:05.846 --> 00:25:08.090 contraindications for auto CPAP.
NOTE Confidence: 0.789540393571429

00:25:08.090 --> 00:25:10.970 Dumb and dumb. In other words,
NOTE Confidence: 0.789540393571429

00:25:10.970 --> 00:25:12.968 their knowledge base and dumb and
NOTE Confidence: 0.789540393571429

00:25:12.968 --> 00:25:14.674 patient physicians with who actually
NOTE Confidence: 0.789540393571429

00:25:14.674 --> 00:25:16.886 had a greater volume of patients with
NOTE Confidence: 0.789540393571429

00:25:16.886 --> 00:25:19.038 sleep apnea practice were more likely
NOTE Confidence: 0.789540393571429

00:25:19.038 --> 00:25:20.858 to prescribe odyssey type devices.
NOTE Confidence: 0.789540393571429

00:25:20.860 --> 00:25:24.016 And so, and at that time back in 2005,

NOTE Confidence: 0.789540393571429

00:25:24.016 --> 00:25:26.508 half them, half the physicians did not

NOTE Confidence: 0.789540393571429

00:25:26.508 --> 00:25:29.298 request or insist on adherence monitoring,

NOTE Confidence: 0.789540393571429

00:25:29.300 --> 00:25:31.500 because at that time you need to actually

NOTE Confidence: 0.789540393571429

00:25:31.500 --> 00:25:34.190 ask for CPAP unions device to be attached

NOTE Confidence: 0.789540393571429

00:25:34.190 --> 00:25:38.870 to a machine like a modem or something.

NOTE Confidence: 0.789540393571429

00:25:38.870 --> 00:25:40.070 Which was attached to

NOTE Confidence: 0.789540393571429

00:25:40.070 --> 00:25:41.570 the back of the machine.

NOTE Confidence: 0.789540393571429

00:25:41.570 --> 00:25:43.978 So if you probably I'm not even

NOTE Confidence: 0.789540393571429

00:25:43.978 --> 00:25:45.909 seeing what it looks like,

NOTE Confidence: 0.789540393571429

00:25:45.910 --> 00:25:48.702 but you can just see that you know

NOTE Confidence: 0.789540393571429

00:25:48.702 --> 00:25:51.662 in this span of about 16 years the

NOTE Confidence: 0.789540393571429

00:25:51.662 --> 00:25:53.846 field of Sleep Medicine has rapidly

NOTE Confidence: 0.789540393571429

00:25:53.846 --> 00:25:56.287 changed where it's universal adherence,

NOTE Confidence: 0.789540393571429

00:25:56.290 --> 00:25:59.320 monitoring and and so it's quite

NOTE Confidence: 0.789540393571429

00:25:59.320 --> 00:26:02.409 different as to how we manage.

NOTE Confidence: 0.789540393571429

00:26:02.410 --> 00:26:05.266 You know, patients with sleep apnea.
NOTE Confidence: 0.789540393571429

00:26:05.270 --> 00:26:08.825 So this is again a cornerstone in this area.
NOTE Confidence: 0.789540393571429

00:26:08.830 --> 00:26:10.360 Self supported, reported.
NOTE Confidence: 0.789540393571429

00:26:10.360 --> 00:26:12.740 See patterns or Smiths significantly,
NOTE Confidence: 0.789540393571429

00:26:12.740 --> 00:26:15.120 and the C PAP usage people always
NOTE Confidence: 0.789540393571429

00:26:15.120 --> 00:26:17.168 or estimate how much they're using.
NOTE Confidence: 0.789540393571429

00:26:17.170 --> 00:26:19.375 And so therefore self reported
NOTE Confidence: 0.789540393571429

00:26:19.375 --> 00:26:20.257 stupider insufficient,
NOTE Confidence: 0.789540393571429

00:26:20.260 --> 00:26:22.759 and that's why we need to monitor
NOTE Confidence: 0.789540393571429

00:26:22.759 --> 00:26:25.954 people or 100% for their C Pap when I
NOTE Confidence: 0.789540393571429

00:26:25.954 --> 00:26:27.974 have resident physicians and medical
NOTE Confidence: 0.789540393571429

00:26:27.974 --> 00:26:30.990 students rotate with us and sleep clinic,
NOTE Confidence: 0.789540393571429

00:26:30.990 --> 00:26:33.458 I do end up by asking them, you know,
NOTE Confidence: 0.789540393571429

00:26:33.458 --> 00:26:36.090 with what clinic did where you at before
NOTE Confidence: 0.789540393571429

00:26:36.160 --> 00:26:38.400 you're rotating in Sleep Medicine.
NOTE Confidence: 0.789540393571429

00:26:38.400 --> 00:26:39.678 And I'll say, oh, you know,

NOTE Confidence: 0.789540393571429
00:26:39.680 --> 00:26:40.930 I wasn't in Thomaston clinic,
NOTE Confidence: 0.789540393571429
00:26:40.930 --> 00:26:42.876 or I was in the primary clinic.
NOTE Confidence: 0.789540393571429
00:26:42.880 --> 00:26:45.240 And I asked them,
NOTE Confidence: 0.789540393571429
00:26:45.240 --> 00:26:48.050 did you find out whether this person
NOTE Confidence: 0.789540393571429
00:26:48.050 --> 00:26:50.220 who was on a cholesterol lowering
NOTE Confidence: 0.789540393571429
00:26:50.220 --> 00:26:52.136 medication or and hypertensive
NOTE Confidence: 0.789540393571429
00:26:52.140 --> 00:26:55.842 or who's taking insulin for their
NOTE Confidence: 0.789540393571429
00:26:55.842 --> 00:27:00.280 diabetes and inhalers for their COPD?
NOTE Confidence: 0.789540393571429
00:27:00.280 --> 00:27:04.000 Did you monitor their adherence and I
NOTE Confidence: 0.789540393571429
00:27:04.000 --> 00:27:07.407 would say 99% of the time the answer is no.
NOTE Confidence: 0.789540393571429
00:27:07.410 --> 00:27:09.314 And then the question is do you?
NOTE Confidence: 0.789540393571429
00:27:09.320 --> 00:27:12.137 Did you withhold therapy in any one of them?
NOTE Confidence: 0.789540393571429
00:27:12.140 --> 00:27:13.092 A diabetic.
NOTE Confidence: 0.789540393571429
00:27:13.092 --> 00:27:16.424 Is not taking insulin to withhold their
NOTE Confidence: 0.789540393571429
00:27:16.424 --> 00:27:19.407 insulin because they're non adherence?
NOTE Confidence: 0.789540393571429

00:27:19.410 --> 00:27:21.586 And again, universally, dancers.
NOTE Confidence: 0.789540393571429

00:27:21.586 --> 00:27:25.010 Wow. No, we would never do that.
NOTE Confidence: 0.789540393571429

00:27:25.010 --> 00:27:28.817 So when I submit to you is is that.
NOTE Confidence: 0.789540393571429

00:27:28.820 --> 00:27:31.622 Sleep Medicine is the only field
NOTE Confidence: 0.789540393571429

00:27:31.622 --> 00:27:34.340 where we withdraw CPAP benefits.
NOTE Confidence: 0.789540393571429

00:27:34.340 --> 00:27:34.782 UM,
NOTE Confidence: 0.789540393571429

00:27:34.782 --> 00:27:37.434 if patients are nonadherent and it's
NOTE Confidence: 0.789540393571429

00:27:37.434 --> 00:27:40.880 just as you know, not just for CMS,
NOTE Confidence: 0.789540393571429

00:27:40.880 --> 00:27:41.280 Medicare,
NOTE Confidence: 0.789540393571429

00:27:41.280 --> 00:27:41.600 Medicaid,
NOTE Confidence: 0.789540393571429

00:27:41.600 --> 00:27:44.160 but it also is taken up by other
NOTE Confidence: 0.789540393571429

00:27:44.160 --> 00:27:45.620 third party insurance.
NOTE Confidence: 0.789540393571429

00:27:45.620 --> 00:27:48.336 So I know the American Thoracic society,
NOTE Confidence: 0.789540393571429

00:27:48.340 --> 00:27:48.826 you know,
NOTE Confidence: 0.789540393571429

00:27:48.826 --> 00:27:51.630 part of a some of you are part of that task.
NOTE Confidence: 0.789540393571429

00:27:51.630 --> 00:27:54.750 Force policy document is being written

NOTE Confidence: 0.789540393571429
00:27:54.750 --> 00:27:56.780 that hopefully will go and change this,
NOTE Confidence: 0.789540393571429
00:27:56.780 --> 00:27:58.922 but I was on a call with seems innovation.
NOTE Confidence: 0.789540393571429
00:27:58.930 --> 00:28:00.762 Center as a KOL,
NOTE Confidence: 0.789540393571429
00:28:00.762 --> 00:28:04.078 I'm talking to them about what ails
NOTE Confidence: 0.789540393571429
00:28:04.078 --> 00:28:08.050 the sleeper in area and come along
NOTE Confidence: 0.789540393571429
00:28:08.050 --> 00:28:14.280 with people from AHRQ and Corey and.
NOTE Confidence: 0.789540393571429
00:28:14.280 --> 00:28:16.645 QMP Corey were aghast that
NOTE Confidence: 0.789540393571429
00:28:16.645 --> 00:28:18.537 such a policy existed.
NOTE Confidence: 0.789540393571429
00:28:18.540 --> 00:28:20.030 It's only see Ms Innovation
NOTE Confidence: 0.789540393571429
00:28:20.030 --> 00:28:21.930 Center and also the CAG Group,
NOTE Confidence: 0.789540393571429
00:28:21.930 --> 00:28:23.540 which is the advisory group
NOTE Confidence: 0.789540393571429
00:28:23.540 --> 00:28:25.150 that determines what is covered
NOTE Confidence: 0.789540393571429
00:28:25.212 --> 00:28:26.580 by Medicare and Medicaid.
NOTE Confidence: 0.789540393571429
00:28:26.580 --> 00:28:27.651 And of course,
NOTE Confidence: 0.789540393571429
00:28:27.651 --> 00:28:29.436 all insurances follow Medicare Medicaid
NOTE Confidence: 0.781818216

00:28:29.440 --> 00:28:30.860 as to what is coverage,
NOTE Confidence: 0.781818216

00:28:30.860 --> 00:28:32.424 so the coverage determinations
NOTE Confidence: 0.781818216

00:28:32.424 --> 00:28:35.240 being made is done by device cagri,
NOTE Confidence: 0.781818216

00:28:35.240 --> 00:28:37.094 and so they were on the call as well.
NOTE Confidence: 0.781818216

00:28:37.100 --> 00:28:39.054 And they seem to know the policy, they said.
NOTE Confidence: 0.781818216

00:28:39.054 --> 00:28:40.853 It's not even set by the Department
NOTE Confidence: 0.781818216

00:28:40.853 --> 00:28:42.540 of Health and Human Services.
NOTE Confidence: 0.781818216

00:28:42.540 --> 00:28:44.450 It's actually a congressional law.
NOTE Confidence: 0.781818216

00:28:44.450 --> 00:28:46.898 That was passed in 2001 that has been
NOTE Confidence: 0.781818216

00:28:46.898 --> 00:28:48.787 not implemented for the longest time,
NOTE Confidence: 0.781818216

00:28:48.790 --> 00:28:51.950 but in the year 2016 or so it
NOTE Confidence: 0.781818216

00:28:51.950 --> 00:28:53.736 became implemented, and so you know,
NOTE Confidence: 0.781818216

00:28:53.736 --> 00:28:55.596 there are lots of laws that are
NOTE Confidence: 0.781818216

00:28:55.596 --> 00:28:57.106 not implemented as you know,
NOTE Confidence: 0.781818216

00:28:57.110 --> 00:28:59.434 but they dusted it out from 2001
NOTE Confidence: 0.781818216

00:28:59.434 --> 00:29:01.458 and decided to implement it.

NOTE Confidence: 0.781818216

00:29:01.458 --> 00:29:04.351 So this 90 day rule actually has

NOTE Confidence: 0.781818216

00:29:04.351 --> 00:29:07.558 its theology to this archaic

NOTE Confidence: 0.781818216

00:29:07.558 --> 00:29:09.754 lauders possible Congress.

NOTE Confidence: 0.781818216

00:29:09.760 --> 00:29:12.070 So the only way to go and change it is

NOTE Confidence: 0.781818216

00:29:12.138 --> 00:29:14.754 actually go to Congress and change the law.

NOTE Confidence: 0.781818216

00:29:14.760 --> 00:29:16.100 It's not American Medicaid,

NOTE Confidence: 0.781818216

00:29:16.100 --> 00:29:18.868 so they said the more data that you

NOTE Confidence: 0.781818216

00:29:18.868 --> 00:29:20.950 folks can generate that shows the

NOTE Confidence: 0.781818216

00:29:20.950 --> 00:29:23.140 puppeteer and is harming these people

NOTE Confidence: 0.781818216

00:29:23.140 --> 00:29:27.116 and making them not use the device,

NOTE Confidence: 0.781818216

00:29:27.120 --> 00:29:29.150 sends that data and but also lobby

NOTE Confidence: 0.781818216

00:29:29.150 --> 00:29:31.345 so that you can actually go and

NOTE Confidence: 0.781818216

00:29:31.345 --> 00:29:33.235 change the policy in the land.

NOTE Confidence: 0.781818216

00:29:33.240 --> 00:29:35.424 Then there's no other chronic medical

NOTE Confidence: 0.781818216

00:29:35.424 --> 00:29:38.018 condition in the United States of America.

NOTE Confidence: 0.781818216

00:29:38.020 --> 00:29:39.460 Where treatment is withheld
NOTE Confidence: 0.781818216

00:29:39.460 --> 00:29:41.260 of people are non Indian.
NOTE Confidence: 0.781818216

00:29:41.260 --> 00:29:44.050 The only only condition is obstructive
NOTE Confidence: 0.781818216

00:29:44.050 --> 00:29:47.246 sleep apnea and it's based on CPAP
NOTE Confidence: 0.781818216

00:29:47.246 --> 00:29:49.754 nonadherence and so that's why you
NOTE Confidence: 0.781818216

00:29:49.754 --> 00:29:52.698 know we're talking about it here and
NOTE Confidence: 0.781818216

00:29:52.698 --> 00:29:54.606 so let's telemonitoring you know we
NOTE Confidence: 0.781818216

00:29:54.606 --> 00:29:57.151 just did a sea change in the way
NOTE Confidence: 0.781818216

00:29:57.151 --> 00:29:59.000 we practice medicine and I know
NOTE Confidence: 0.781818216

00:29:59.000 --> 00:30:01.280 at one point in time you all were
NOTE Confidence: 0.781818216

00:30:01.280 --> 00:30:03.437 practicing our person telemedicine VR.
NOTE Confidence: 0.781818216

00:30:03.437 --> 00:30:08.004 Right now I would say about 85, fifteen 85%.
NOTE Confidence: 0.781818216

00:30:08.004 --> 00:30:11.774 In person and 15% Tele medicine.
NOTE Confidence: 0.781818216

00:30:11.774 --> 00:30:13.909 Although that number keeps fluctuating
NOTE Confidence: 0.781818216

00:30:13.909 --> 00:30:14.763 of course,
NOTE Confidence: 0.781818216

00:30:14.770 --> 00:30:17.770 as we continue to go up on the

NOTE Confidence: 0.781818216

00:30:17.770 --> 00:30:20.512 foot surge and and this was done by

NOTE Confidence: 0.781818216

00:30:20.512 --> 00:30:22.528 Carl Stepnowski at UCSD and found

NOTE Confidence: 0.781818216

00:30:22.528 --> 00:30:24.968 that at that time that it was only

NOTE Confidence: 0.781818216

00:30:25.038 --> 00:30:26.908 as effective as usual care.

NOTE Confidence: 0.781818216

00:30:26.910 --> 00:30:28.772 But there's a question as to whether

NOTE Confidence: 0.781818216

00:30:28.772 --> 00:30:30.270 there's a underpowered study,

NOTE Confidence: 0.781818216

00:30:30.270 --> 00:30:32.190 which is 45 participants,

NOTE Confidence: 0.781818216

00:30:32.190 --> 00:30:34.622 and so one of the questions that keeps

NOTE Confidence: 0.781818216

00:30:34.622 --> 00:30:36.748 getting asked is where is the evidence?

NOTE Confidence: 0.781818216

00:30:36.750 --> 00:30:37.139 Why?

NOTE Confidence: 0.781818216

00:30:37.139 --> 00:30:37.528 Why?

NOTE Confidence: 0.781818216

00:30:37.528 --> 00:30:40.640 Why should we treat our circle sleep apnea?

NOTE Confidence: 0.781818216

00:30:40.640 --> 00:30:41.232 You know,

NOTE Confidence: 0.781818216

00:30:41.232 --> 00:30:43.421 it's just before I started making tacos.

NOTE Confidence: 0.781818216

00:30:43.421 --> 00:30:45.476 Just talking with Janet about

NOTE Confidence: 0.781818216

00:30:45.476 --> 00:30:47.824 you know we're having some basic
NOTE Confidence: 0.781818216

00:30:47.824 --> 00:30:49.200 discussions with patients when
NOTE Confidence: 0.781818216

00:30:49.200 --> 00:30:50.920 we're doing the Phillips recall.
NOTE Confidence: 0.781818216

00:30:50.920 --> 00:30:53.279 Like why are we treating you again?
NOTE Confidence: 0.781818216

00:30:53.280 --> 00:30:54.140 Oh yeah, I know,
NOTE Confidence: 0.781818216

00:30:54.140 --> 00:30:55.000 we're treating you because
NOTE Confidence: 0.781818216

00:30:55.000 --> 00:30:56.080 if you stop using it,
NOTE Confidence: 0.781818216

00:30:56.080 --> 00:30:58.468 you're sleepy or you have comorbidities.
NOTE Confidence: 0.781818216

00:30:58.470 --> 00:31:01.020 We're having that discussion now,
NOTE Confidence: 0.781818216

00:31:01.020 --> 00:31:04.012 but when you go to somehow in the
NOTE Confidence: 0.781818216

00:31:04.012 --> 00:31:05.600 HRQ released, you know, as you know,
NOTE Confidence: 0.781818216

00:31:05.600 --> 00:31:07.994 a document which said that why should
NOTE Confidence: 0.781818216

00:31:07.994 --> 00:31:10.189 we treat people with sleep apnea?
NOTE Confidence: 0.781818216

00:31:10.190 --> 00:31:11.405 Because there's no evidence in
NOTE Confidence: 0.781818216

00:31:11.405 --> 00:31:12.890 the field of sports that well,
NOTE Confidence: 0.781818216

00:31:12.890 --> 00:31:13.646 here's data.

NOTE Confidence: 0.781818216

00:31:13.646 --> 00:31:16.670 Uhm, you know this is the HYPOCRIT trial.

NOTE Confidence: 0.781818216

00:31:16.670 --> 00:31:18.932 This is the Spanish multi collaborative

NOTE Confidence: 0.781818216

00:31:18.932 --> 00:31:21.202 group which actually showed that

NOTE Confidence: 0.781818216

00:31:21.202 --> 00:31:24.040 you have reductions in 24 hour

NOTE Confidence: 0.781818216

00:31:24.127 --> 00:31:26.166 blood pressure with the mean,

NOTE Confidence: 0.781818216

00:31:26.166 --> 00:31:28.210 and that's solid blood pressure and you

NOTE Confidence: 0.788131069285714

00:31:28.268 --> 00:31:30.312 know when you compare that with blood

NOTE Confidence: 0.788131069285714

00:31:30.312 --> 00:31:32.240 pressure of meta analysis that have

NOTE Confidence: 0.788131069285714

00:31:32.240 --> 00:31:34.282 been done using inhabitants of these,

NOTE Confidence: 0.788131069285714

00:31:34.282 --> 00:31:37.523 you know data very, very, you know,

NOTE Confidence: 0.788131069285714

00:31:37.523 --> 00:31:40.949 comparable and so patient level strategies.

NOTE Confidence: 0.788131069285714

00:31:40.950 --> 00:31:42.987 Have resulted in a drop in blood

NOTE Confidence: 0.788131069285714

00:31:42.987 --> 00:31:44.722 pressure of 3.9 millimeters mercury,

NOTE Confidence: 0.788131069285714

00:31:44.722 --> 00:31:47.026 and that's very comparable to what

NOTE Confidence: 0.788131069285714

00:31:47.026 --> 00:31:49.367 was seen in this multicenter trial.

NOTE Confidence: 0.788131069285714

00:31:49.370 --> 00:31:51.034 Yes, it is true that this is for
NOTE Confidence: 0.788131069285714

00:31:51.034 --> 00:31:52.307 people with resistant hypertension
NOTE Confidence: 0.788131069285714

00:31:52.307 --> 00:31:53.915 and obstructive sleep apnea,
NOTE Confidence: 0.788131069285714

00:31:53.920 --> 00:31:55.590 so it's not all comers,
NOTE Confidence: 0.788131069285714

00:31:55.590 --> 00:31:58.929 but you can see that you know that C.
NOTE Confidence: 0.788131069285714

00:31:58.930 --> 00:32:00.800 Pap is beneficial in improving
NOTE Confidence: 0.788131069285714

00:32:00.800 --> 00:32:02.534 blood pressure, and as you know,
NOTE Confidence: 0.788131069285714

00:32:02.534 --> 00:32:04.010 with every millimeters of mercury I
NOTE Confidence: 0.788131069285714

00:32:04.058 --> 00:32:05.784 don't need to tell this group that
NOTE Confidence: 0.788131069285714

00:32:05.784 --> 00:32:07.908 you reduce their mean blood pressure.
NOTE Confidence: 0.788131069285714

00:32:07.910 --> 00:32:09.835 You introduce a lifetime risk
NOTE Confidence: 0.788131069285714

00:32:09.835 --> 00:32:10.990 for cardiovascular events.
NOTE Confidence: 0.788131069285714

00:32:10.990 --> 00:32:11.743 Including you know,
NOTE Confidence: 0.788131069285714

00:32:11.743 --> 00:32:13.456 heart attacks and strokes, so, uh,
NOTE Confidence: 0.788131069285714

00:32:13.456 --> 00:32:15.927 this these are real numbers and their
NOTE Confidence: 0.788131069285714

00:32:15.927 --> 00:32:18.690 compara bulito and hypertensive medications.

NOTE Confidence: 0.788131069285714

00:32:18.690 --> 00:32:20.748 And so when we hear about,

NOTE Confidence: 0.788131069285714

00:32:20.750 --> 00:32:22.030 you know where's the data?

NOTE Confidence: 0.788131069285714

00:32:22.030 --> 00:32:23.848 You know at least we have

NOTE Confidence: 0.788131069285714

00:32:23.848 --> 00:32:24.757 data in hypertension.

NOTE Confidence: 0.788131069285714

00:32:24.760 --> 00:32:26.850 Now Pastor air pressure therapy.

NOTE Confidence: 0.788131069285714

00:32:26.850 --> 00:32:29.698 You know in the form of anonymous passers,

NOTE Confidence: 0.788131069285714

00:32:29.700 --> 00:32:31.170 therapy or bilevel PAP therapy.

NOTE Confidence: 0.788131069285714

00:32:31.170 --> 00:32:33.648 In the home there's strong data,

NOTE Confidence: 0.788131069285714

00:32:33.650 --> 00:32:36.100 again, not from the US,

NOTE Confidence: 0.788131069285714

00:32:36.100 --> 00:32:39.950 from Europe and the UK.

NOTE Confidence: 0.788131069285714

00:32:39.950 --> 00:32:42.320 In a multicenter study by clean

NOTE Confidence: 0.788131069285714

00:32:42.320 --> 00:32:44.800 and all and Murphy and colleagues

NOTE Confidence: 0.788131069285714

00:32:44.800 --> 00:32:47.670 showing that when you apply an IPV

NOTE Confidence: 0.788131069285714

00:32:47.670 --> 00:32:50.460 or an Ivy in patients with COPD,

NOTE Confidence: 0.788131069285714

00:32:50.460 --> 00:32:53.715 you can reduce mortality.

NOTE Confidence: 0.788131069285714

00:32:53.715 --> 00:32:56.625 You can improve survival and so
NOTE Confidence: 0.788131069285714

00:32:56.625 --> 00:32:59.319 so data showing that posterior
NOTE Confidence: 0.788131069285714

00:32:59.319 --> 00:33:02.189 pressure therapy in these people.
NOTE Confidence: 0.788131069285714

00:33:02.190 --> 00:33:03.890 That Pastor impression therapy
NOTE Confidence: 0.788131069285714

00:33:03.890 --> 00:33:05.590 can make it then.
NOTE Confidence: 0.788131069285714

00:33:05.590 --> 00:33:06.314 On survival,
NOTE Confidence: 0.788131069285714

00:33:06.314 --> 00:33:08.848 but somehow in the US we haven't
NOTE Confidence: 0.788131069285714

00:33:08.848 --> 00:33:11.020 done a large multicenter trial
NOTE Confidence: 0.788131069285714

00:33:11.020 --> 00:33:12.756 in patients with CMPD,
NOTE Confidence: 0.788131069285714

00:33:12.760 --> 00:33:14.992 and so that's really a question
NOTE Confidence: 0.788131069285714

00:33:14.992 --> 00:33:17.370 as to what the strategic.
NOTE Confidence: 0.788131069285714

00:33:17.370 --> 00:33:19.806 Our plan is and what does the
NOTE Confidence: 0.788131069285714

00:33:19.806 --> 00:33:21.705 strategic plan support so many
NOTE Confidence: 0.788131069285714

00:33:21.705 --> 00:33:23.269 investigators in this area?
NOTE Confidence: 0.788131069285714

00:33:23.270 --> 00:33:26.105 You know, Jerry Kraner and Nick L.
NOTE Confidence: 0.788131069285714

00:33:26.110 --> 00:33:28.245 You know, I, you know I myself.

NOTE Confidence: 0.788131069285714
00:33:28.250 --> 00:33:30.834 We made a lot of attempts at doing.
NOTE Confidence: 0.788131069285714
00:33:30.840 --> 00:33:31.148 Gosh,
NOTE Confidence: 0.788131069285714
00:33:31.148 --> 00:33:32.996 twenty \$30 million grants to actually
NOTE Confidence: 0.788131069285714
00:33:32.996 --> 00:33:34.875 address probably one of the top five
NOTE Confidence: 0.788131069285714
00:33:34.875 --> 00:33:36.231 reasons for death in the United
NOTE Confidence: 0.788131069285714
00:33:36.283 --> 00:33:38.077 States of America, which is COPD.
NOTE Confidence: 0.788131069285714
00:33:38.077 --> 00:33:40.636 And we saw can't get that trial done
NOTE Confidence: 0.788131069285714
00:33:40.636 --> 00:33:43.204 in EU S because why is that important?
NOTE Confidence: 0.788131069285714
00:33:43.210 --> 00:33:45.919 It's important because.
NOTE Confidence: 0.788131069285714
00:33:45.920 --> 00:33:46.600 Research, however,
NOTE Confidence: 0.788131069285714
00:33:46.600 --> 00:33:48.640 that level of evidence is done
NOTE Confidence: 0.788131069285714
00:33:48.640 --> 00:33:49.779 outside of the US.
NOTE Confidence: 0.788131069285714
00:33:49.780 --> 00:33:51.068 Don't change healthcare policy.
NOTE Confidence: 0.788131069285714
00:33:51.068 --> 00:33:52.034 This is should.
NOTE Confidence: 0.788131069285714
00:33:52.040 --> 00:33:54.304 Making the US you need a study done
NOTE Confidence: 0.788131069285714

00:33:54.304 --> 00:33:56.459 in the US to change healthcare
NOTE Confidence: 0.788131069285714

00:33:56.459 --> 00:33:58.886 US health care policy and it is.
NOTE Confidence: 0.788131069285714

00:33:58.886 --> 00:34:01.000 We are remiss and not doing multi
NOTE Confidence: 0.788131069285714

00:34:01.073 --> 00:34:03.690 center trials and not just COPDN IV.
NOTE Confidence: 0.788131069285714

00:34:03.690 --> 00:34:06.180 But not doing a large multicenter
NOTE Confidence: 0.788131069285714

00:34:06.180 --> 00:34:07.570 trial on sleep.
NOTE Confidence: 0.788131069285714

00:34:07.570 --> 00:34:07.878 Happy.
NOTE Confidence: 0.788131069285714

00:34:07.878 --> 00:34:09.418 And how we can improve
NOTE Confidence: 0.788131069285714

00:34:09.418 --> 00:34:10.498 outcomes because you know,
NOTE Confidence: 0.788131069285714

00:34:10.498 --> 00:34:12.677 you know this is a meta analysis showing
NOTE Confidence: 0.788131069285714

00:34:12.677 --> 00:34:15.008 that you know with the published literature,
NOTE Confidence: 0.788131069285714

00:34:15.010 --> 00:34:16.590 not just those two studies,
NOTE Confidence: 0.788131069285714

00:34:16.590 --> 00:34:18.322 you can reduce mortality.
NOTE Confidence: 0.788131069285714

00:34:18.322 --> 00:34:20.920 The hazard ratio mortality is lower,
NOTE Confidence: 0.788131069285714

00:34:20.920 --> 00:34:22.486 but why are we set back?
NOTE Confidence: 0.788131069285714

00:34:22.490 --> 00:34:24.205 Why can't we do this multicenter trial?

NOTE Confidence: 0.788131069285714
00:34:24.210 --> 00:34:24.452 Well,
NOTE Confidence: 0.788131069285714
00:34:24.452 --> 00:34:26.388 we actually have the odds piled up against.
NOTE Confidence: 0.788131069285714
00:34:26.390 --> 00:34:27.059 As you know,
NOTE Confidence: 0.788131069285714
00:34:27.059 --> 00:34:28.620 this is one of the hits that
NOTE Confidence: 0.910679225
00:34:28.675 --> 00:34:30.530 we took. You know, one of gosh,
NOTE Confidence: 0.910679225
00:34:30.530 --> 00:34:32.375 four heads that we've taken
NOTE Confidence: 0.910679225
00:34:32.375 --> 00:34:34.220 in the past five years.
NOTE Confidence: 0.910679225
00:34:34.220 --> 00:34:35.858 You know, starting with the SAFE study,
NOTE Confidence: 0.910679225
00:34:35.860 --> 00:34:37.680 the Soviet chef study,
NOTE Confidence: 0.910679225
00:34:37.680 --> 00:34:39.955 and other JAMA Meta analysis,
NOTE Confidence: 0.910679225
00:34:39.960 --> 00:34:42.280 and now the AHRQ report.
NOTE Confidence: 0.910679225
00:34:42.280 --> 00:34:44.520 And then the Phillips recall,
NOTE Confidence: 0.910679225
00:34:44.520 --> 00:34:46.410 and so in this particular study,
NOTE Confidence: 0.910679225
00:34:46.410 --> 00:34:47.380 this study is, she know,
NOTE Confidence: 0.910679225
00:34:47.380 --> 00:34:48.924 did not show improvement
NOTE Confidence: 0.910679225

00:34:48.924 --> 00:34:50.765 and survival similar to the
NOTE Confidence: 0.910679225

00:34:50.765 --> 00:34:52.540 RIKHOTSO trial and other trials.
NOTE Confidence: 0.910679225

00:34:52.540 --> 00:34:54.993 But when you do an analysis,
NOTE Confidence: 0.910679225

00:34:54.993 --> 00:34:56.199 secondary analysis,
NOTE Confidence: 0.910679225

00:34:56.199 --> 00:34:59.817 or even our priority stated analysis,
NOTE Confidence: 0.910679225

00:34:59.820 --> 00:35:01.612 where we look at the only people
NOTE Confidence: 0.910679225

00:35:01.612 --> 00:35:03.176 who are adherents and you can
NOTE Confidence: 0.910679225

00:35:03.176 --> 00:35:04.646 see that you can actually help.
NOTE Confidence: 0.910679225

00:35:04.650 --> 00:35:05.766 Show that there is a need,
NOTE Confidence: 0.910679225

00:35:05.770 --> 00:35:07.450 a signal and the signal is
NOTE Confidence: 0.910679225

00:35:07.450 --> 00:35:08.570 actually stronger for strokes,
NOTE Confidence: 0.910679225

00:35:08.570 --> 00:35:10.328 and I know that you know,
NOTE Confidence: 0.910679225

00:35:10.330 --> 00:35:11.072 uh, klar,
NOTE Confidence: 0.910679225

00:35:11.072 --> 00:35:12.927 yaggi and Don Bravata have
NOTE Confidence: 0.910679225

00:35:12.927 --> 00:35:14.640 published in stroke as well,
NOTE Confidence: 0.910679225

00:35:14.640 --> 00:35:16.956 showing that the signal is actually

NOTE Confidence: 0.910679225

00:35:16.956 --> 00:35:19.710 stronger in as being able to use

NOTE Confidence: 0.910679225

00:35:19.710 --> 00:35:21.605 plaster pressure therapy and sleep

NOTE Confidence: 0.910679225

00:35:21.605 --> 00:35:24.093 apnea to make a dent there and

NOTE Confidence: 0.910679225

00:35:24.093 --> 00:35:26.734 reduce the risk for having a stroke.

NOTE Confidence: 0.910679225

00:35:26.734 --> 00:35:29.975 Our repeat stroke after Tia A but,

NOTE Confidence: 0.910679225

00:35:29.975 --> 00:35:30.830 but of course,

NOTE Confidence: 0.910679225

00:35:30.830 --> 00:35:33.908 if you don't put that as a primary end point,

NOTE Confidence: 0.910679225

00:35:33.910 --> 00:35:35.527 you know all these secondary in points.

NOTE Confidence: 0.910679225

00:35:35.530 --> 00:35:37.994 It goes a wash even if you had

NOTE Confidence: 0.910679225

00:35:37.994 --> 00:35:40.010 stated that adjusted analysis,

NOTE Confidence: 0.910679225

00:35:40.010 --> 00:35:40.688 our priority,

NOTE Confidence: 0.910679225

00:35:40.688 --> 00:35:42.383 and of course that's why

NOTE Confidence: 0.910679225

00:35:42.383 --> 00:35:43.810 they put sleepiness score,

NOTE Confidence: 0.910679225

00:35:43.810 --> 00:35:44.872 which showed significant

NOTE Confidence: 0.910679225

00:35:44.872 --> 00:35:46.288 improvement in these people.

NOTE Confidence: 0.910679225

00:35:46.290 --> 00:35:49.170 Unlike the study done by Kushida
NOTE Confidence: 0.910679225

00:35:49.170 --> 00:35:51.090 effective CPAP on sleepiness,
NOTE Confidence: 0.910679225

00:35:51.090 --> 00:35:52.746 which was again a negative study,
NOTE Confidence: 0.910679225

00:35:52.750 --> 00:35:54.598 whereas in the same study it
NOTE Confidence: 0.910679225

00:35:54.598 --> 00:35:56.196 showed that sleepiness doesn't need
NOTE Confidence: 0.910679225

00:35:56.196 --> 00:35:58.960 improve and but of course it's.
NOTE Confidence: 0.910679225

00:35:58.960 --> 00:36:01.200 You know if you go use the FDA,
NOTE Confidence: 0.910679225

00:36:01.200 --> 00:36:02.391 you know rubrics.
NOTE Confidence: 0.910679225

00:36:02.391 --> 00:36:04.376 If it's not your primary
NOTE Confidence: 0.910679225

00:36:04.376 --> 00:36:06.129 endpoint or if it's not.
NOTE Confidence: 0.910679225

00:36:06.130 --> 00:36:07.150 If you don't hit your primary
NOTE Confidence: 0.910679225

00:36:07.150 --> 00:36:08.220 end point is a positive.
NOTE Confidence: 0.910679225

00:36:08.220 --> 00:36:10.684 Every other endpoint is out the door.
NOTE Confidence: 0.910679225

00:36:10.690 --> 00:36:11.352 You know,
NOTE Confidence: 0.910679225

00:36:11.352 --> 00:36:14.000 by evidence based medicine and by FDA rules,
NOTE Confidence: 0.910679225

00:36:14.000 --> 00:36:15.725 and so this is nobody

NOTE Confidence: 0.910679225

00:36:15.725 --> 00:36:17.450 speaks about this as much.

NOTE Confidence: 0.910679225

00:36:17.450 --> 00:36:17.964 Because yes,

NOTE Confidence: 0.910679225

00:36:17.964 --> 00:36:20.020 it was a native trial for criminal outcomes,

NOTE Confidence: 0.910679225

00:36:20.020 --> 00:36:23.440 but sleepiness did improve.

NOTE Confidence: 0.910679225

00:36:23.440 --> 00:36:26.160 And hospital anxiety depression scale

NOTE Confidence: 0.910679225

00:36:26.160 --> 00:36:30.129 improved as of 36 in EQ5D as quality

NOTE Confidence: 0.910679225

00:36:30.129 --> 00:36:32.244 of life indicators also improved.

NOTE Confidence: 0.910679225

00:36:32.250 --> 00:36:33.945 But what was very concerning

NOTE Confidence: 0.910679225

00:36:33.945 --> 00:36:36.615 is that in the SAVE trial she

NOTE Confidence: 0.910679225

00:36:36.615 --> 00:36:38.407 knows multi continent study.

NOTE Confidence: 0.910679225

00:36:38.410 --> 00:36:41.740 That adherence was in about

NOTE Confidence: 0.910679225

00:36:41.740 --> 00:36:44.351 2.8 hours or so for the entire

NOTE Confidence: 0.910679225

00:36:44.351 --> 00:36:46.720 group in their treatment arm.

NOTE Confidence: 0.910679225

00:36:46.720 --> 00:36:48.750 2.8 hours. Let's go back to you

NOTE Confidence: 0.910679225

00:36:48.750 --> 00:36:50.529 know whatever it SI Group said.

NOTE Confidence: 0.910679225

00:36:50.530 --> 00:36:53.090 If you don't use drugs.
NOTE Confidence: 0.910679225

00:36:53.090 --> 00:36:54.178 I'm going to help,
NOTE Confidence: 0.910679225

00:36:54.178 --> 00:36:56.828 and so if you don't use a C PAP
NOTE Confidence: 0.910679225

00:36:56.828 --> 00:36:58.408 in intention to treat analysis,
NOTE Confidence: 0.910679225

00:36:58.410 --> 00:36:59.970 we're going to draw a blank.
NOTE Confidence: 0.910679225

00:36:59.970 --> 00:37:01.741 So C pap insurance not only is
NOTE Confidence: 0.910679225

00:37:01.741 --> 00:37:03.229 important for patient centered care,
NOTE Confidence: 0.910679225

00:37:03.230 --> 00:37:06.212 but it's also affecting our ability
NOTE Confidence: 0.910679225

00:37:06.212 --> 00:37:08.714 to develop the scientific body
NOTE Confidence: 0.910679225

00:37:08.714 --> 00:37:11.294 of literature for us to address.
NOTE Confidence: 0.910679225

00:37:11.300 --> 00:37:13.141 And get third party payers to pay
NOTE Confidence: 0.910679225

00:37:13.141 --> 00:37:15.415 for it or be able to give this
NOTE Confidence: 0.910679225

00:37:15.415 --> 00:37:17.098 device to people and so that's
NOTE Confidence: 0.910679225

00:37:17.098 --> 00:37:18.754 where they you know that's why
NOTE Confidence: 0.910679225

00:37:18.754 --> 00:37:20.804 I see Papa John's assumes even
NOTE Confidence: 0.910679225

00:37:20.804 --> 00:37:22.760 more important than you know we.

NOTE Confidence: 0.910679225

00:37:22.760 --> 00:37:24.460 We talked about the service

NOTE Confidence: 0.910679225

00:37:24.460 --> 00:37:26.160 of trial and you know

NOTE Confidence: 0.781634751666667

00:37:26.231 --> 00:37:29.119 there are issues of the Soviets have trial

NOTE Confidence: 0.781634751666667

00:37:29.119 --> 00:37:32.571 which you know skip over here and to go

NOTE Confidence: 0.781634751666667

00:37:32.571 --> 00:37:35.700 to the meta analysis where there was,

NOTE Confidence: 0.781634751666667

00:37:35.700 --> 00:37:38.619 you know compare PAP therapy versus control

NOTE Confidence: 0.781634751666667

00:37:38.619 --> 00:37:40.340 or preventing cardiovascular events.

NOTE Confidence: 0.781634751666667

00:37:40.340 --> 00:37:41.552 Of course this came.

NOTE Confidence: 0.781634751666667

00:37:41.552 --> 00:37:43.370 You know well before the AHRQ

NOTE Confidence: 0.781634751666667

00:37:43.435 --> 00:37:45.285 report and they essentially drew

NOTE Confidence: 0.781634751666667

00:37:45.285 --> 00:37:47.380 the conclusion that there is no,

NOTE Confidence: 0.781634751666667

00:37:47.380 --> 00:37:50.398 you know, benefit to PAP therapy,

NOTE Confidence: 0.781634751666667

00:37:50.400 --> 00:37:52.712 but in the four trials where more than

NOTE Confidence: 0.781634751666667

00:37:52.712 --> 00:37:54.947 four hours of adherence were achieved,

NOTE Confidence: 0.781634751666667

00:37:54.950 --> 00:37:58.184 there was, you know, relative risk reduction,

NOTE Confidence: 0.781634751666667

00:37:58.190 --> 00:38:00.820 42% reduction in relative risk,
NOTE Confidence: 0.781634751666667

00:38:00.820 --> 00:38:02.176 and so, again,
NOTE Confidence: 0.781634751666667

00:38:02.176 --> 00:38:04.888 we cannot cherry pick those studies,
NOTE Confidence: 0.781634751666667

00:38:04.890 --> 00:38:07.438 but some other problems with this meta
NOTE Confidence: 0.781634751666667

00:38:07.438 --> 00:38:10.670 analysis was a heterogeneity of intervention.
NOTE Confidence: 0.781634751666667

00:38:10.670 --> 00:38:11.876 There's a heterogeneity.
NOTE Confidence: 0.781634751666667

00:38:11.876 --> 00:38:14.180 Of population, if you look at pick ATS,
NOTE Confidence: 0.781634751666667

00:38:14.180 --> 00:38:15.990 the event rates were low,
NOTE Confidence: 0.781634751666667

00:38:15.990 --> 00:38:17.334 which the authors themselves
NOTE Confidence: 0.781634751666667

00:38:17.334 --> 00:38:19.350 admitted to and then there was
NOTE Confidence: 0.781634751666667

00:38:19.409 --> 00:38:21.460 undue influence on one of one study.
NOTE Confidence: 0.781634751666667

00:38:21.460 --> 00:38:24.140 Essentially 73% of the three
NOTE Confidence: 0.781634751666667

00:38:24.140 --> 00:38:27.990 or 56 events were in.
NOTE Confidence: 0.781634751666667

00:38:27.990 --> 00:38:28.932 You know studies.
NOTE Confidence: 0.781634751666667

00:38:28.932 --> 00:38:30.502 You know there were contributed
NOTE Confidence: 0.781634751666667

00:38:30.502 --> 00:38:31.810 by the same study.

NOTE Confidence: 0.781634751666667
00:38:31.810 --> 00:38:32.534 So, uh,
NOTE Confidence: 0.781634751666667
00:38:32.534 --> 00:38:34.706 when you do a meta analysis,
NOTE Confidence: 0.781634751666667
00:38:34.710 --> 00:38:36.390 you have to look for a new influence,
NOTE Confidence: 0.781634751666667
00:38:36.390 --> 00:38:38.820 and so unfortunately there was undue
NOTE Confidence: 0.781634751666667
00:38:38.820 --> 00:38:41.864 influence of one study in the outcome of
NOTE Confidence: 0.781634751666667
00:38:41.864 --> 00:38:44.780 this meta analysis and and that is an issue.
NOTE Confidence: 0.781634751666667
00:38:44.780 --> 00:38:47.055 So what is being done about it?
NOTE Confidence: 0.781634751666667
00:38:47.060 --> 00:38:50.380 You know this is a last Cochrane review
NOTE Confidence: 0.781634751666667
00:38:50.380 --> 00:38:53.092 showing that you can do educational
NOTE Confidence: 0.781634751666667
00:38:53.092 --> 00:38:54.448 supportive behavioral interventions.
NOTE Confidence: 0.781634751666667
00:38:54.450 --> 00:38:55.968 You know all three different categories.
NOTE Confidence: 0.781634751666667
00:38:55.970 --> 00:38:56.942 Or the intervention.
NOTE Confidence: 0.781634751666667
00:38:56.942 --> 00:38:58.238 Could you know submit?
NOTE Confidence: 0.781634751666667
00:38:58.240 --> 00:39:01.362 All of these three inside of them can
NOTE Confidence: 0.781634751666667
00:39:01.362 --> 00:39:03.954 indeed improve adherence in these people,
NOTE Confidence: 0.781634751666667

00:39:03.960 --> 00:39:05.732 and but when you,
NOTE Confidence: 0.781634751666667

00:39:05.732 --> 00:39:08.914 when you look at how many there
NOTE Confidence: 0.781634751666667

00:39:08.914 --> 00:39:10.538 are in clinicaltrials.gov that are
NOTE Confidence: 0.781634751666667

00:39:10.538 --> 00:39:12.272 focused on improving, see paper.
NOTE Confidence: 0.781634751666667

00:39:12.272 --> 00:39:14.136 Durance is only 6.
NOTE Confidence: 0.781634751666667

00:39:14.140 --> 00:39:17.036 Yes, we live in an era of medications,
NOTE Confidence: 0.781634751666667

00:39:17.040 --> 00:39:19.240 addressing loop gain, arousal threshold.
NOTE Confidence: 0.781634751666667

00:39:19.240 --> 00:39:23.188 Yeah, have a glass of nerve stimulation.
NOTE Confidence: 0.781634751666667

00:39:23.190 --> 00:39:25.227 No, I don't know uh neck collars,
NOTE Confidence: 0.781634751666667

00:39:25.230 --> 00:39:25.854 you know,
NOTE Confidence: 0.781634751666667

00:39:25.854 --> 00:39:27.726 no sprays that are going to
NOTE Confidence: 0.781634751666667

00:39:27.726 --> 00:39:29.399 be addressing sleep happening,
NOTE Confidence: 0.781634751666667

00:39:29.400 --> 00:39:31.192 but right now when you have a bad
NOTE Confidence: 0.781634751666667

00:39:31.192 --> 00:39:32.430 patient diagnosed with sleep apnea,
NOTE Confidence: 0.781634751666667

00:39:32.430 --> 00:39:34.694 your choices are three which is C pap,
NOTE Confidence: 0.781634751666667

00:39:34.700 --> 00:39:36.920 you know?

NOTE Confidence: 0.781634751666667
00:39:36.920 --> 00:39:37.960 Hypoglossal nerve stimulation story,
NOTE Confidence: 0.781634751666667
00:39:37.960 --> 00:39:39.000 not in that order,
NOTE Confidence: 0.781634751666667
00:39:39.000 --> 00:39:40.488 but dental device and I haven't
NOTE Confidence: 0.781634751666667
00:39:40.488 --> 00:39:41.232 lost in isolation.
NOTE Confidence: 0.781634751666667
00:39:41.240 --> 00:39:44.500 So that is where we are in so right now,
NOTE Confidence: 0.781634751666667
00:39:44.500 --> 00:39:47.286 until all of that data comes to
NOTE Confidence: 0.781634751666667
00:39:47.286 --> 00:39:48.796 the forefront, you know.
NOTE Confidence: 0.781634751666667
00:39:48.796 --> 00:39:51.267 This is still something that is an
NOTE Confidence: 0.781634751666667
00:39:51.267 --> 00:39:53.598 issue that needs to be addressed,
NOTE Confidence: 0.781634751666667
00:39:53.600 --> 00:39:56.127 and so this whole concept of adherence,
NOTE Confidence: 0.781634751666667
00:39:56.130 --> 00:39:58.512 you know in certain fields it's
NOTE Confidence: 0.781634751666667
00:39:58.512 --> 00:40:00.660 not transposable to other fields.
NOTE Confidence: 0.781634751666667
00:40:00.660 --> 00:40:02.207 You know this is actually a work
NOTE Confidence: 0.781634751666667
00:40:02.207 --> 00:40:03.909 done by Lynn Gerald in our group.
NOTE Confidence: 0.781634751666667
00:40:03.910 --> 00:40:06.745 Here you know she did a large
NOTE Confidence: 0.781634751666667

00:40:06.745 --> 00:40:08.910 trial in children in Tucson,
NOTE Confidence: 0.781634751666667

00:40:08.910 --> 00:40:11.430 AZ and try to see what was the
NOTE Confidence: 0.781634751666667

00:40:11.430 --> 00:40:13.039 relationship between asthma control on
NOTE Confidence: 0.781634751666667

00:40:13.039 --> 00:40:15.659 the Y axis and adherence to the X axes,
NOTE Confidence: 0.781634751666667

00:40:15.660 --> 00:40:17.646 and she found there's no relationship.
NOTE Confidence: 0.781634751666667

00:40:17.650 --> 00:40:19.274 You know, the more adherent they are.
NOTE Confidence: 0.781634751666667

00:40:19.280 --> 00:40:21.050 Yes, well control in a questionnaire.
NOTE Confidence: 0.781634751666667

00:40:21.050 --> 00:40:22.334 Symptomatology was similar.
NOTE Confidence: 0.781634751666667

00:40:22.334 --> 00:40:22.762 Uhm,
NOTE Confidence: 0.781634751666667

00:40:22.762 --> 00:40:24.902 that's probably because you know
NOTE Confidence: 0.781634751666667

00:40:24.902 --> 00:40:27.068 the more severe asthmatics are gonna
NOTE Confidence: 0.781634751666667

00:40:27.068 --> 00:40:29.223 be taking more of the medications
NOTE Confidence: 0.781634751666667

00:40:29.223 --> 00:40:30.477 and vice versa,
NOTE Confidence: 0.901884175

00:40:30.480 --> 00:40:32.640 and it may even itself out.
NOTE Confidence: 0.901884175

00:40:32.640 --> 00:40:35.160 But in sleep, you know this is in a really
NOTE Confidence: 0.901884175

00:40:35.220 --> 00:40:37.676 nice paper and work done by Terry Beaver.

NOTE Confidence: 0.901884175

00:40:37.680 --> 00:40:39.984 But of course, I'm citing a review article

NOTE Confidence: 0.901884175

00:40:39.990 --> 00:40:42.195 showing that there is a dose effect you know,

NOTE Confidence: 0.901884175

00:40:42.200 --> 00:40:44.856 between you know in within C PAP use,

NOTE Confidence: 0.901884175

00:40:44.860 --> 00:40:47.020 and there's a some of them flatten out.

NOTE Confidence: 0.901884175

00:40:47.020 --> 00:40:49.986 Some of them seem to be going up, and so.

NOTE Confidence: 0.901884175

00:40:49.986 --> 00:40:52.527 And they don't show a flattening of

NOTE Confidence: 0.901884175

00:40:52.527 --> 00:40:54.515 that curve, suggesting that there

NOTE Confidence: 0.901884175

00:40:54.515 --> 00:40:56.705 is indeed a continuous dose effect.

NOTE Confidence: 0.901884175

00:40:56.710 --> 00:40:59.610 So more is indeed better in

NOTE Confidence: 0.901884175

00:40:59.610 --> 00:41:02.850 the field of C PAP therapy.

NOTE Confidence: 0.901884175

00:41:02.850 --> 00:41:05.748 And so apologies for that and so

NOTE Confidence: 0.901884175

00:41:05.748 --> 00:41:10.820 there is data showing that, UM.

NOTE Confidence: 0.901884175

00:41:10.820 --> 00:41:12.146 Cognitive behavioral therapy

NOTE Confidence: 0.901884175

00:41:12.146 --> 00:41:13.914 has a pretty strong,

NOTE Confidence: 0.901884175

00:41:13.920 --> 00:41:16.560 powerful effect as in the study,

NOTE Confidence: 0.901884175

00:41:16.560 --> 00:41:21.340 but the problem is is that you know there are
NOTE Confidence: 0.901884175

00:41:21.340 --> 00:41:23.460 small studies and they're not well powered,
NOTE Confidence: 0.901884175

00:41:23.460 --> 00:41:26.192 so more needs to be done along those lines.
NOTE Confidence: 0.901884175

00:41:26.192 --> 00:41:28.112 So I'm going to flashback to the
NOTE Confidence: 0.901884175

00:41:28.112 --> 00:41:29.659 first slide I showed you in terms
NOTE Confidence: 0.901884175

00:41:29.659 --> 00:41:31.420 of C pepper and some problem.
NOTE Confidence: 0.901884175

00:41:31.420 --> 00:41:33.400 It's actually much higher than what's
NOTE Confidence: 0.901884175

00:41:33.400 --> 00:41:35.200 the estimated by certain studies,
NOTE Confidence: 0.901884175

00:41:35.200 --> 00:41:37.856 and if you look at randomized control trials,
NOTE Confidence: 0.901884175

00:41:37.860 --> 00:41:39.900 the proportion is actually worse.
NOTE Confidence: 0.901884175

00:41:39.900 --> 00:41:41.300 In the real world studies,
NOTE Confidence: 0.901884175

00:41:41.300 --> 00:41:41.558 actually,
NOTE Confidence: 0.901884175

00:41:41.558 --> 00:41:43.880 if you take the acts and look at them,
NOTE Confidence: 0.901884175

00:41:43.880 --> 00:41:46.470 the audience in the treatment
NOTE Confidence: 0.901884175

00:41:46.470 --> 00:41:50.370 arm is actually worse than 47%.
NOTE Confidence: 0.901884175

00:41:50.370 --> 00:41:52.660 Here 53% are non Indian,

NOTE Confidence: 0.901884175

00:41:52.660 --> 00:41:54.412 47% are different and it's actually

NOTE Confidence: 0.901884175

00:41:54.412 --> 00:41:56.466 worse in in in clinical trials if

NOTE Confidence: 0.901884175

00:41:56.466 --> 00:41:58.751 you do it as a meta analysis and

NOTE Confidence: 0.901884175

00:41:58.751 --> 00:42:00.545 that's been published by folks in

NOTE Confidence: 0.901884175

00:42:00.545 --> 00:42:02.390 EMT who want to push for why you

NOTE Confidence: 0.901884175

00:42:02.390 --> 00:42:03.620 know people should be getting,

NOTE Confidence: 0.901884175

00:42:03.620 --> 00:42:06.284 you know up every surgeries or

NOTE Confidence: 0.901884175

00:42:06.284 --> 00:42:07.616 hypoglossal nerve stimulation.

NOTE Confidence: 0.901884175

00:42:07.620 --> 00:42:10.728 But then you take the ZIP code.

NOTE Confidence: 0.901884175

00:42:10.730 --> 00:42:12.613 To which the CPAP devices are Geo

NOTE Confidence: 0.901884175

00:42:12.613 --> 00:42:14.584 link and you plug in their median

NOTE Confidence: 0.901884175

00:42:14.584 --> 00:42:17.140 income of the ZIP code you see a huge

NOTE Confidence: 0.901884175

00:42:17.140 --> 00:42:18.826 health disparity and you know you

NOTE Confidence: 0.901884175

00:42:18.826 --> 00:42:21.838 see that as you go up on the median

NOTE Confidence: 0.901884175

00:42:21.838 --> 00:42:23.828 income quartile from one to four.

NOTE Confidence: 0.901884175

00:42:23.830 --> 00:42:25.654 A lot of people have shown this data,
NOTE Confidence: 0.901884175

00:42:25.660 --> 00:42:27.548 you know Jesse Baker,
NOTE Confidence: 0.901884175

00:42:27.548 --> 00:42:31.290 and has shown this in New Zealand.
NOTE Confidence: 0.901884175

00:42:31.290 --> 00:42:33.250 Pepper and company are showing
NOTE Confidence: 0.901884175

00:42:33.250 --> 00:42:36.260 that in the home PAP study UM and
NOTE Confidence: 0.901884175

00:42:36.260 --> 00:42:38.204 and so this is not novel.
NOTE Confidence: 0.901884175

00:42:38.210 --> 00:42:39.486 What we had done.
NOTE Confidence: 0.901884175

00:42:39.486 --> 00:42:41.970 But it was database which was nationally
NOTE Confidence: 0.901884175

00:42:41.970 --> 00:42:44.982 representative and we're able to actually
NOTE Confidence: 0.901884175

00:42:44.982 --> 00:42:47.528 see the socioeconomic data and show
NOTE Confidence: 0.901884175

00:42:47.528 --> 00:42:49.604 step changes in adherence across this.
NOTE Confidence: 0.901884175

00:42:49.610 --> 00:42:51.044 And this is very relevant because
NOTE Confidence: 0.901884175

00:42:51.044 --> 00:42:52.993 we live in a time where there's
NOTE Confidence: 0.901884175

00:42:52.993 --> 00:42:54.553 more recognition of how this
NOTE Confidence: 0.901884175

00:42:54.553 --> 00:42:56.169 Paris during the covid pandemic,
NOTE Confidence: 0.901884175

00:42:56.170 --> 00:42:58.798 how it disproportionately effects

NOTE Confidence: 0.901884175

00:42:58.800 --> 00:43:01.656 communities in the lower SES and therefore.

NOTE Confidence: 0.901884175

00:43:01.660 --> 00:43:03.746 You know we need to do more,

NOTE Confidence: 0.901884175

00:43:03.750 --> 00:43:05.726 and so that's the reason why we went

NOTE Confidence: 0.901884175

00:43:05.726 --> 00:43:07.493 with a patient centered approach

NOTE Confidence: 0.901884175

00:43:07.493 --> 00:43:09.274 and doing behavioral support,

NOTE Confidence: 0.901884175

00:43:09.274 --> 00:43:12.196 which is focused on promoting stuff,

NOTE Confidence: 0.901884175

00:43:12.200 --> 00:43:12.816 efficacy,

NOTE Confidence: 0.901884175

00:43:12.816 --> 00:43:15.896 promoting outcome expectancies and risk

NOTE Confidence: 0.901884175

00:43:15.896 --> 00:43:19.369 perception and also activating the patient.

NOTE Confidence: 0.901884175

00:43:19.370 --> 00:43:21.674 Being able to actually make them

NOTE Confidence: 0.901884175

00:43:21.674 --> 00:43:24.159 take charge of their health care,

NOTE Confidence: 0.901884175

00:43:24.160 --> 00:43:26.230 combine them with the patient

NOTE Confidence: 0.901884175

00:43:26.230 --> 00:43:29.552 who's naive to the PAP therapy and

NOTE Confidence: 0.901884175

00:43:29.552 --> 00:43:31.888 user interactive voice response.

NOTE Confidence: 0.901884175

00:43:31.890 --> 00:43:33.744 Because I can tell you that

NOTE Confidence: 0.901884175

00:43:33.744 --> 00:43:34.980 the lowest paid employee
NOTE Confidence: 0.862900151052632

00:43:35.048 --> 00:43:37.272 in our sleep centers are always at the
NOTE Confidence: 0.862900151052632

00:43:37.272 --> 00:43:40.526 tip of the spear, they are incoming.
NOTE Confidence: 0.862900151052632

00:43:40.530 --> 00:43:42.465 All kinds of calls that are coming to them.
NOTE Confidence: 0.862900151052632

00:43:42.470 --> 00:43:44.120 So what we have adopted
NOTE Confidence: 0.862900151052632

00:43:44.120 --> 00:43:45.770 in this is I interact.
NOTE Confidence: 0.862900151052632

00:43:45.770 --> 00:43:49.340 Voice response approach that it actually
NOTE Confidence: 0.862900151052632

00:43:49.340 --> 00:43:51.236 distribute those calls to the respective
NOTE Confidence: 0.862900151052632

00:43:51.236 --> 00:43:53.213 person based on an algorithm through
NOTE Confidence: 0.862900151052632

00:43:53.213 --> 00:43:55.502 what the patient says that they want.
NOTE Confidence: 0.862900151052632

00:43:55.510 --> 00:43:57.328 So it'll go to resperate happens.
NOTE Confidence: 0.862900151052632

00:43:57.330 --> 00:43:58.470 It's a question about our ASP.
NOTE Confidence: 0.862900151052632

00:43:58.470 --> 00:44:01.350 It'll go to a nurse if it's about nasal
NOTE Confidence: 0.862900151052632

00:44:01.350 --> 00:44:03.788 congestion, it'll go to a support person.
NOTE Confidence: 0.862900151052632

00:44:03.790 --> 00:44:06.062 NYC where so and so we did this
NOTE Confidence: 0.862900151052632

00:44:06.062 --> 00:44:06.958 research differently, right?

NOTE Confidence: 0.862900151052632
00:44:06.958 --> 00:44:09.450 A lot of times we listen to a talk.
NOTE Confidence: 0.862900151052632
00:44:09.450 --> 00:44:11.510 We get a spark in our brain and say, oh,
NOTE Confidence: 0.862900151052632
00:44:11.510 --> 00:44:13.310 you know what I'm going to actually go study
NOTE Confidence: 0.862900151052632
00:44:13.359 --> 00:44:14.983 that that's not how the study was done.
NOTE Confidence: 0.862900151052632
00:44:14.990 --> 00:44:16.921 This is peak worries methodology, which
NOTE Confidence: 0.862900151052632
00:44:16.921 --> 00:44:19.076 is essentially research done differently.
NOTE Confidence: 0.862900151052632
00:44:19.080 --> 00:44:20.550 Where we actually said, OK,
NOTE Confidence: 0.862900151052632
00:44:20.550 --> 00:44:22.278 what is the burning issue in
NOTE Confidence: 0.862900151052632
00:44:22.278 --> 00:44:23.430 the sleep apnea field?
NOTE Confidence: 0.862900151052632
00:44:23.430 --> 00:44:25.008 Let's get all of these stakeholders,
NOTE Confidence: 0.862900151052632
00:44:25.010 --> 00:44:26.942 purchasers, payers principle investigators,
NOTE Confidence: 0.862900151052632
00:44:26.942 --> 00:44:29.357 the ASM American Sleep Apnea
NOTE Confidence: 0.862900151052632
00:44:29.357 --> 00:44:31.607 Association is a patient public
NOTE Confidence: 0.862900151052632
00:44:31.607 --> 00:44:32.888 advocacy organization providers,
NOTE Confidence: 0.862900151052632
00:44:32.890 --> 00:44:34.526 various kinds of providers.
NOTE Confidence: 0.862900151052632

00:44:34.526 --> 00:44:36.980 And patients and we brought them
NOTE Confidence: 0.862900151052632

00:44:37.052 --> 00:44:38.854 together and said, you know,
NOTE Confidence: 0.862900151052632

00:44:38.854 --> 00:44:40.576 how would you design this study?
NOTE Confidence: 0.862900151052632

00:44:40.580 --> 00:44:42.246 What are the outcomes that are important?
NOTE Confidence: 0.862900151052632

00:44:42.250 --> 00:44:43.888 How would you rank these outcomes
NOTE Confidence: 0.862900151052632

00:44:43.888 --> 00:44:44.707 and guess what?
NOTE Confidence: 0.862900151052632

00:44:44.710 --> 00:44:45.950 They ranked as number one.
NOTE Confidence: 0.862900151052632

00:44:45.950 --> 00:44:47.545 They ranked as global patient
NOTE Confidence: 0.862900151052632

00:44:47.545 --> 00:44:49.390 satisfaction of care dollars number one.
NOTE Confidence: 0.862900151052632

00:44:49.390 --> 00:44:51.826 And there was concordance amongst the
NOTE Confidence: 0.862900151052632

00:44:51.826 --> 00:44:53.837 various stakeholders that they agreed
NOTE Confidence: 0.862900151052632

00:44:53.837 --> 00:44:56.112 that this would actually be a top
NOTE Confidence: 0.862900151052632

00:44:56.112 --> 00:44:57.508 priority because patients are smart.
NOTE Confidence: 0.862900151052632

00:44:57.508 --> 00:44:59.623 They know when they got good care and
NOTE Confidence: 0.862900151052632

00:44:59.623 --> 00:45:01.574 when they didn't get good care and so
NOTE Confidence: 0.862900151052632

00:45:01.574 --> 00:45:03.513 we can come up with weird metrics.

NOTE Confidence: 0.862900151052632
00:45:03.520 --> 00:45:05.524 But global patient satisfaction.
NOTE Confidence: 0.862900151052632
00:45:05.524 --> 00:45:07.528 Emerged as our metric.
NOTE Confidence: 0.862900151052632
00:45:07.530 --> 00:45:09.245 And and then we got this what
NOTE Confidence: 0.862900151052632
00:45:09.245 --> 00:45:10.879 we call non binding input.
NOTE Confidence: 0.862900151052632
00:45:10.880 --> 00:45:13.040 You know if you're bidding for a home,
NOTE Confidence: 0.862900151052632
00:45:13.040 --> 00:45:15.500 you know you're on the hook.
NOTE Confidence: 0.862900151052632
00:45:15.500 --> 00:45:16.760 You know if they say you need
NOTE Confidence: 0.862900151052632
00:45:16.760 --> 00:45:17.700 to fix that shingle,
NOTE Confidence: 0.862900151052632
00:45:17.700 --> 00:45:18.558 you need to fix the shingle,
NOTE Confidence: 0.862900151052632
00:45:18.560 --> 00:45:20.318 otherwise you can't sell the home,
NOTE Confidence: 0.862900151052632
00:45:20.320 --> 00:45:21.481 whereas that's binding.
NOTE Confidence: 0.862900151052632
00:45:21.481 --> 00:45:24.190 Whereas here this is non binding input
NOTE Confidence: 0.862900151052632
00:45:24.256 --> 00:45:26.380 so we got seems Innovation Center.
NOTE Confidence: 0.862900151052632
00:45:26.380 --> 00:45:30.178 We got United Healthcare medical directors,
NOTE Confidence: 0.862900151052632
00:45:30.180 --> 00:45:34.275 you know of Aetna and everybody on
NOTE Confidence: 0.862900151052632

00:45:34.280 --> 00:45:37.824 as you know pairs to get their input.
NOTE Confidence: 0.862900151052632

00:45:37.830 --> 00:45:39.202 And they could give input without having
NOTE Confidence: 0.862900151052632

00:45:39.202 --> 00:45:40.989 to buy the product at the end of the day,
NOTE Confidence: 0.862900151052632

00:45:40.990 --> 00:45:42.369 they don't have to buy the product
NOTE Confidence: 0.862900151052632

00:45:42.369 --> 00:45:44.037 and so and again we got input from
NOTE Confidence: 0.862900151052632

00:45:44.037 --> 00:45:45.550 then and the conduct of the study.
NOTE Confidence: 0.862900151052632

00:45:45.550 --> 00:45:47.720 How we can actually do better recruitment
NOTE Confidence: 0.862900151052632

00:45:47.720 --> 00:45:50.845 as well as how we could do a better job
NOTE Confidence: 0.862900151052632

00:45:50.845 --> 00:45:52.720 with dissemination and implementation.
NOTE Confidence: 0.862900151052632

00:45:52.720 --> 00:45:55.488 And you know this is a study that
NOTE Confidence: 0.862900151052632

00:45:55.488 --> 00:45:57.868 was powered for about 260 people that
NOTE Confidence: 0.862900151052632

00:45:57.868 --> 00:46:00.010 were randomized to these two arms and
NOTE Confidence: 0.862900151052632

00:46:00.077 --> 00:46:01.913 there was an attention control arm
NOTE Confidence: 0.862900151052632

00:46:01.913 --> 00:46:04.536 besides the PD IVR which called Pure
NOTE Confidence: 0.862900151052632

00:46:04.536 --> 00:46:06.312 driven intervention with interactive
NOTE Confidence: 0.862900151052632

00:46:06.312 --> 00:46:08.772 voice response as compared to.

NOTE Confidence: 0.862900151052632
00:46:08.772 --> 00:46:09.820 Attention control,
NOTE Confidence: 0.862900151052632
00:46:09.820 --> 00:46:11.720 and when we randomize them,
NOTE Confidence: 0.862900151052632
00:46:11.720 --> 00:46:14.696 we found that global patient satisfaction
NOTE Confidence: 0.862900151052632
00:46:14.696 --> 00:46:17.689 was better in the PDI VR arm.
NOTE Confidence: 0.870222237333333
00:46:17.690 --> 00:46:19.906 You know we can have a discussion as
NOTE Confidence: 0.870222237333333
00:46:19.906 --> 00:46:22.268 to how significant that is or not.
NOTE Confidence: 0.870222237333333
00:46:22.270 --> 00:46:24.763 And this is the table that goes with that.
NOTE Confidence: 0.870222237333333
00:46:24.770 --> 00:46:27.850 But the C5 adherence data was actually,
NOTE Confidence: 0.870222237333333
00:46:27.850 --> 00:46:28.930 you know, better. Again,
NOTE Confidence: 0.870222237333333
00:46:28.930 --> 00:46:31.188 in terms of minutes you spend night or
NOTE Confidence: 0.870222237333333
00:46:31.188 --> 00:46:33.246 partial nights used greater than four hours.
NOTE Confidence: 0.870222237333333
00:46:33.250 --> 00:46:36.292 And again, lot of you know 50 minutes mean
NOTE Confidence: 0.870222237333333
00:46:36.292 --> 00:46:39.286 you know it's 50 minutes mean anything.
NOTE Confidence: 0.870222237333333
00:46:39.290 --> 00:46:40.688 And so that's why we looked
NOTE Confidence: 0.870222237333333
00:46:40.688 --> 00:46:41.970 at number needed to treat.
NOTE Confidence: 0.870222237333333

00:46:41.970 --> 00:46:43.524 In other words, what we looked at.
NOTE Confidence: 0.870222237333333

00:46:43.530 --> 00:46:45.396 The outcome was how many people
NOTE Confidence: 0.870222237333333

00:46:45.396 --> 00:46:48.267 did you need to treat with a peer
NOTE Confidence: 0.870222237333333

00:46:48.267 --> 00:46:50.217 driven intervention to prevent one
NOTE Confidence: 0.870222237333333

00:46:50.217 --> 00:46:52.399 person from losing CPAP benefits?
NOTE Confidence: 0.870222237333333

00:46:52.400 --> 00:46:53.312 In other words,
NOTE Confidence: 0.870222237333333

00:46:53.312 --> 00:46:55.440 but one person that did not meet
NOTE Confidence: 0.870222237333333

00:46:55.505 --> 00:46:57.645 the Medicare CMS 4 hour rule and
NOTE Confidence: 0.870222237333333

00:46:57.645 --> 00:46:59.470 therefore would have lost their
NOTE Confidence: 0.870222237333333

00:46:59.470 --> 00:47:02.040 CPAP benefit as a result of that.
NOTE Confidence: 0.870222237333333

00:47:02.040 --> 00:47:05.019 So we found that at the NT was nine.
NOTE Confidence: 0.870222237333333

00:47:05.020 --> 00:47:06.090 So if you actually ran,
NOTE Confidence: 0.870222237333333

00:47:06.090 --> 00:47:09.564 you know treated nine people with its PDI VR.
NOTE Confidence: 0.870222237333333

00:47:09.570 --> 00:47:11.514 You prevent one person from outright
NOTE Confidence: 0.870222237333333

00:47:11.514 --> 00:47:13.800 losing the C PAP therapy device,
NOTE Confidence: 0.870222237333333

00:47:13.800 --> 00:47:15.912 and so we thought that that

NOTE Confidence: 0.870222237333333
00:47:15.912 --> 00:47:17.761 was significant and and.
NOTE Confidence: 0.870222237333333
00:47:17.761 --> 00:47:20.743 And also we looked at measures
NOTE Confidence: 0.870222237333333
00:47:20.743 --> 00:47:22.989 of care coordination.
NOTE Confidence: 0.870222237333333
00:47:22.990 --> 00:47:25.265 And health care services and delivery and
NOTE Confidence: 0.870222237333333
00:47:25.265 --> 00:47:27.898 found that it was superior in this group,
NOTE Confidence: 0.870222237333333
00:47:27.900 --> 00:47:29.922 so I'm going to just touch
NOTE Confidence: 0.870222237333333
00:47:29.922 --> 00:47:30.933 upon technology assessments.
NOTE Confidence: 0.870222237333333
00:47:30.940 --> 00:47:35.770 UM, and I know I'm short of time, but.
NOTE Confidence: 0.870222237333333
00:47:35.770 --> 00:47:36.169 Uh,
NOTE Confidence: 0.870222237333333
00:47:36.169 --> 00:47:36.967 you know,
NOTE Confidence: 0.870222237333333
00:47:36.967 --> 00:47:39.361 know your device auto CPAP therapy
NOTE Confidence: 0.870222237333333
00:47:39.361 --> 00:47:41.830 devices or perform very differently.
NOTE Confidence: 0.870222237333333
00:47:41.830 --> 00:47:43.692 You know we have issues with the
NOTE Confidence: 0.870222237333333
00:47:43.692 --> 00:47:44.750 device recalls right now,
NOTE Confidence: 0.870222237333333
00:47:44.750 --> 00:47:46.358 but their performance is also very
NOTE Confidence: 0.870222237333333

00:47:46.358 --> 00:47:46.626 differently.
NOTE Confidence: 0.870222237333333
00:47:46.630 --> 00:47:48.296 Is a bench studies that we've done
NOTE Confidence: 0.870222237333333
00:47:48.296 --> 00:47:49.690 in the past during that,
NOTE Confidence: 0.870222237333333
00:47:49.690 --> 00:47:52.616 given the same set of conditions with
NOTE Confidence: 0.870222237333333
00:47:52.616 --> 00:47:55.192 a Starling resistor and resistor on
NOTE Confidence: 0.870222237333333
00:47:55.192 --> 00:47:57.682 a bench model with artificial lung,
NOTE Confidence: 0.870222237333333
00:47:57.690 --> 00:47:59.940 and that these devices perform
NOTE Confidence: 0.870222237333333
00:47:59.940 --> 00:48:01.630 differently and that air leak
NOTE Confidence: 0.870222237333333
00:48:01.630 --> 00:48:03.996 is a big issue with how they
NOTE Confidence: 0.870222237333333
00:48:03.996 --> 00:48:06.136 function or not function and.
NOTE Confidence: 0.870222237333333
00:48:06.140 --> 00:48:08.261 We showed that in both the bench
NOTE Confidence: 0.870222237333333
00:48:08.261 --> 00:48:10.522 model as well as when we did a
NOTE Confidence: 0.870222237333333
00:48:10.522 --> 00:48:12.250 human study and looking at idea
NOTE Confidence: 0.870222237333333
00:48:12.315 --> 00:48:14.468 in an Indian patients not with
NOTE Confidence: 0.870222237333333
00:48:14.468 --> 00:48:16.488 this level of sophistication that
NOTE Confidence: 0.870222237333333
00:48:16.488 --> 00:48:19.103 you know Andre is injected with

NOTE Confidence: 0.870222237333333

00:48:19.103 --> 00:48:21.318 your arousal thresholds and such.

NOTE Confidence: 0.870222237333333

00:48:21.320 --> 00:48:23.441 And we found that you know air

NOTE Confidence: 0.870222237333333

00:48:23.441 --> 00:48:25.280 leak was higher in the group.

NOTE Confidence: 0.870222237333333

00:48:25.280 --> 00:48:26.936 There was non adhering to supposed

NOTE Confidence: 0.870222237333333

00:48:26.936 --> 00:48:29.177 to adhere and so you know having

NOTE Confidence: 0.870222237333333

00:48:29.177 --> 00:48:31.830 a good mask fit is important and

NOTE Confidence: 0.870222237333333

00:48:31.909 --> 00:48:33.709 addressing that is important

NOTE Confidence: 0.870222237333333

00:48:33.709 --> 00:48:36.409 and I know I'm preaching to.

NOTE Confidence: 0.870222237333333

00:48:36.410 --> 00:48:39.078 Group that knows this.

NOTE Confidence: 0.870222237333333

00:48:39.080 --> 00:48:39.524 You know,

NOTE Confidence: 0.870222237333333

00:48:39.524 --> 00:48:40.856 by the back of their hand,

NOTE Confidence: 0.870222237333333

00:48:40.860 --> 00:48:42.956 so you know there are data out there,

NOTE Confidence: 0.870222237333333

00:48:42.960 --> 00:48:44.510 even though it analysts were

NOTE Confidence: 0.870222237333333

00:48:44.510 --> 00:48:46.060 not supportive that he did.

NOTE Confidence: 0.870222237333333

00:48:46.060 --> 00:48:47.990 Humidifiers reduce our effects provided

NOTE Confidence: 0.870222237333333

00:48:47.990 --> 00:48:50.470 urine's as well as nasal pillows.
NOTE Confidence: 0.870222237333333

00:48:50.470 --> 00:48:51.658 But there are so you know,
NOTE Confidence: 0.870222237333333

00:48:51.660 --> 00:48:53.466 single studies that are out there.
NOTE Confidence: 0.870222237333333

00:48:53.470 --> 00:48:56.094 Although they didn't make up up to
NOTE Confidence: 0.870222237333333

00:48:56.094 --> 00:48:58.518 a measurable level in meta analysis
NOTE Confidence: 0.870222237333333

00:48:58.518 --> 00:49:01.350 and this is work done my route,
NOTE Confidence: 0.870222237333333

00:49:01.350 --> 00:49:02.166 you know Buddy Roger,
NOTE Confidence: 0.870222237333333

00:49:02.166 --> 00:49:04.079 who who was you know who's in Harvard Nam,
NOTE Confidence: 0.870222237333333

00:49:04.080 --> 00:49:06.663 but you know was that you know
NOTE Confidence: 0.870222237333333

00:49:06.663 --> 00:49:09.568 to sign in at the uofa before.
NOTE Confidence: 0.870222237333333

00:49:09.570 --> 00:49:10.656 Where he showed that you know,
NOTE Confidence: 0.663960366666667

00:49:10.660 --> 00:49:12.988 early CPAP use predicted subsequent years.
NOTE Confidence: 0.663960366666667

00:49:12.990 --> 00:49:14.330 Why is that important?
NOTE Confidence: 0.663960366666667

00:49:14.330 --> 00:49:15.670 Because identifying those early
NOTE Confidence: 0.663960366666667

00:49:15.670 --> 00:49:17.936 CPAP non ideers that's when you can
NOTE Confidence: 0.663960366666667

00:49:17.936 --> 00:49:19.872 bring in your limited resources like

NOTE Confidence: 0.663960366666667

00:49:19.872 --> 00:49:21.882 appear to intervention into play or

NOTE Confidence: 0.663960366666667

00:49:21.882 --> 00:49:23.886 any other intervention that you have

NOTE Confidence: 0.663960366666667

00:49:23.886 --> 00:49:25.935 into play so that you can actually

NOTE Confidence: 0.663960366666667

00:49:25.935 --> 00:49:27.701 change the trajectory of non adherence

NOTE Confidence: 0.663960366666667

00:49:27.701 --> 00:49:29.675 as opposed to giving everybody that

NOTE Confidence: 0.663960366666667

00:49:29.675 --> 00:49:31.710 resource which is finite and limited.

NOTE Confidence: 0.663960366666667

00:49:31.710 --> 00:49:33.528 You'd be able to see how they do in

NOTE Confidence: 0.663960366666667

00:49:33.528 --> 00:49:35.907 the first seven days of adherence and

NOTE Confidence: 0.663960366666667

00:49:35.907 --> 00:49:37.652 bring that particular intervention into

NOTE Confidence: 0.663960366666667

00:49:37.652 --> 00:49:39.868 play and that's why that predictor of CPAP.

NOTE Confidence: 0.663960366666667

00:49:39.870 --> 00:49:42.254 Non adherence or adherence

NOTE Confidence: 0.663960366666667

00:49:42.254 --> 00:49:44.638 becomes relevant and important.

NOTE Confidence: 0.663960366666667

00:49:44.640 --> 00:49:47.986 I'm going to skip some slides here.

NOTE Confidence: 0.663960366666667

00:49:47.990 --> 00:49:49.859 Uh. And sorry,

NOTE Confidence: 0.663960366666667

00:49:49.859 --> 00:49:54.220 I just wanna make sure I come,

NOTE Confidence: 0.663960366666667

00:49:54.220 --> 00:49:56.418 you know, give some time but end
NOTE Confidence: 0.663960366666667

00:49:56.418 --> 00:49:58.060 with these couple of slides.
NOTE Confidence: 0.663960366666667

00:49:58.060 --> 00:49:59.842 What is was disappointing when we
NOTE Confidence: 0.663960366666667

00:49:59.842 --> 00:50:02.142 looked at ZIP code based median income
NOTE Confidence: 0.663960366666667

00:50:02.142 --> 00:50:04.236 quartile based non adherence is that
NOTE Confidence: 0.663960366666667

00:50:04.236 --> 00:50:06.382 when we looked at you know and this
NOTE Confidence: 0.663960366666667

00:50:06.382 --> 00:50:08.220 is about 170,000 people going back
NOTE Confidence: 0.663960366666667

00:50:08.220 --> 00:50:10.890 about 17 years and when we looked at
NOTE Confidence: 0.663960366666667

00:50:10.890 --> 00:50:13.258 them we found that when you put them
NOTE Confidence: 0.663960366666667

00:50:13.330 --> 00:50:16.039 in quartiles the people are the lowest
NOTE Confidence: 0.663960366666667

00:50:16.039 --> 00:50:19.304 income quartile which is the blue symbol.
NOTE Confidence: 0.663960366666667

00:50:19.304 --> 00:50:19.830 Uhm,
NOTE Confidence: 0.663960366666667

00:50:19.830 --> 00:50:21.396 continue to lag behind the others
NOTE Confidence: 0.663960366666667

00:50:21.396 --> 00:50:23.355 and you can see that between the
NOTE Confidence: 0.663960366666667

00:50:23.355 --> 00:50:25.077 3rd and the 4th income quartile
NOTE Confidence: 0.663960366666667

00:50:25.077 --> 00:50:26.489 there is a steep drop off.

NOTE Confidence: 0.663960366666667
00:50:26.490 --> 00:50:28.430 It's almost like a hemoglobin
NOTE Confidence: 0.663960366666667
00:50:28.430 --> 00:50:29.982 dissociation curve or something,
NOTE Confidence: 0.663960366666667
00:50:29.990 --> 00:50:31.458 and the shoulder and,
NOTE Confidence: 0.663960366666667
00:50:31.458 --> 00:50:34.075 and I think that's about the time
NOTE Confidence: 0.663960366666667
00:50:34.075 --> 00:50:36.441 that out of pocket pay and expenses
NOTE Confidence: 0.663960366666667
00:50:36.441 --> 00:50:39.556 to be able to buy a mask that works
NOTE Confidence: 0.663960366666667
00:50:39.556 --> 00:50:41.466 for them becomes a factor for them.
NOTE Confidence: 0.663960366666667
00:50:41.466 --> 00:50:42.810 And people are picking and choosing
NOTE Confidence: 0.663960366666667
00:50:42.859 --> 00:50:44.155 us whether they're going to pay
NOTE Confidence: 0.663960366666667
00:50:44.155 --> 00:50:45.440 copay on their blood pressure,
NOTE Confidence: 0.663960366666667
00:50:45.440 --> 00:50:46.994 medications, heart failure,
NOTE Confidence: 0.663960366666667
00:50:46.994 --> 00:50:49.370 medications, and diabetes medications.
NOTE Confidence: 0.663960366666667
00:50:49.370 --> 00:50:52.050 Our father CPAP device,
NOTE Confidence: 0.663960366666667
00:50:52.050 --> 00:50:54.600 which has been withheld from them
NOTE Confidence: 0.663960366666667
00:50:54.600 --> 00:50:56.938 for nonadherence and So what is
NOTE Confidence: 0.663960366666667

00:50:56.938 --> 00:50:58.798 was doubly disappointing that the
NOTE Confidence: 0.663960366666667

00:50:58.798 --> 00:51:00.592 Affordable Care Act and Medicaid
NOTE Confidence: 0.663960366666667

00:51:00.592 --> 00:51:03.648 expansion in the year 2014 had made
NOTE Confidence: 0.663960366666667

00:51:03.648 --> 00:51:06.049 no dense in health disparities.
NOTE Confidence: 0.663960366666667

00:51:06.049 --> 00:51:09.484 So this is still an area that requires
NOTE Confidence: 0.663960366666667

00:51:09.484 --> 00:51:12.166 study and interventions to address that,
NOTE Confidence: 0.663960366666667

00:51:12.170 --> 00:51:14.346 and when we you know in this particular
NOTE Confidence: 0.663960366666667

00:51:14.346 --> 00:51:16.809 graph and you zoom in when you look at
NOTE Confidence: 0.663960366666667

00:51:16.809 --> 00:51:18.800 these quartiles and you do a Kaplan
NOTE Confidence: 0.663960366666667

00:51:18.800 --> 00:51:20.498 Meier for when they start becoming.
NOTE Confidence: 0.663960366666667

00:51:20.500 --> 00:51:22.453 At your end or non idea and you can
NOTE Confidence: 0.663960366666667

00:51:22.453 --> 00:51:24.042 see that they curve start display
NOTE Confidence: 0.663960366666667

00:51:24.042 --> 00:51:26.525 it on 90 days and then they start to
NOTE Confidence: 0.663960366666667

00:51:26.525 --> 00:51:28.440 display even more 120 days in focus
NOTE Confidence: 0.663960366666667

00:51:28.440 --> 00:51:30.260 groups with RDM we find that they
NOTE Confidence: 0.663960366666667

00:51:30.260 --> 00:51:32.626 give almost a 30 day grace period even

NOTE Confidence: 0.663960366666667
00:51:32.626 --> 00:51:34.423 though that there's the 90 day rule
NOTE Confidence: 0.663960366666667
00:51:34.423 --> 00:51:36.936 they give a call at the 90th day or so.
NOTE Confidence: 0.663960366666667
00:51:36.936 --> 00:51:39.652 Did they get to it and then they give
NOTE Confidence: 0.663960366666667
00:51:39.652 --> 00:51:41.440 multiple calls saying hey we're gonna
NOTE Confidence: 0.663960366666667
00:51:41.493 --> 00:51:43.227 report you to collection agency or
NOTE Confidence: 0.663960366666667
00:51:43.227 --> 00:51:45.615 they send them a bill in the mail
NOTE Confidence: 0.663960366666667
00:51:45.615 --> 00:51:48.010 or they you know I'm keep badgering
NOTE Confidence: 0.663960366666667
00:51:48.010 --> 00:51:51.186 them and so you can see that's when.
NOTE Confidence: 0.663960366666667
00:51:51.190 --> 00:51:52.890 It actually plays even more,
NOTE Confidence: 0.663960366666667
00:51:52.890 --> 00:51:54.612 and so when we look at a
NOTE Confidence: 0.663960366666667
00:51:54.612 --> 00:51:55.860 difference in difference analysis,
NOTE Confidence: 0.663960366666667
00:51:55.860 --> 00:51:58.163 we find that those two time points
NOTE Confidence: 0.663960366666667
00:51:58.163 --> 00:51:59.150 90 and 120
NOTE Confidence: 0.891821100625
00:51:59.228 --> 00:52:01.363 days is where that health
NOTE Confidence: 0.891821100625
00:52:01.363 --> 00:52:03.116 disparity becomes more apparent,
NOTE Confidence: 0.891821100625

00:52:03.116 --> 00:52:06.210 and so I can't think of something

NOTE Confidence: 0.891821100625

00:52:06.289 --> 00:52:09.181 more telling we came upon across

NOTE Confidence: 0.891821100625

00:52:09.181 --> 00:52:11.240 this innocentis manner that this

NOTE Confidence: 0.891821100625

00:52:11.240 --> 00:52:13.375 is ties to a man made rules,

NOTE Confidence: 0.891821100625

00:52:13.380 --> 00:52:15.690 so it's hard enough to use an

NOTE Confidence: 0.891821100625

00:52:15.690 --> 00:52:17.324 external device that requires

NOTE Confidence: 0.891821100625

00:52:17.324 --> 00:52:19.606 behavioral change and use it nine

NOTE Confidence: 0.891821100625

00:52:19.606 --> 00:52:21.310 play as opposed to an implanted.

NOTE Confidence: 0.891821100625

00:52:21.310 --> 00:52:23.410 Device that needs to be turned on.

NOTE Confidence: 0.891821100625

00:52:23.410 --> 00:52:26.650 UM, that requires behavioral change.

NOTE Confidence: 0.891821100625

00:52:26.650 --> 00:52:29.002 Uhm, on top of that we have these

NOTE Confidence: 0.891821100625

00:52:29.002 --> 00:52:31.285 man made rules that exist only

NOTE Confidence: 0.891821100625

00:52:31.285 --> 00:52:33.310 for the sleep apnea condition.

NOTE Confidence: 0.891821100625

00:52:33.310 --> 00:52:35.980 So I think we need to do a lot in

NOTE Confidence: 0.891821100625

00:52:36.062 --> 00:52:38.826 this area to actually address there's

NOTE Confidence: 0.891821100625

00:52:38.826 --> 00:52:41.880 some issue which is affecting the

NOTE Confidence: 0.891821100625

00:52:41.972 --> 00:52:44.170 signs and affecting patient care,

NOTE Confidence: 0.891821100625

00:52:44.170 --> 00:52:46.840 and we repeatedly keep doing the

NOTE Confidence: 0.891821100625

00:52:46.919 --> 00:52:49.038 same studies without actually

NOTE Confidence: 0.891821100625

00:52:49.038 --> 00:52:52.108 having strong robust CPAP adherence

NOTE Confidence: 0.891821100625

00:52:52.108 --> 00:52:54.950 and proven CPAP adherence.

NOTE Confidence: 0.891821100625

00:52:54.950 --> 00:52:56.878 Promotion interventions in the

NOTE Confidence: 0.891821100625

00:52:56.878 --> 00:52:59.288 intention to treat or intervention

NOTE Confidence: 0.891821100625

00:52:59.288 --> 00:53:01.436 arm as long as we keep doing that,

NOTE Confidence: 0.891821100625

00:53:01.440 --> 00:53:03.624 we're not going to generate the data.

NOTE Confidence: 0.891821100625

00:53:03.630 --> 00:53:06.381 Uh, to show you know what we

NOTE Confidence: 0.891821100625

00:53:06.381 --> 00:53:08.410 would like to show up,

NOTE Confidence: 0.891821100625

00:53:08.410 --> 00:53:11.218 so I'll stop there and I I don't.

NOTE Confidence: 0.891821100625

00:53:11.220 --> 00:53:12.510 I'm sorry I didn't get

NOTE Confidence: 0.891821100625

00:53:12.510 --> 00:53:13.542 much time for questions,

NOTE Confidence: 0.891821100625

00:53:13.550 --> 00:53:17.310 but I appreciate your attention,

NOTE Confidence: 0.891821100625

00:53:17.310 --> 00:53:19.277 so Janet handing it back to you.
NOTE Confidence: 0.9601238922222222

00:53:20.740 --> 00:53:22.402 Thank you so much and that
NOTE Confidence: 0.9601238922222222

00:53:22.402 --> 00:53:23.233 was absolutely outstanding.
NOTE Confidence: 0.9601238922222222

00:53:23.240 --> 00:53:24.626 I mean, you really need just
NOTE Confidence: 0.9601238922222222

00:53:24.626 --> 00:53:26.448 such a case for why it's so
NOTE Confidence: 0.9601238922222222

00:53:26.448 --> 00:53:27.858 important to treat sleep apnea.
NOTE Confidence: 0.9601238922222222

00:53:27.860 --> 00:53:31.109 Why it really needs to be approached from a
NOTE Confidence: 0.9601238922222222

00:53:31.109 --> 00:53:33.889 patient centered and team based approach,
NOTE Confidence: 0.9601238922222222

00:53:33.890 --> 00:53:36.116 and I think that's really key.
NOTE Confidence: 0.9601238922222222

00:53:36.120 --> 00:53:37.500 You know, with a new man,
NOTE Confidence: 0.9601238922222222

00:53:37.500 --> 00:53:38.949 you made a very good case for what you
NOTE Confidence: 0.9601238922222222

00:53:38.949 --> 00:53:40.257 know with health disparities and where
NOTE Confidence: 0.9601238922222222

00:53:40.257 --> 00:53:41.929 I think we're seeing that more and more,
NOTE Confidence: 0.9601238922222222

00:53:41.930 --> 00:53:44.738 you know, at one point prior to the pandemic,
NOTE Confidence: 0.9601238922222222

00:53:44.740 --> 00:53:47.665 I think some of our DNS as well as
NOTE Confidence: 0.9601238922222222

00:53:47.670 --> 00:53:49.574 we at Yale had we're trying to think

NOTE Confidence: 0.960123892222222

00:53:49.574 --> 00:53:51.249 about and start a compassionate.

NOTE Confidence: 0.960123892222222

00:53:51.250 --> 00:53:53.530 CPAP program to just try to get these

NOTE Confidence: 0.960123892222222

00:53:53.530 --> 00:53:55.306 patients you know at that 90 day,

NOTE Confidence: 0.960123892222222

00:53:55.310 --> 00:53:57.086 you know because there are some

NOTE Confidence: 0.960123892222222

00:53:57.086 --> 00:53:58.622 people who really obviously can't

NOTE Confidence: 0.960123892222222

00:53:58.622 --> 00:54:00.087 afford you know those copays,

NOTE Confidence: 0.960123892222222

00:54:00.090 --> 00:54:02.274 and with the pandemic it seems that a

NOTE Confidence: 0.960123892222222

00:54:02.274 --> 00:54:04.628 lot of those programs have shut down

NOTE Confidence: 0.960123892222222

00:54:04.628 --> 00:54:06.929 and have it really started back up.

NOTE Confidence: 0.960123892222222

00:54:06.930 --> 00:54:08.390 What's been your experience with

NOTE Confidence: 0.960123892222222

00:54:08.390 --> 00:54:09.558 those kinds of programs?

NOTE Confidence: 0.880309491666667

00:54:10.780 --> 00:54:12.370 Our experience has been the same.

NOTE Confidence: 0.880309491666667

00:54:12.370 --> 00:54:13.925 There's a lot of concern

NOTE Confidence: 0.880309491666667

00:54:13.925 --> 00:54:14.858 about infection control.

NOTE Confidence: 0.880309491666667

00:54:14.860 --> 00:54:16.652 It existed even before.

NOTE Confidence: 0.880309491666667

00:54:16.652 --> 00:54:17.996 Must be honest,
NOTE Confidence: 0.880309491666667

00:54:18.000 --> 00:54:20.338 we use a lot of refurbished CPAP.
NOTE Confidence: 0.880309491666667

00:54:20.340 --> 00:54:22.200 There are local support groups,
NOTE Confidence: 0.880309491666667

00:54:22.200 --> 00:54:25.386 non profit centers that was actually
NOTE Confidence: 0.880309491666667

00:54:25.386 --> 00:54:29.330 refurbishing CPAP in issuing them.
NOTE Confidence: 0.880309491666667

00:54:29.330 --> 00:54:31.922 They actually couple of them shut
NOTE Confidence: 0.880309491666667

00:54:31.922 --> 00:54:34.300 down under threat of a lawsuit for
NOTE Confidence: 0.880309491666667

00:54:34.300 --> 00:54:36.213 spread of infection and this was
NOTE Confidence: 0.880309491666667

00:54:36.213 --> 00:54:37.908 even before the COVID pandemic.
NOTE Confidence: 0.880309491666667

00:54:37.910 --> 00:54:39.340 And of course the physicality
NOTE Confidence: 0.880309491666667

00:54:39.340 --> 00:54:41.416 of being able to meet people and
NOTE Confidence: 0.880309491666667

00:54:41.416 --> 00:54:43.467 support them as being a major issue.
NOTE Confidence: 0.880309491666667

00:54:43.470 --> 00:54:45.734 As you know and so we've had that
NOTE Confidence: 0.880309491666667

00:54:45.734 --> 00:54:47.661 same sort of sobering effect
NOTE Confidence: 0.880309491666667

00:54:47.661 --> 00:54:49.806 and dampening effect on such
NOTE Confidence: 0.880309491666667

00:54:49.806 --> 00:54:51.720 separate programs and mechanisms.

NOTE Confidence: 0.913660935625

00:54:52.840 --> 00:54:53.941 Right, it's difficult.

NOTE Confidence: 0.913660935625

00:54:53.941 --> 00:54:56.143 I'm gonna start reading some questions

NOTE Confidence: 0.913660935625

00:54:56.143 --> 00:54:58.375 that are coming in from the chat one.

NOTE Confidence: 0.913660935625

00:54:58.375 --> 00:55:00.440 We just move up from Clara Yagi,

NOTE Confidence: 0.913660935625

00:55:00.440 --> 00:55:01.256 a wonderful talk.

NOTE Confidence: 0.913660935625

00:55:01.256 --> 00:55:04.008 How about instead of a C PAP for all

NOTE Confidence: 0.913660935625

00:55:04.008 --> 00:55:06.354 approach where half donate here and

NOTE Confidence: 0.913660935625

00:55:06.354 --> 00:55:07.789 become disenfranchised from care?

NOTE Confidence: 0.913660935625

00:55:07.790 --> 00:55:10.214 Seems that we like to be heading to.

NOTE Confidence: 0.913660935625

00:55:10.220 --> 00:55:11.795 It seems we need to be heading

NOTE Confidence: 0.913660935625

00:55:11.795 --> 00:55:13.710 to more of a precision medicine

NOTE Confidence: 0.913660935625

00:55:13.710 --> 00:55:15.685 approach up front with multiple

NOTE Confidence: 0.913660935625

00:55:15.685 --> 00:55:17.728 modalities targeted to an individual

NOTE Confidence: 0.913660935625

00:55:17.728 --> 00:55:19.324 patient preference and Physiology.

NOTE Confidence: 0.913660935625

00:55:19.330 --> 00:55:20.420 Your thoughts?

NOTE Confidence: 0.75135894

00:55:20.450 --> 00:55:23.336 I'm 100% in support of that.
NOTE Confidence: 0.75135894

00:55:23.340 --> 00:55:25.620 Uhm, I I just, uh, you know,
NOTE Confidence: 0.75135894

00:55:25.620 --> 00:55:28.020 as both the researcher and as a clinician,
NOTE Confidence: 0.75135894

00:55:28.020 --> 00:55:29.802 I want guidance.
NOTE Confidence: 0.75135894

00:55:29.802 --> 00:55:33.366 And I want also help with
NOTE Confidence: 0.75135894

00:55:33.366 --> 00:55:35.980 operationalizing the guidance right?
NOTE Confidence: 0.75135894

00:55:35.980 --> 00:55:37.924 I mean, we got 40 minutes for new patient,
NOTE Confidence: 0.75135894

00:55:37.930 --> 00:55:39.240 20 minutes for return. Patient.
NOTE Confidence: 0.75135894

00:55:39.240 --> 00:55:40.570 Sorry I'm sort of bashing
NOTE Confidence: 0.75135894

00:55:40.570 --> 00:55:41.634 our bean counters here.
NOTE Confidence: 0.75135894

00:55:41.640 --> 00:55:42.496 Which hey, you know,
NOTE Confidence: 0.75135894

00:55:42.496 --> 00:55:43.780 hopefully they're not on the talk.
NOTE Confidence: 0.75135894

00:55:43.780 --> 00:55:45.370 They don't get on these talks
NOTE Confidence: 0.75135894

00:55:45.370 --> 00:55:46.760 because they're counting the beans,
NOTE Confidence: 0.75135894

00:55:46.760 --> 00:55:51.230 and so all I'm saying is just that
NOTE Confidence: 0.75135894

00:55:51.230 --> 00:55:53.365 I am totally in agreement with that.

NOTE Confidence: 0.75135894
00:55:53.370 --> 00:55:55.345 Approach, I just need guidance
NOTE Confidence: 0.75135894
00:55:55.345 --> 00:55:57.320 that I can actually easily
NOTE Confidence: 0.75135894
00:55:57.398 --> 00:55:59.758 implement in my clinical practice.
NOTE Confidence: 0.75135894
00:55:59.760 --> 00:56:00.450 That's the ask.
NOTE Confidence: 0.901919037142857
00:56:01.180 --> 00:56:04.099 Thank you, Karen Johnson has a question.
NOTE Confidence: 0.901919037142857
00:56:04.100 --> 00:56:05.438 You know the unmap expert panel
NOTE Confidence: 0.901919037142857
00:56:05.438 --> 00:56:06.980 had a lot of discussion over
NOTE Confidence: 0.901919037142857
00:56:06.980 --> 00:56:08.750 what Medicare should be asked to
NOTE Confidence: 0.901919037142857
00:56:08.750 --> 00:56:10.449 cover for not appear in patients
NOTE Confidence: 0.901919037142857
00:56:10.449 --> 00:56:12.033 as well as weather follow up.
NOTE Confidence: 0.901919037142857
00:56:12.040 --> 00:56:13.657 Visits are needed to keep the device.
NOTE Confidence: 0.901919037142857
00:56:13.660 --> 00:56:15.180 If a patient is adherent,
NOTE Confidence: 0.901919037142857
00:56:15.180 --> 00:56:17.130 what specific ask would you have
NOTE Confidence: 0.901919037142857
00:56:17.130 --> 00:56:19.459 for CMS or Congress in terms of
NOTE Confidence: 0.901919037142857
00:56:19.459 --> 00:56:21.379 how to cover devices and supplies?
NOTE Confidence: 0.916706795

00:56:22.850 --> 00:56:25.030 I really think they need to cash,
NOTE Confidence: 0.916706795

00:56:25.030 --> 00:56:27.070 so there are two separate things.
NOTE Confidence: 0.916706795

00:56:27.070 --> 00:56:28.546 One is device and suppliers right?
NOTE Confidence: 0.916706795

00:56:28.550 --> 00:56:31.343 And so the they need to make
NOTE Confidence: 0.916706795

00:56:31.343 --> 00:56:33.612 this 90 day rule go away.
NOTE Confidence: 0.916706795

00:56:33.612 --> 00:56:35.328 I honestly that's what I think
NOTE Confidence: 0.916706795

00:56:35.328 --> 00:56:38.028 and I think it should be based on
NOTE Confidence: 0.916706795

00:56:38.028 --> 00:56:40.109 whether someone has intent to use it.
NOTE Confidence: 0.916706795

00:56:40.110 --> 00:56:41.545 If someone has an intent to use
NOTE Confidence: 0.916706795

00:56:41.545 --> 00:56:43.007 they should be allowed to use it.
NOTE Confidence: 0.916706795

00:56:43.010 --> 00:56:44.395 And it's not like withholding
NOTE Confidence: 0.916706795

00:56:44.395 --> 00:56:46.030 insulin from a diabetic was emo.
NOTE Confidence: 0.916706795

00:56:46.030 --> 00:56:47.062 Globin A1C is 9.
NOTE Confidence: 0.916706795

00:56:47.062 --> 00:56:49.116 I mean, that's ridiculous,
NOTE Confidence: 0.916706795

00:56:49.116 --> 00:56:52.956 and so that's one supplies.
NOTE Confidence: 0.916706795

00:56:52.960 --> 00:56:55.464 Uhm, you know I actually, I got called

NOTE Confidence: 0.916706795

00:56:55.464 --> 00:56:57.012 by the office of Inspector General.

NOTE Confidence: 0.916706795

00:56:57.020 --> 00:56:58.539 You know while ago because the red

NOTE Confidence: 0.916706795

00:56:58.539 --> 00:57:00.450 one of our papers on resupply rates,

NOTE Confidence: 0.916706795

00:57:00.450 --> 00:57:01.850 which I didn't share today,

NOTE Confidence: 0.916706795

00:57:01.850 --> 00:57:03.080 and because they wanted an opinion,

NOTE Confidence: 0.916706795

00:57:03.080 --> 00:57:04.100 I thought I was in trouble,

NOTE Confidence: 0.916706795

00:57:04.100 --> 00:57:06.710 but they said no no.

NOTE Confidence: 0.916706795

00:57:06.710 --> 00:57:07.412 Like no, no,

NOTE Confidence: 0.916706795

00:57:07.412 --> 00:57:09.230 we want your opinion because we're trying to,

NOTE Confidence: 0.916706795

00:57:09.230 --> 00:57:10.238 you know, audits EMS.

NOTE Confidence: 0.916706795

00:57:10.238 --> 00:57:12.705 I mean DHS as to how they are doing

NOTE Confidence: 0.916706795

00:57:12.705 --> 00:57:14.475 the supplies and I think they

NOTE Confidence: 0.916706795

00:57:14.475 --> 00:57:16.551 also talked to petrol and couple

NOTE Confidence: 0.916706795

00:57:16.551 --> 00:57:18.136 other people and so you know,

NOTE Confidence: 0.916706795

00:57:18.136 --> 00:57:19.256 as they initially of course

NOTE Confidence: 0.916706795

00:57:19.256 --> 00:57:20.730 it was a little taken aback.
NOTE Confidence: 0.916706795

00:57:20.730 --> 00:57:22.650 But you know where the supplies.
NOTE Confidence: 0.916706795

00:57:22.650 --> 00:57:24.954 I really think we need to do a
NOTE Confidence: 0.916706795

00:57:24.954 --> 00:57:26.994 better job giving supplies up front.
NOTE Confidence: 0.916706795

00:57:26.994 --> 00:57:29.698 You know what they have is a
NOTE Confidence: 0.916706795

00:57:29.698 --> 00:57:31.868 prescriptive oh every three months.
NOTE Confidence: 0.916706795

00:57:31.870 --> 00:57:33.766 But we all know that in the first
NOTE Confidence: 0.916706795

00:57:33.766 --> 00:57:35.689 90 days they probably need more.
NOTE Confidence: 0.916706795

00:57:35.690 --> 00:57:36.874 They need exposure to.
NOTE Confidence: 0.916706795

00:57:36.874 --> 00:57:39.155 More devices and then they can paper it
NOTE Confidence: 0.916706795

00:57:39.155 --> 00:57:40.660 out and so when we looked at a hearing,
NOTE Confidence: 0.916706795

00:57:40.660 --> 00:57:42.208 people and an Indian people we
NOTE Confidence: 0.916706795

00:57:42.208 --> 00:57:43.960 could see the refund rate threshold
NOTE Confidence: 0.916706795

00:57:43.960 --> 00:57:46.960 which was something like .75
NOTE Confidence: 0.916706795

00:57:46.960 --> 00:57:49.906 masks and accessories in a one
NOTE Confidence: 0.916706795

00:57:49.906 --> 00:57:52.594 year period and that's the that's

NOTE Confidence: 0.916706795

00:57:52.594 --> 00:57:54.724 what enduring people are using.

NOTE Confidence: 0.916706795

00:57:54.730 --> 00:57:57.436 But in the first three months

NOTE Confidence: 0.916706795

00:57:57.440 --> 00:57:58.540 they want four machine,

NOTE Confidence: 0.916706795

00:57:58.540 --> 00:58:00.559 four mass so that it can find

NOTE Confidence: 0.916706795

00:58:00.559 --> 00:58:02.089 the message works for them.

NOTE Confidence: 0.916706795

00:58:02.090 --> 00:58:03.850 So I think you know they're going with

NOTE Confidence: 0.916706795

00:58:03.850 --> 00:58:05.624 a cookie cutter approach rather than

NOTE Confidence: 0.916706795

00:58:05.624 --> 00:58:07.283 a tailored approach, and I think.

NOTE Confidence: 0.916706795

00:58:07.283 --> 00:58:09.213 We need to go with a tailored approach

NOTE Confidence: 0.916706795

00:58:09.213 --> 00:58:11.870 where they get 5 masks in the first 90 days.

NOTE Confidence: 0.916706795

00:58:11.870 --> 00:58:13.613 I don't know maximum and then you

NOTE Confidence: 0.916706795

00:58:13.613 --> 00:58:15.696 can taper down to you know one mask

NOTE Confidence: 0.916706795

00:58:15.696 --> 00:58:17.615 every six months rather than one mask

NOTE Confidence: 0.916706795

00:58:17.615 --> 00:58:19.680 every three months during the entire life.

NOTE Confidence: 0.851937868

00:58:21.000 --> 00:58:22.100 I think that sounds fabulous.

NOTE Confidence: 0.851937868

00:58:22.100 --> 00:58:23.485 I think. I think you're
NOTE Confidence: 0.851937868

00:58:23.485 --> 00:58:24.593 definitely onto something there.
NOTE Confidence: 0.851937868

00:58:24.600 --> 00:58:26.490 I think we have time for one more question.
NOTE Confidence: 0.851937868

00:58:26.490 --> 00:58:27.588 Andres in check.
NOTE Confidence: 0.851937868

00:58:27.588 --> 00:58:29.784 Also, thanks for a wonderful talk.
NOTE Confidence: 0.851937868

00:58:29.790 --> 00:58:32.454 He said. What utility did you
NOTE Confidence: 0.851937868

00:58:32.454 --> 00:58:34.518 find in having summary adherence
NOTE Confidence: 0.851937868

00:58:34.518 --> 00:58:36.338 data for your sleep center?
NOTE Confidence: 0.851937868

00:58:36.340 --> 00:58:38.146 Did it lead to changes in
NOTE Confidence: 0.851937868

00:58:38.146 --> 00:58:39.350 practice or new interventions?
NOTE Confidence: 0.814169496875

00:58:41.120 --> 00:58:43.269 First of all, it meets our SGM
NOTE Confidence: 0.814169496875

00:58:43.269 --> 00:58:44.933 requirement for someone to do
NOTE Confidence: 0.814169496875

00:58:44.933 --> 00:58:46.297 a quality improvement project.
NOTE Confidence: 0.814169496875

00:58:46.300 --> 00:58:47.580 It's a low hanging fruit.
NOTE Confidence: 0.814169496875

00:58:47.580 --> 00:58:48.756 I'm just sharing that with you,
NOTE Confidence: 0.814169496875

00:58:48.760 --> 00:58:50.279 so they're not struggling so that then

NOTE Confidence: 0.814169496875

00:58:50.279 --> 00:58:52.038 they can focus on their research project.

NOTE Confidence: 0.814169496875

00:58:52.040 --> 00:58:53.727 And as you know, with these software,

NOTE Confidence: 0.814169496875

00:58:53.730 --> 00:58:55.410 you can actually do an output

NOTE Confidence: 0.814169496875

00:58:55.410 --> 00:58:56.530 of an Excel file.

NOTE Confidence: 0.814169496875

00:58:56.530 --> 00:58:57.657 That's all I ask him to do.

NOTE Confidence: 0.814169496875

00:58:57.660 --> 00:58:59.244 Hey, go click the output button

NOTE Confidence: 0.814169496875

00:58:59.244 --> 00:59:00.852 generated and tell me how many

NOTE Confidence: 0.814169496875

00:59:00.852 --> 00:59:02.346 people right here in an Indian.

NOTE Confidence: 0.814169496875

00:59:02.350 --> 00:59:04.342 Now you tell me you create a white

NOTE Confidence: 0.814169496875

00:59:04.342 --> 00:59:06.407 paper on your Qi because you already

NOTE Confidence: 0.814169496875

00:59:06.407 --> 00:59:08.440 done that in literally 5 minutes.

NOTE Confidence: 0.814169496875

00:59:08.440 --> 00:59:09.860 You've done your QR project.

NOTE Confidence: 0.814169496875

00:59:09.860 --> 00:59:11.029 I want you write a white paper.

NOTE Confidence: 0.814169496875

00:59:11.030 --> 00:59:12.398 And what you gonna do to

NOTE Confidence: 0.814169496875

00:59:12.398 --> 00:59:13.082 help improve adherence?

NOTE Confidence: 0.814169496875

00:59:13.090 --> 00:59:14.518 And that's where I get all my
NOTE Confidence: 0.814169496875

00:59:14.518 --> 00:59:16.029 ideas to do sleep over there,
NOTE Confidence: 0.814169496875

00:59:16.030 --> 00:59:17.938 see studies and sorry the second
NOTE Confidence: 0.814169496875

00:59:17.938 --> 00:59:19.810 part of the question was what,
NOTE Confidence: 0.814169496875

00:59:19.810 --> 00:59:20.220 again,
NOTE Confidence: 0.909494715

00:59:21.100 --> 00:59:23.182 whether this led to changes in
NOTE Confidence: 0.909494715

00:59:23.182 --> 00:59:24.570 practice or new interventions.
NOTE Confidence: 0.840101412

00:59:25.090 --> 00:59:25.816 Yeah, it did.
NOTE Confidence: 0.840101412

00:59:25.816 --> 00:59:27.510 And that's where we get our ideas.
NOTE Confidence: 0.840101412

00:59:27.510 --> 00:59:30.985 It led to changes in practice.
NOTE Confidence: 0.840101412

00:59:30.985 --> 00:59:32.695 For example, one of them decided
NOTE Confidence: 0.840101412

00:59:32.695 --> 00:59:35.299 to do it selectively on people who
NOTE Confidence: 0.840101412

00:59:35.299 --> 00:59:37.124 recently hospital discharge and
NOTE Confidence: 0.840101412

00:59:37.124 --> 00:59:40.761 and he hasn't written a paper, but.
NOTE Confidence: 0.840101412

00:59:40.761 --> 00:59:42.938 You know, showing how the people are
NOTE Confidence: 0.840101412

00:59:42.938 --> 00:59:45.049 adherents with their device after hospital

NOTE Confidence: 0.840101412

00:59:45.049 --> 00:59:47.185 discharge you know these are people.

NOTE Confidence: 0.840101412

00:59:47.190 --> 00:59:48.354 Comma, dislike CPU,

NOTE Confidence: 0.840101412

00:59:48.354 --> 00:59:49.906 basically hyperinflation syndrome or

NOTE Confidence: 0.840101412

00:59:49.906 --> 00:59:52.528 failure or less likely to get re-admitted.

NOTE Confidence: 0.840101412

00:59:52.530 --> 00:59:54.392 Then we were able to actually show

NOTE Confidence: 0.840101412

00:59:54.392 --> 00:59:56.401 that to our 30 hospital healthcare

NOTE Confidence: 0.840101412

00:59:56.401 --> 00:59:58.311 system spanning five States and

NOTE Confidence: 0.840101412

00:59:58.311 --> 01:00:00.391 we actually have a working group

NOTE Confidence: 0.840101412

01:00:00.391 --> 01:00:02.269 about how we can actually promote

NOTE Confidence: 0.840101412

01:00:02.270 --> 01:00:04.943 have therapy be at an Ivy or C PAP

NOTE Confidence: 0.840101412

01:00:04.943 --> 01:00:07.983 for patients with comorbid CPD to

NOTE Confidence: 0.840101412

01:00:07.983 --> 01:00:10.107 help reduce re hospitalization.

NOTE Confidence: 0.840101412

01:00:10.110 --> 01:00:11.370 And of course we've tried.

NOTE Confidence: 0.840101412

01:00:11.370 --> 01:00:14.121 Getting funding from NIH DoD Bakery and

NOTE Confidence: 0.840101412

01:00:14.121 --> 01:00:16.698 you know, that's not just me, you know,

NOTE Confidence: 0.840101412

01:00:16.700 --> 01:00:19.238 Jerry Trainer and they kill myself.
NOTE Confidence: 0.840101412

01:00:19.240 --> 01:00:22.240 We've tried it so many times and failed,
NOTE Confidence: 0.840101412

01:00:22.240 --> 01:00:23.896 but now we want to try and do
NOTE Confidence: 0.840101412

01:00:23.896 --> 01:00:25.552 maybe something in the realm of
NOTE Confidence: 0.840101412

01:00:25.552 --> 01:00:27.161 implementation science, but that's what.
NOTE Confidence: 0.840101412

01:00:27.161 --> 01:00:28.509 Led to that idea.
NOTE Confidence: 0.840101412

01:00:28.510 --> 01:00:29.510 So these Qi projects,
NOTE Confidence: 0.840101412

01:00:29.510 --> 01:00:31.010 by being able to do that.
NOTE Confidence: 0.840101412

01:00:31.010 --> 01:00:33.512 Looking at the dashboard is a is a good
NOTE Confidence: 0.840101412

01:00:33.512 --> 01:00:35.859 way for us to improve our outcomes.
NOTE Confidence: 0.93616082375

01:00:36.720 --> 01:00:38.928 I mean, thank you. I think we are.
NOTE Confidence: 0.93616082375

01:00:38.930 --> 01:00:40.178 We are at time right now,
NOTE Confidence: 0.93616082375

01:00:40.180 --> 01:00:41.475 but this has really been
NOTE Confidence: 0.93616082375

01:00:41.475 --> 01:00:42.770 just such an informative and
NOTE Confidence: 0.93616082375

01:00:42.827 --> 01:00:44.147 and just interesting talks.
NOTE Confidence: 0.93616082375

01:00:44.150 --> 01:00:45.598 So thank you so much for your time,

NOTE Confidence: 0.93616082375

01:00:45.600 --> 01:00:46.548 really appreciate it.

NOTE Confidence: 0.931971415

01:00:46.980 --> 01:00:47.964 Thank you so much.

NOTE Confidence: 0.931971415

01:00:47.964 --> 01:00:48.948 Thanks for hiring me.

NOTE Confidence: 0.931971415

01:00:48.950 --> 01:00:50.618 I'm good to see all of

NOTE Confidence: 0.931971415

01:00:50.618 --> 01:00:51.730 those friendly faces there.

NOTE Confidence: 0.931971415

01:00:51.730 --> 01:00:53.740 Yeah bye bye bye bye now.

NOTE Confidence: 0.931971415

01:00:53.740 --> 01:00:54.750 Thank you bye.