

WEBVTT

NOTE duration: "00:55:47.498"

NOTE Confidence: 0.8611341

00:00:11.039 --> 00:00:12.660 Okay. Welcome everyone

NOTE Confidence: 0.86681

00:00:14.275 --> 00:00:16.055 to General Medicine Noon Conference.

NOTE Confidence: 0.99758166

00:00:16.515 --> 00:00:17.954 CME code for today is

NOTE Confidence: 0.99758166

00:00:17.954 --> 00:00:19.495 five five nine zero five.

NOTE Confidence: 0.82815325

00:00:21.954 --> 00:00:22.454 Upcoming,

NOTE Confidence: 0.96498483

00:00:23.475 --> 00:00:25.715 retreat is, well, next one

NOTE Confidence: 0.96498483

00:00:25.715 --> 00:00:26.595 is May twenty ninth. I

NOTE Confidence: 0.96498483

00:00:26.595 --> 00:00:27.235 have a little bit of

NOTE Confidence: 0.96498483

00:00:27.235 --> 00:00:29.255 time on that. Educational retreat.

NOTE Confidence: 0.96498483

00:00:29.420 --> 00:00:31.040 Please watch out for information

NOTE Confidence: 0.96498483

00:00:31.340 --> 00:00:32.239 and opportunities

NOTE Confidence: 0.9983792

00:00:32.620 --> 00:00:33.600 to sign up.

NOTE Confidence: 0.99638

00:00:35.020 --> 00:00:36.080 This is our weekly

NOTE Confidence: 0.97572327

00:00:36.860 --> 00:00:37.900 is it bouncing for you?

NOTE Confidence: 0.97572327

00:00:37.900 --> 00:00:39.200 It's not just my okay.  
NOTE Confidence: 0.9250062

00:00:40.140 --> 00:00:41.900 Our weekly bouncing reminder for  
NOTE Confidence: 0.9250062

00:00:41.900 --> 00:00:43.200 the, your FDACs.  
NOTE Confidence: 0.978464

00:00:44.705 --> 00:00:45.985 We are now entering the  
NOTE Confidence: 0.978464

00:00:45.985 --> 00:00:47.765 phase where the senior faculty  
NOTE Confidence: 0.978464

00:00:47.825 --> 00:00:48.885 are meeting and,  
NOTE Confidence: 0.97222763

00:00:49.265 --> 00:00:50.225 trying to come up with  
NOTE Confidence: 0.97222763

00:00:50.225 --> 00:00:51.905 good advice and suggestions for  
NOTE Confidence: 0.97222763

00:00:51.905 --> 00:00:53.345 everybody and then watch out  
NOTE Confidence: 0.97222763

00:00:53.345 --> 00:00:54.864 for opportunities to meet with  
NOTE Confidence: 0.97222763

00:00:54.864 --> 00:00:56.565 your meet with your mentors.  
NOTE Confidence: 0.8047329

00:00:59.880 --> 00:01:01.720 Upcoming research and progress in  
NOTE Confidence: 0.8047329

00:01:01.720 --> 00:01:02.540 grand rounds.  
NOTE Confidence: 0.9956957

00:01:03.000 --> 00:01:04.220 Next week,  
NOTE Confidence: 0.91840976

00:01:04.760 --> 00:01:06.680 doctor Nikkayan will be speaking  
NOTE Confidence: 0.91840976

00:01:06.680 --> 00:01:09.180 about interventional psychiatric treatments,

NOTE Confidence: 0.92409676  
00:01:09.880 --> 00:01:11.640 and other modalities that we  
NOTE Confidence: 0.92409676  
00:01:11.640 --> 00:01:13.000 or at least they someone  
NOTE Confidence: 0.92409676  
00:01:13.000 --> 00:01:14.155 is using in clinic and,  
NOTE Confidence: 0.92409676  
00:01:14.395 --> 00:01:15.455 and in the hospital.  
NOTE Confidence: 0.9932902  
00:01:15.755 --> 00:01:16.955 And then next week, we'll  
NOTE Confidence: 0.9932902  
00:01:16.955 --> 00:01:18.715 have our section faculty and  
NOTE Confidence: 0.9932902  
00:01:18.715 --> 00:01:19.935 staff meeting.  
NOTE Confidence: 0.9578475  
00:01:22.715 --> 00:01:23.215 Disclosures.  
NOTE Confidence: 0.9994185  
00:01:26.315 --> 00:01:26.815 Okay.  
NOTE Confidence: 0.9490106  
00:01:27.509 --> 00:01:29.829 Excited now to, present doctor  
NOTE Confidence: 0.9490106  
00:01:29.829 --> 00:01:30.229 David,  
NOTE Confidence: 0.98472667  
00:01:30.630 --> 00:01:31.130 Fink,  
NOTE Confidence: 0.9360974  
00:01:31.670 --> 00:01:33.209 who, was originally,  
NOTE Confidence: 0.9722383  
00:01:33.590 --> 00:01:34.329 an undergrad,  
NOTE Confidence: 0.95861804  
00:01:34.789 --> 00:01:36.549 at University of California at  
NOTE Confidence: 0.95861804

00:01:36.549 --> 00:01:37.289 San Diego.  
NOTE Confidence: 0.9484878  
00:01:38.310 --> 00:01:39.670 Oh, sorry. San Diego State  
NOTE Confidence: 0.9484878  
00:01:39.670 --> 00:01:40.170 University,  
NOTE Confidence: 0.76996934  
00:01:40.869 --> 00:01:41.369 in,  
NOTE Confidence: 0.98960006  
00:01:42.705 --> 00:01:43.205 biostatistics  
NOTE Confidence: 0.9659382  
00:01:43.665 --> 00:01:44.405 and epidemiology  
NOTE Confidence: 0.9186925  
00:01:44.865 --> 00:01:46.625 before getting his PhD at  
NOTE Confidence: 0.9186925  
00:01:46.625 --> 00:01:47.125 Columbia,  
NOTE Confidence: 0.9955546  
00:01:47.585 --> 00:01:49.685 where he focused on understanding  
NOTE Confidence: 0.9955546  
00:01:49.745 --> 00:01:51.125 what state level policies,  
NOTE Confidence: 0.99326575  
00:01:51.825 --> 00:01:52.645 are affecting,  
NOTE Confidence: 0.9420212  
00:01:53.425 --> 00:01:54.500 the care and out outcomes  
NOTE Confidence: 0.9420212  
00:01:54.500 --> 00:01:55.700 for patients who are using  
NOTE Confidence: 0.9420212  
00:01:55.700 --> 00:01:57.060 a variety of substances using  
NOTE Confidence: 0.9420212  
00:01:57.060 --> 00:01:58.580 a prescript looking at prescription  
NOTE Confidence: 0.9420212  
00:01:58.580 --> 00:02:00.020 drug monitoring programs at the

NOTE Confidence: 0.9420212

00:02:00.020 --> 00:02:01.240 state level as well

NOTE Confidence: 0.97812796

00:02:01.540 --> 00:02:03.460 as legalization of marijuana. So

NOTE Confidence: 0.97812796

00:02:03.460 --> 00:02:04.200 very timely,

NOTE Confidence: 0.981458

00:02:05.300 --> 00:02:07.460 and important interventions to be

NOTE Confidence: 0.981458

00:02:07.460 --> 00:02:07.960 studying.

NOTE Confidence: 0.99709916

00:02:08.345 --> 00:02:09.705 But when doing those types

NOTE Confidence: 0.99709916

00:02:09.705 --> 00:02:11.005 of studies, critical

NOTE Confidence: 0.98882043

00:02:12.185 --> 00:02:13.944 area of focus is the

NOTE Confidence: 0.98882043

00:02:13.944 --> 00:02:15.705 methods and understanding more about

NOTE Confidence: 0.98882043

00:02:15.705 --> 00:02:17.385 causal inference, which is something

NOTE Confidence: 0.98882043

00:02:17.385 --> 00:02:18.185 that a lot of us

NOTE Confidence: 0.98882043

00:02:18.185 --> 00:02:19.944 have, thought about and struggled

NOTE Confidence: 0.98882043

00:02:19.944 --> 00:02:21.165 with over the years.

NOTE Confidence: 0.78013057

00:02:23.120 --> 00:02:23.620 Specifically,

NOTE Confidence: 0.91624695

00:02:24.880 --> 00:02:26.400 how doctor Fink is applying

NOTE Confidence: 0.91624695

00:02:26.400 --> 00:02:28.320 those, is as as a  
NOTE Confidence: 0.91624695

00:02:28.320 --> 00:02:29.780 substance use and psychiatric  
NOTE Confidence: 0.89902323

00:02:30.080 --> 00:02:30.580 epidemiologist.  
NOTE Confidence: 0.99688363

00:02:31.440 --> 00:02:32.880 His research broadly aims to  
NOTE Confidence: 0.99688363

00:02:32.880 --> 00:02:34.580 develop and apply rigorous  
NOTE Confidence: 0.99330676

00:02:34.995 --> 00:02:35.655 causal inference  
NOTE Confidence: 0.98573947

00:02:36.275 --> 00:02:36.775 methodologies  
NOTE Confidence: 0.98441744

00:02:37.075 --> 00:02:38.195 to study the causes of  
NOTE Confidence: 0.98441744

00:02:38.195 --> 00:02:40.115 addiction and mental illness with  
NOTE Confidence: 0.98441744

00:02:40.115 --> 00:02:41.875 a particular focus on estimating  
NOTE Confidence: 0.98441744

00:02:41.875 --> 00:02:43.235 the effects of federal and  
NOTE Confidence: 0.98441744

00:02:43.235 --> 00:02:44.775 state policies and programs.  
NOTE Confidence: 0.9483408

00:02:45.235 --> 00:02:46.755 His research in mental health,  
NOTE Confidence: 0.9483408

00:02:46.755 --> 00:02:48.535 substance use and health policy  
NOTE Confidence: 0.9483408

00:02:48.830 --> 00:02:50.190 are united by a desire  
NOTE Confidence: 0.9483408

00:02:50.190 --> 00:02:51.410 to not only understand,

NOTE Confidence: 0.98985595

00:02:51.790 --> 00:02:53.889 but reshape the structural, societal,

NOTE Confidence: 0.98985595

00:02:54.110 --> 00:02:55.950 and interpersonal factors that shape

NOTE Confidence: 0.98985595

00:02:55.950 --> 00:02:57.870 health and well-being over the

NOTE Confidence: 0.98985595

00:02:57.870 --> 00:02:58.610 life course.

NOTE Confidence: 0.9835838

00:02:59.230 --> 00:03:00.350 So we're really excited to

NOTE Confidence: 0.9835838

00:03:00.350 --> 00:03:01.389 have doctor Fink with us

NOTE Confidence: 0.9835838

00:03:01.389 --> 00:03:02.835 here at Yale in general,

NOTE Confidence: 0.9945056

00:03:03.555 --> 00:03:04.915 but also here at our

NOTE Confidence: 0.9945056

00:03:04.915 --> 00:03:06.115 noon conference to talk to

NOTE Confidence: 0.9945056

00:03:06.115 --> 00:03:06.855 us about,

NOTE Confidence: 0.9211774

00:03:08.675 --> 00:03:10.295 wrong answers when simple

NOTE Confidence: 0.99742234

00:03:10.915 --> 00:03:11.415 interpretations

NOTE Confidence: 0.98590493

00:03:11.715 --> 00:03:13.735 create complex problems for addiction

NOTE Confidence: 0.98590493

00:03:13.795 --> 00:03:14.935 science and policy.

NOTE Confidence: 0.9897432

00:03:15.315 --> 00:03:16.935 So welcome. Thank you.

NOTE Confidence: 0.66890484

00:03:22.000 --> 00:03:22.500 No.  
NOTE Confidence: 0.9447819  
00:03:23.040 --> 00:03:24.660 Thank you for the introduction.  
NOTE Confidence: 0.98417133  
00:03:26.480 --> 00:03:27.440 And thank you all for  
NOTE Confidence: 0.98417133  
00:03:27.440 --> 00:03:28.480 for being here on this  
NOTE Confidence: 0.98417133  
00:03:28.480 --> 00:03:30.639 pretty, rainy, crummy day, for  
NOTE Confidence: 0.98417133  
00:03:30.720 --> 00:03:31.680 and the people on Zoom  
NOTE Confidence: 0.98417133  
00:03:31.680 --> 00:03:32.505 who stayed home.  
NOTE Confidence: 0.9665668  
00:03:33.465 --> 00:03:34.505 So when I when I  
NOTE Confidence: 0.9665668  
00:03:34.505 --> 00:03:35.385 joined the department about a  
NOTE Confidence: 0.9665668  
00:03:35.385 --> 00:03:36.105 year and a half ago,  
NOTE Confidence: 0.9665668  
00:03:36.105 --> 00:03:36.985 I was I was pretty  
NOTE Confidence: 0.9665668  
00:03:36.985 --> 00:03:38.285 overwhelmed, I think, by  
NOTE Confidence: 0.968836  
00:03:38.665 --> 00:03:39.625 the size of it. Even  
NOTE Confidence: 0.968836  
00:03:39.625 --> 00:03:40.925 though I'd come from Columbia  
NOTE Confidence: 0.968836  
00:03:40.985 --> 00:03:42.505 Psychiatry, which is about three  
NOTE Confidence: 0.968836  
00:03:42.505 --> 00:03:43.705 hundred people, it just felt

NOTE Confidence: 0.968836  
00:03:43.705 --> 00:03:44.825 so different when you were  
NOTE Confidence: 0.968836  
00:03:44.825 --> 00:03:46.105 there for a decade versus  
NOTE Confidence: 0.968836  
00:03:46.105 --> 00:03:47.220 coming somewhere new.  
NOTE Confidence: 0.960311  
00:03:48.020 --> 00:03:49.220 These Thursday meetings have been  
NOTE Confidence: 0.960311  
00:03:49.220 --> 00:03:50.340 a great way for me  
NOTE Confidence: 0.960311  
00:03:50.340 --> 00:03:51.220 to get to know people  
NOTE Confidence: 0.960311  
00:03:51.220 --> 00:03:52.340 and know the department a  
NOTE Confidence: 0.960311  
00:03:52.340 --> 00:03:53.300 little bit. So I really  
NOTE Confidence: 0.960311  
00:03:53.300 --> 00:03:54.660 appreciate that. And this was,  
NOTE Confidence: 0.9934713  
00:03:55.300 --> 00:03:56.340 I was very happy to  
NOTE Confidence: 0.9934713  
00:03:56.340 --> 00:03:57.460 be asked to speak here  
NOTE Confidence: 0.9934713  
00:03:57.460 --> 00:03:58.500 and share my work with  
NOTE Confidence: 0.9934713  
00:03:58.500 --> 00:03:59.000 you.  
NOTE Confidence: 0.9782356  
00:04:00.125 --> 00:04:01.084 So the the title of  
NOTE Confidence: 0.9782356  
00:04:01.084 --> 00:04:02.364 my talk is wrong answers  
NOTE Confidence: 0.9782356

00:04:02.364 --> 00:04:03.504 when simple interpretations  
NOTE Confidence: 0.9898315

00:04:04.205 --> 00:04:05.584 create complex problems.  
NOTE Confidence: 0.99861395

00:04:06.444 --> 00:04:07.644 But to set the stage  
NOTE Confidence: 0.99861395

00:04:07.644 --> 00:04:08.525 for this talk, I think  
NOTE Confidence: 0.99861395

00:04:08.525 --> 00:04:09.025 it's  
NOTE Confidence: 0.91734195

00:04:09.325 --> 00:04:10.065 most important.  
NOTE Confidence: 0.9592162

00:04:10.605 --> 00:04:12.285 And since people don't aren't  
NOTE Confidence: 0.9592162

00:04:12.285 --> 00:04:13.405 familiar with me to to  
NOTE Confidence: 0.9592162

00:04:13.405 --> 00:04:14.285 go back a step and  
NOTE Confidence: 0.9592162

00:04:14.285 --> 00:04:15.508 actually actually talk a little  
NOTE Confidence: 0.9592162

00:04:15.508 --> 00:04:16.857 bit how I got here,  
NOTE Confidence: 0.9592162

00:04:16.857 --> 00:04:18.205 and that'll help explain, I  
NOTE Confidence: 0.9592162

00:04:18.205 --> 00:04:19.554 think, where I'm at and  
NOTE Confidence: 0.9592162

00:04:19.554 --> 00:04:20.902 where I I plan to  
NOTE Confidence: 0.9592162

00:04:20.902 --> 00:04:22.250 kind of be heading. So  
NOTE Confidence: 0.9592162

00:04:22.250 --> 00:04:23.599 if I start at the

NOTE Confidence: 0.9592162  
00:04:23.599 --> 00:04:25.217 beginning, it really started with  
NOTE Confidence: 0.9592162  
00:04:25.217 --> 00:04:26.565 the realization that we learn  
NOTE Confidence: 0.9592162  
00:04:26.565 --> 00:04:27.775 about in class all the  
NOTE Confidence: 0.9592162  
00:04:27.775 --> 00:04:28.895 time in school when you're  
NOTE Confidence: 0.9592162  
00:04:28.895 --> 00:04:30.175 you're studying, which is how  
NOTE Confidence: 0.9592162  
00:04:30.175 --> 00:04:32.175 systems and politics affect people's  
NOTE Confidence: 0.9592162  
00:04:32.175 --> 00:04:32.675 health.  
NOTE Confidence: 0.9918588  
00:04:33.295 --> 00:04:34.415 But the part that really  
NOTE Confidence: 0.9918588  
00:04:34.415 --> 00:04:35.214 stuck with me is I  
NOTE Confidence: 0.9918588  
00:04:35.214 --> 00:04:36.675 hadn't really seen that before.  
NOTE Confidence: 0.96459746  
00:04:37.135 --> 00:04:37.935 And on top of not  
NOTE Confidence: 0.96459746  
00:04:37.935 --> 00:04:38.895 seeing it before, I didn't  
NOTE Confidence: 0.96459746  
00:04:38.895 --> 00:04:41.375 understand how divorced evidence was  
NOTE Confidence: 0.96459746  
00:04:41.375 --> 00:04:42.035 from policies  
NOTE Confidence: 0.9872102  
00:04:42.439 --> 00:04:43.400 and how much worse that  
NOTE Confidence: 0.9872102

00:04:43.400 --> 00:04:44.360 was when you're talking about  
NOTE Confidence: 0.9872102

00:04:44.360 --> 00:04:45.960 stigmatized populations, which is something  
NOTE Confidence: 0.9872102

00:04:45.960 --> 00:04:47.159 many of us, I think,  
NOTE Confidence: 0.9872102

00:04:47.159 --> 00:04:48.360 deal with. So I got  
NOTE Confidence: 0.9872102

00:04:48.360 --> 00:04:49.400 to become familiar with that  
NOTE Confidence: 0.9872102

00:04:49.400 --> 00:04:50.779 while working on San Diego's,  
NOTE Confidence: 0.9664035

00:04:51.159 --> 00:04:52.379 safe syringe program.  
NOTE Confidence: 0.994277

00:04:53.560 --> 00:04:54.300 And so  
NOTE Confidence: 0.9648431

00:04:54.615 --> 00:04:55.815 I was really ignorant of  
NOTE Confidence: 0.9648431

00:04:55.815 --> 00:04:57.354 how much politics would affect  
NOTE Confidence: 0.9648431

00:04:57.414 --> 00:04:59.014 day to day life, for  
NOTE Confidence: 0.9648431

00:04:59.014 --> 00:05:00.854 people who used injection drugs  
NOTE Confidence: 0.9648431

00:05:00.854 --> 00:05:02.214 as well as, even the  
NOTE Confidence: 0.9648431

00:05:02.214 --> 00:05:03.654 people who tried to help  
NOTE Confidence: 0.9648431

00:05:03.654 --> 00:05:05.354 people who use injection drugs.  
NOTE Confidence: 0.96148545

00:05:06.790 --> 00:05:08.550 And so in San Diego,

NOTE Confidence: 0.96148545

00:05:08.550 --> 00:05:09.750 we had to operate under

NOTE Confidence: 0.96148545

00:05:09.750 --> 00:05:10.630 a public health state of

NOTE Confidence: 0.96148545

00:05:10.630 --> 00:05:11.990 emergency, which mean every week

NOTE Confidence: 0.96148545

00:05:11.990 --> 00:05:13.029 someone had to vote to

NOTE Confidence: 0.96148545

00:05:13.029 --> 00:05:14.710 say this emergency was still

NOTE Confidence: 0.96148545

00:05:14.710 --> 00:05:15.830 happening or we couldn't even

NOTE Confidence: 0.96148545

00:05:15.830 --> 00:05:16.330 operate.

NOTE Confidence: 0.9981659

00:05:17.270 --> 00:05:18.310 Even on when we did

NOTE Confidence: 0.9981659

00:05:18.310 --> 00:05:19.830 operate, we operated two hours

NOTE Confidence: 0.9981659

00:05:19.830 --> 00:05:20.490 a day,

NOTE Confidence: 0.9703397

00:05:20.870 --> 00:05:21.990 for two days of a

NOTE Confidence: 0.9703397

00:05:21.990 --> 00:05:22.490 week.

NOTE Confidence: 0.9863692

00:05:22.815 --> 00:05:24.175 So four hours total,

NOTE Confidence: 0.9658398

00:05:24.495 --> 00:05:25.615 on a one for one

NOTE Confidence: 0.9658398

00:05:25.615 --> 00:05:27.135 exchange for fifty needles, which

NOTE Confidence: 0.9658398

00:05:27.135 --> 00:05:28.175 meant that basically if anything  
NOTE Confidence: 0.9658398

00:05:28.175 --> 00:05:29.695 happened in somebody's life and  
NOTE Confidence: 0.9658398

00:05:29.695 --> 00:05:30.575 they couldn't make it, they  
NOTE Confidence: 0.9658398

00:05:30.575 --> 00:05:31.855 were not getting needles that  
NOTE Confidence: 0.9658398

00:05:31.855 --> 00:05:33.055 week because you couldn't exchange  
NOTE Confidence: 0.9658398

00:05:33.055 --> 00:05:34.255 for other people really. And  
NOTE Confidence: 0.9658398

00:05:34.255 --> 00:05:35.135 one for one meant if  
NOTE Confidence: 0.9658398

00:05:35.135 --> 00:05:36.180 you didn't have any, the  
NOTE Confidence: 0.9658398

00:05:36.259 --> 00:05:37.639 person who needed it most  
NOTE Confidence: 0.9658398

00:05:37.779 --> 00:05:39.080 couldn't even get any.  
NOTE Confidence: 0.9747592

00:05:39.460 --> 00:05:40.419 And even with those kind  
NOTE Confidence: 0.9747592

00:05:40.419 --> 00:05:41.080 of restrictions,  
NOTE Confidence: 0.9637243

00:05:41.779 --> 00:05:43.300 there were constant news reports  
NOTE Confidence: 0.9637243

00:05:43.300 --> 00:05:45.060 and protesters and everybody else  
NOTE Confidence: 0.9637243

00:05:45.060 --> 00:05:46.259 saying how unhappy they were  
NOTE Confidence: 0.9637243

00:05:46.259 --> 00:05:47.380 about us even being present,

NOTE Confidence: 0.9637243

00:05:47.380 --> 00:05:48.740 which mean we couldn't provide

NOTE Confidence: 0.9637243

00:05:48.740 --> 00:05:50.755 confidentiality and and the services

NOTE Confidence: 0.9637243

00:05:50.755 --> 00:05:51.955 that we really were trying

NOTE Confidence: 0.9637243

00:05:51.955 --> 00:05:52.535 to provide.

NOTE Confidence: 0.99750304

00:05:52.995 --> 00:05:53.875 And even on the best

NOTE Confidence: 0.99750304

00:05:53.875 --> 00:05:54.375 days,

NOTE Confidence: 0.97188467

00:05:54.835 --> 00:05:56.455 and everything was working perfectly,

NOTE Confidence: 0.97188467

00:05:56.515 --> 00:05:57.555 our one of our jobs

NOTE Confidence: 0.97188467

00:05:57.555 --> 00:05:58.935 was to get people into

NOTE Confidence: 0.97188467

00:05:58.995 --> 00:06:00.515 detox. And back in the

NOTE Confidence: 0.97188467

00:06:00.515 --> 00:06:01.635 early two thousands when I

NOTE Confidence: 0.97188467

00:06:01.635 --> 00:06:03.955 worked there, buprenorphine was almost

NOTE Confidence: 0.97188467

00:06:03.955 --> 00:06:05.639 unheard of. It was very

NOTE Confidence: 0.97188467

00:06:05.639 --> 00:06:06.680 rare to see.

NOTE Confidence: 0.9629753

00:06:07.000 --> 00:06:08.759 Methadone was at two places

NOTE Confidence: 0.9629753

00:06:08.759 --> 00:06:09.880 in a town of thirty  
NOTE Confidence: 0.9629753

00:06:10.039 --> 00:06:11.479 three million or so. So  
NOTE Confidence: 0.9629753

00:06:11.479 --> 00:06:12.839 there was only cold turkey  
NOTE Confidence: 0.9629753

00:06:12.839 --> 00:06:14.039 detox. That was all that  
NOTE Confidence: 0.9629753

00:06:14.039 --> 00:06:15.000 we had access to. And  
NOTE Confidence: 0.9629753

00:06:15.000 --> 00:06:16.120 there was twenty beds in  
NOTE Confidence: 0.9629753

00:06:16.120 --> 00:06:17.185 the whole city. So you  
NOTE Confidence: 0.9629753

00:06:17.185 --> 00:06:18.145 kinda had to let the  
NOTE Confidence: 0.9629753

00:06:18.145 --> 00:06:19.425 stars align to make things  
NOTE Confidence: 0.9629753

00:06:19.425 --> 00:06:20.785 work. So we had this  
NOTE Confidence: 0.9629753

00:06:20.785 --> 00:06:21.825 population you were trying to  
NOTE Confidence: 0.9629753

00:06:21.825 --> 00:06:22.325 help,  
NOTE Confidence: 0.9858949

00:06:22.705 --> 00:06:23.745 and it seemed like every  
NOTE Confidence: 0.9858949

00:06:23.745 --> 00:06:25.425 single system was working against  
NOTE Confidence: 0.9858949

00:06:25.425 --> 00:06:25.925 you.  
NOTE Confidence: 0.9965239

00:06:26.225 --> 00:06:27.505 And so that's kind of

NOTE Confidence: 0.9965239

00:06:27.505 --> 00:06:28.865 where I wanted to head

NOTE Confidence: 0.9965239

00:06:28.865 --> 00:06:30.065 today a little bit, to

NOTE Confidence: 0.9965239

00:06:30.065 --> 00:06:31.380 understand why that happens.

NOTE Confidence: 0.9804523

00:06:31.940 --> 00:06:32.740 But one of the the

NOTE Confidence: 0.9804523

00:06:32.740 --> 00:06:33.940 big takeaways that I learned

NOTE Confidence: 0.9804523

00:06:33.940 --> 00:06:34.760 from this was

NOTE Confidence: 0.99742985

00:06:35.300 --> 00:06:36.839 the importance of

NOTE Confidence: 0.98872167

00:06:37.140 --> 00:06:38.580 learning from the population that's

NOTE Confidence: 0.98872167

00:06:38.580 --> 00:06:40.260 affected and having conversations and

NOTE Confidence: 0.98872167

00:06:40.260 --> 00:06:41.140 interactions with them and how

NOTE Confidence: 0.98872167

00:06:41.140 --> 00:06:41.779 I think some of the

NOTE Confidence: 0.98872167

00:06:41.779 --> 00:06:43.240 best questions come from that,

NOTE Confidence: 0.96551687

00:06:43.779 --> 00:06:45.055 from those interactions. And so

NOTE Confidence: 0.96551687

00:06:45.055 --> 00:06:45.855 one of the things that

NOTE Confidence: 0.96551687

00:06:45.855 --> 00:06:47.055 I became very aware of

NOTE Confidence: 0.96551687

00:06:47.055 --> 00:06:48.095 when I started working there  
NOTE Confidence: 0.96551687

00:06:48.095 --> 00:06:49.775 was abscesses. I had not  
NOTE Confidence: 0.96551687

00:06:49.775 --> 00:06:51.135 been exposed to abscesses, not  
NOTE Confidence: 0.96551687

00:06:51.135 --> 00:06:52.595 working in that population before.  
NOTE Confidence: 0.96551687

00:06:52.654 --> 00:06:53.695 I didn't realize how prevalent  
NOTE Confidence: 0.96551687

00:06:53.695 --> 00:06:54.654 they were. I didn't understand  
NOTE Confidence: 0.96551687

00:06:54.654 --> 00:06:55.855 how people dealt with them.  
NOTE Confidence: 0.96551687

00:06:56.175 --> 00:06:57.235 You're dealing with a population  
NOTE Confidence: 0.96551687

00:06:57.294 --> 00:06:58.255 that did not trust any  
NOTE Confidence: 0.96551687

00:06:58.255 --> 00:06:59.339 authority and that included the  
NOTE Confidence: 0.96551687

00:06:59.419 --> 00:07:00.380 medical community for the most  
NOTE Confidence: 0.96551687

00:07:00.380 --> 00:07:01.820 part. So there's a lot  
NOTE Confidence: 0.96551687

00:07:01.820 --> 00:07:03.339 of self treatment happening. I  
NOTE Confidence: 0.96551687

00:07:03.419 --> 00:07:05.020 one conversation sticks with me  
NOTE Confidence: 0.96551687

00:07:05.020 --> 00:07:07.120 even particularly where an individual  
NOTE Confidence: 0.96551687

00:07:07.260 --> 00:07:07.979 tried to take care of

NOTE Confidence: 0.96551687

00:07:07.979 --> 00:07:09.500 an abscess by pulling out

NOTE Confidence: 0.96551687

00:07:09.500 --> 00:07:10.800 the fluid with a syringe,

NOTE Confidence: 0.96551687

00:07:10.940 --> 00:07:12.060 and it looked like heroin,

NOTE Confidence: 0.96551687

00:07:12.060 --> 00:07:13.660 so they decided to mainline

NOTE Confidence: 0.96551687

00:07:13.660 --> 00:07:14.595 inject it again.

NOTE Confidence: 0.97907764

00:07:15.555 --> 00:07:16.595 So there was a lot

NOTE Confidence: 0.97907764

00:07:16.595 --> 00:07:18.295 of misinformation that was happening

NOTE Confidence: 0.97907764

00:07:18.435 --> 00:07:19.655 and a lot of choices

NOTE Confidence: 0.97907764

00:07:19.715 --> 00:07:21.555 that, were happening because there

NOTE Confidence: 0.97907764

00:07:21.555 --> 00:07:22.675 was systems that weren't in

NOTE Confidence: 0.97907764

00:07:22.675 --> 00:07:24.195 place. And so I'm particularly

NOTE Confidence: 0.97907764

00:07:24.195 --> 00:07:25.155 proud. It was my first

NOTE Confidence: 0.97907764

00:07:25.155 --> 00:07:26.835 paper that I wrote. It

NOTE Confidence: 0.97907764

00:07:26.835 --> 00:07:28.515 really brought light to self

NOTE Confidence: 0.97907764

00:07:28.515 --> 00:07:30.260 care or of wounds, which

NOTE Confidence: 0.97907764

00:07:30.260 --> 00:07:31.140 was something that wasn't in  
NOTE Confidence: 0.97907764

00:07:31.140 --> 00:07:32.760 the literature at that point.  
NOTE Confidence: 0.95065457

00:07:33.860 --> 00:07:34.820 You know, we found that  
NOTE Confidence: 0.95065457

00:07:34.820 --> 00:07:35.780 about half of people in  
NOTE Confidence: 0.95065457

00:07:35.780 --> 00:07:36.820 San Diego or half of  
NOTE Confidence: 0.95065457

00:07:36.820 --> 00:07:38.420 clients of syringe exchange programs  
NOTE Confidence: 0.95065457

00:07:38.420 --> 00:07:39.620 were self treating. Most of  
NOTE Confidence: 0.95065457

00:07:39.620 --> 00:07:41.460 that was with, self lancing  
NOTE Confidence: 0.95065457

00:07:41.460 --> 00:07:42.705 with about a third of  
NOTE Confidence: 0.95065457

00:07:42.705 --> 00:07:43.745 them doing that, and then  
NOTE Confidence: 0.95065457

00:07:43.745 --> 00:07:45.045 about ten percent using,  
NOTE Confidence: 0.97358996

00:07:45.745 --> 00:07:47.825 illegally purchased antibiotics. So it  
NOTE Confidence: 0.97358996

00:07:47.825 --> 00:07:49.105 was something that was prevalent  
NOTE Confidence: 0.97358996

00:07:49.105 --> 00:07:50.065 and it's become a lot  
NOTE Confidence: 0.97358996

00:07:50.065 --> 00:07:51.105 more discussed, but at the  
NOTE Confidence: 0.97358996

00:07:51.105 --> 00:07:52.785 time it really didn't seem

NOTE Confidence: 0.97358996  
00:07:52.785 --> 00:07:53.425 to be part of it.  
NOTE Confidence: 0.97358996  
00:07:53.425 --> 00:07:54.405 And I think that  
NOTE Confidence: 0.9892869  
00:07:54.790 --> 00:07:55.670 one of those things that  
NOTE Confidence: 0.9892869  
00:07:55.670 --> 00:07:56.390 we get away from the  
NOTE Confidence: 0.9892869  
00:07:56.390 --> 00:07:57.830 wrong answers is by having  
NOTE Confidence: 0.9892869  
00:07:57.830 --> 00:07:59.430 conversations with people most affected.  
NOTE Confidence: 0.974545  
00:08:01.190 --> 00:08:02.070 So this is a place  
NOTE Confidence: 0.974545  
00:08:02.070 --> 00:08:03.350 where I really entered my  
NOTE Confidence: 0.974545  
00:08:03.350 --> 00:08:05.350 research, learning about the struggles  
NOTE Confidence: 0.974545  
00:08:05.350 --> 00:08:06.710 and experiences of people with  
NOTE Confidence: 0.974545  
00:08:06.710 --> 00:08:07.210 addictions,  
NOTE Confidence: 0.98512393  
00:08:07.935 --> 00:08:09.055 the risk factors that were  
NOTE Confidence: 0.98512393  
00:08:09.055 --> 00:08:10.014 in place, many of them  
NOTE Confidence: 0.98512393  
00:08:10.014 --> 00:08:11.555 completely preventable, and  
NOTE Confidence: 0.96130115  
00:08:12.014 --> 00:08:13.775 the the national and local  
NOTE Confidence: 0.96130115

00:08:13.775 --> 00:08:16.014 systems and policies that really  
NOTE Confidence: 0.96130115

00:08:16.014 --> 00:08:16.835 worked against,  
NOTE Confidence: 0.93489796

00:08:17.694 --> 00:08:19.215 kinda changing the health environment  
NOTE Confidence: 0.93489796

00:08:19.215 --> 00:08:20.194 where people worked.  
NOTE Confidence: 0.95330286

00:08:20.974 --> 00:08:22.275 So the question then  
NOTE Confidence: 0.9445061

00:08:22.620 --> 00:08:23.980 becomes, why does why are  
NOTE Confidence: 0.9445061

00:08:23.980 --> 00:08:25.500 the systems in place? And  
NOTE Confidence: 0.9445061

00:08:25.500 --> 00:08:26.860 this really includes both research  
NOTE Confidence: 0.9445061

00:08:26.860 --> 00:08:28.000 and political systems,  
NOTE Confidence: 0.97753567

00:08:28.700 --> 00:08:29.900 and how do they produce  
NOTE Confidence: 0.97753567

00:08:29.900 --> 00:08:32.220 these bad policies or harmful  
NOTE Confidence: 0.97753567

00:08:32.220 --> 00:08:33.200 policies even?  
NOTE Confidence: 0.9757016

00:08:34.904 --> 00:08:35.704 And so that's what I'm  
NOTE Confidence: 0.9757016

00:08:35.704 --> 00:08:36.904 gonna talk about here today.  
NOTE Confidence: 0.9757016

00:08:36.904 --> 00:08:38.024 I'm gonna bring up two  
NOTE Confidence: 0.9757016

00:08:38.024 --> 00:08:39.704 different, points and two different

NOTE Confidence: 0.9757016  
00:08:39.704 --> 00:08:40.684 intertwined issues  
NOTE Confidence: 0.9116529  
00:08:41.144 --> 00:08:42.745 and give examples from my  
NOTE Confidence: 0.9116529  
00:08:42.745 --> 00:08:43.865 own research here. So one  
NOTE Confidence: 0.9116529  
00:08:43.865 --> 00:08:44.365 is  
NOTE Confidence: 0.8979586  
00:08:44.745 --> 00:08:46.264 the decision that often happens  
NOTE Confidence: 0.8979586  
00:08:46.264 --> 00:08:47.005 in prioritizing  
NOTE Confidence: 0.9970324  
00:08:47.330 --> 00:08:49.030 policy and research that focuses  
NOTE Confidence: 0.9970324  
00:08:49.090 --> 00:08:51.010 on identifying and intervening with  
NOTE Confidence: 0.9970324  
00:08:51.010 --> 00:08:51.990 high risk populations.  
NOTE Confidence: 0.98011965  
00:08:52.770 --> 00:08:54.390 It's a general approach. It's  
NOTE Confidence: 0.98011965  
00:08:54.450 --> 00:08:55.330 what we tend to do  
NOTE Confidence: 0.98011965  
00:08:55.330 --> 00:08:56.610 where especially if there's a  
NOTE Confidence: 0.98011965  
00:08:56.610 --> 00:08:57.890 very high risk group, there's  
NOTE Confidence: 0.98011965  
00:08:57.890 --> 00:08:59.490 a a tendency to other  
NOTE Confidence: 0.98011965  
00:08:59.490 --> 00:09:00.450 that group and say they're  
NOTE Confidence: 0.98011965

00:09:00.450 --> 00:09:01.670 not part of our population,  
NOTE Confidence: 0.98011965

00:09:01.730 --> 00:09:03.214 and we can intervene with  
NOTE Confidence: 0.98011965

00:09:03.214 --> 00:09:04.675 just them instead of understanding  
NOTE Confidence: 0.98011965

00:09:04.735 --> 00:09:05.855 that that part of the  
NOTE Confidence: 0.98011965

00:09:05.855 --> 00:09:06.894 population is part of the  
NOTE Confidence: 0.98011965

00:09:06.894 --> 00:09:07.875 whole risk distribution.  
NOTE Confidence: 0.95149994

00:09:08.255 --> 00:09:08.975 We need to see the  
NOTE Confidence: 0.95149994

00:09:08.975 --> 00:09:10.654 whole risk distribution. And so,  
NOTE Confidence: 0.95149994

00:09:10.975 --> 00:09:12.015 but but that's something that's  
NOTE Confidence: 0.95149994

00:09:12.015 --> 00:09:13.295 rarely done, and especially in  
NOTE Confidence: 0.95149994

00:09:13.295 --> 00:09:13.795 addiction,  
NOTE Confidence: 0.9994169

00:09:14.334 --> 00:09:15.375 we don't tend to think  
NOTE Confidence: 0.9994169

00:09:15.375 --> 00:09:16.115 this way.  
NOTE Confidence: 0.9824469

00:09:16.860 --> 00:09:17.820 The second issue is more  
NOTE Confidence: 0.9824469

00:09:17.820 --> 00:09:19.500 of a scientific issue. It's  
NOTE Confidence: 0.9824469

00:09:19.500 --> 00:09:20.940 an approach to causation that's

NOTE Confidence: 0.9824469

00:09:20.940 --> 00:09:22.620 really prioritizing what's easy to

NOTE Confidence: 0.9824469

00:09:22.620 --> 00:09:24.960 measure, what's, easily accessible,

NOTE Confidence: 0.9399429

00:09:25.500 --> 00:09:27.500 the quantitative data, ignoring some

NOTE Confidence: 0.9399429

00:09:27.500 --> 00:09:29.020 of those harder to measure

NOTE Confidence: 0.9399429

00:09:29.020 --> 00:09:30.160 and quantify or

NOTE Confidence: 0.9797364

00:09:30.545 --> 00:09:32.625 quantify, qualitative factors that matter

NOTE Confidence: 0.9797364

00:09:32.625 --> 00:09:34.245 so much. And I'll introduce

NOTE Confidence: 0.9797364

00:09:34.305 --> 00:09:35.845 what's called the McNamara fallacy,

NOTE Confidence: 0.99673903

00:09:36.385 --> 00:09:37.905 and how that plays into

NOTE Confidence: 0.99673903

00:09:37.905 --> 00:09:38.865 this work in the second

NOTE Confidence: 0.99673903

00:09:38.865 --> 00:09:40.005 half of this talk.

NOTE Confidence: 0.9211487

00:09:40.625 --> 00:09:41.505 So I'm gonna try to

NOTE Confidence: 0.9211487

00:09:41.505 --> 00:09:42.465 cover all this in the

NOTE Confidence: 0.9211487

00:09:42.465 --> 00:09:44.600 next twenty five minutes or

NOTE Confidence: 0.9211487

00:09:44.600 --> 00:09:45.100 so.

NOTE Confidence: 0.9761954

00:09:45.640 --> 00:09:46.600 And as I said, give  
NOTE Confidence: 0.9761954

00:09:46.600 --> 00:09:47.640 some examples from my work  
NOTE Confidence: 0.9761954

00:09:47.640 --> 00:09:48.280 and how we've kind of  
NOTE Confidence: 0.9761954

00:09:48.280 --> 00:09:49.160 looked into this. So if  
NOTE Confidence: 0.9761954

00:09:49.160 --> 00:09:50.200 we start with the high  
NOTE Confidence: 0.9761954

00:09:50.200 --> 00:09:51.420 risk prevention strategy,  
NOTE Confidence: 0.9696416

00:09:53.080 --> 00:09:54.040 so for those who are  
NOTE Confidence: 0.9696416

00:09:54.040 --> 00:09:55.720 not familiar with this, gentleman  
NOTE Confidence: 0.9696416

00:09:55.720 --> 00:09:56.840 here, this is Jeffrey Rose.  
NOTE Confidence: 0.9696416

00:09:56.840 --> 00:09:57.725 He's been been one of  
NOTE Confidence: 0.9696416

00:09:57.725 --> 00:09:58.925 the most influential people, I  
NOTE Confidence: 0.9696416

00:09:58.925 --> 00:10:00.045 think, in my my work.  
NOTE Confidence: 0.9696416

00:10:00.285 --> 00:10:01.485 He wrote this brilliant book  
NOTE Confidence: 0.9696416

00:10:01.485 --> 00:10:03.425 on the strategies of preventative  
NOTE Confidence: 0.9696416

00:10:03.485 --> 00:10:03.985 medicine.  
NOTE Confidence: 0.9884338

00:10:04.845 --> 00:10:05.345 And,

NOTE Confidence: 0.9715528  
00:10:06.605 --> 00:10:07.885 it's one of the big  
NOTE Confidence: 0.9715528  
00:10:07.885 --> 00:10:09.325 takeaways of the book was  
NOTE Confidence: 0.9715528  
00:10:09.325 --> 00:10:11.165 that the difference in prevalence  
NOTE Confidence: 0.9715528  
00:10:11.165 --> 00:10:12.480 of an outcome in different  
NOTE Confidence: 0.9715528  
00:10:12.480 --> 00:10:13.760 populations is really due to  
NOTE Confidence: 0.9715528  
00:10:13.760 --> 00:10:14.740 the different states  
NOTE Confidence: 0.9951018  
00:10:15.120 --> 00:10:16.080 of the health of the  
NOTE Confidence: 0.9951018  
00:10:16.080 --> 00:10:16.900 parent communities.  
NOTE Confidence: 0.9523721  
00:10:17.760 --> 00:10:19.280 The slide is a lot,  
NOTE Confidence: 0.9523721  
00:10:19.280 --> 00:10:20.080 so I'll try to kinda  
NOTE Confidence: 0.9523721  
00:10:20.080 --> 00:10:20.800 walk you through it because  
NOTE Confidence: 0.9523721  
00:10:20.800 --> 00:10:21.760 I think it's important to  
NOTE Confidence: 0.9523721  
00:10:21.760 --> 00:10:23.360 explain what we did to  
NOTE Confidence: 0.9523721  
00:10:23.360 --> 00:10:24.480 demonstrate a lot of this  
NOTE Confidence: 0.9523721  
00:10:24.480 --> 00:10:24.980 work.  
NOTE Confidence: 0.95294094

00:10:25.565 --> 00:10:26.445 And so what you what  
NOTE Confidence: 0.95294094

00:10:26.445 --> 00:10:27.325 you have here is in  
NOTE Confidence: 0.95294094

00:10:27.325 --> 00:10:28.925 the the light orange or  
NOTE Confidence: 0.95294094

00:10:28.925 --> 00:10:31.345 tan is, a population's distribution.  
NOTE Confidence: 0.95294094

00:10:31.485 --> 00:10:32.605 And in that far right  
NOTE Confidence: 0.95294094

00:10:32.605 --> 00:10:33.725 corner, we have that part  
NOTE Confidence: 0.95294094

00:10:33.725 --> 00:10:35.105 that's at the highest risk.  
NOTE Confidence: 0.9570254

00:10:35.645 --> 00:10:36.684 Right? And so a lot  
NOTE Confidence: 0.9570254

00:10:36.684 --> 00:10:37.565 of times when we think  
NOTE Confidence: 0.9570254

00:10:37.565 --> 00:10:38.950 about what to do with  
NOTE Confidence: 0.9570254

00:10:38.950 --> 00:10:40.470 this situation and what policy  
NOTE Confidence: 0.9570254

00:10:40.470 --> 00:10:41.910 makers tend to do, we  
NOTE Confidence: 0.9570254

00:10:41.910 --> 00:10:42.950 tend to focus on that  
NOTE Confidence: 0.9570254

00:10:42.950 --> 00:10:44.630 far right dark orange corner  
NOTE Confidence: 0.9570254

00:10:44.630 --> 00:10:45.429 and say, how can we  
NOTE Confidence: 0.9570254

00:10:45.429 --> 00:10:46.950 move them out? How can

NOTE Confidence: 0.9570254

00:10:46.950 --> 00:10:47.990 we move that group over?

NOTE Confidence: 0.9570254

00:10:47.990 --> 00:10:48.630 So a lot of that's

NOTE Confidence: 0.9570254

00:10:48.630 --> 00:10:50.149 done through identification of high

NOTE Confidence: 0.9570254

00:10:50.149 --> 00:10:51.350 risk people and then treatment

NOTE Confidence: 0.9570254

00:10:51.350 --> 00:10:52.570 of high risk people or

NOTE Confidence: 0.9570254

00:10:52.815 --> 00:10:54.895 identification and linking to another

NOTE Confidence: 0.9570254

00:10:54.895 --> 00:10:55.395 care.

NOTE Confidence: 0.9502651

00:10:56.495 --> 00:10:58.335 And it's less often done,

NOTE Confidence: 0.9502651

00:10:58.335 --> 00:10:59.554 especially with stigmatized,

NOTE Confidence: 0.97493005

00:11:00.335 --> 00:11:02.095 conditions and outcomes. Thinking about

NOTE Confidence: 0.97493005

00:11:02.095 --> 00:11:03.135 how we can shift that

NOTE Confidence: 0.97493005

00:11:03.135 --> 00:11:04.495 whole distribution, which is more

NOTE Confidence: 0.97493005

00:11:04.495 --> 00:11:06.115 of that population based approach.

NOTE Confidence: 0.97493005

00:11:06.300 --> 00:11:07.820 So how can we take

NOTE Confidence: 0.97493005

00:11:07.820 --> 00:11:08.779 the people that are normal

NOTE Confidence: 0.97493005

00:11:08.779 --> 00:11:09.580 and bring them to low?  
NOTE Confidence: 0.97493005

00:11:09.580 --> 00:11:10.380 How can we take people  
NOTE Confidence: 0.97493005

00:11:10.380 --> 00:11:11.019 that are high and bring  
NOTE Confidence: 0.97493005

00:11:11.019 --> 00:11:12.380 them to normal? And at  
NOTE Confidence: 0.97493005

00:11:12.380 --> 00:11:13.260 the same time when we  
NOTE Confidence: 0.97493005

00:11:13.260 --> 00:11:14.459 do that, we're also moving  
NOTE Confidence: 0.97493005

00:11:14.459 --> 00:11:15.600 the high group out.  
NOTE Confidence: 0.99543554

00:11:15.980 --> 00:11:17.839 And this is, an approach  
NOTE Confidence: 0.99848586

00:11:18.220 --> 00:11:18.940 that is,  
NOTE Confidence: 0.97093475

00:11:19.775 --> 00:11:20.454 as I said, it's it's  
NOTE Confidence: 0.97093475

00:11:20.735 --> 00:11:22.335 it is used. We see  
NOTE Confidence: 0.97093475

00:11:22.335 --> 00:11:24.355 it frequently used, with  
NOTE Confidence: 0.9641487

00:11:24.735 --> 00:11:26.175 more common conditions and less  
NOTE Confidence: 0.9641487

00:11:26.175 --> 00:11:28.015 stigmatized conditions, things like blood  
NOTE Confidence: 0.9641487

00:11:28.015 --> 00:11:28.975 pressure. You know, you would  
NOTE Confidence: 0.9641487

00:11:28.975 --> 00:11:30.095 definitely have this be a

NOTE Confidence: 0.9641487  
00:11:30.095 --> 00:11:31.635 population based approach usually.  
NOTE Confidence: 0.9714594  
00:11:32.015 --> 00:11:33.295 But things like addiction, it  
NOTE Confidence: 0.9714594  
00:11:33.295 --> 00:11:34.230 usually is not.  
NOTE Confidence: 0.95148224  
00:11:34.949 --> 00:11:36.070 And in in the example  
NOTE Confidence: 0.95148224  
00:11:36.070 --> 00:11:37.589 that I'm gonna give, one  
NOTE Confidence: 0.95148224  
00:11:37.589 --> 00:11:38.309 of the ways that we  
NOTE Confidence: 0.95148224  
00:11:38.309 --> 00:11:39.269 went to look at this  
NOTE Confidence: 0.95148224  
00:11:39.269 --> 00:11:40.790 was actually something that comes  
NOTE Confidence: 0.95148224  
00:11:40.790 --> 00:11:42.870 up frequently with firearms and  
NOTE Confidence: 0.95148224  
00:11:42.870 --> 00:11:43.769 mental illness.  
NOTE Confidence: 0.96324694  
00:11:44.470 --> 00:11:45.990 And so a predictable cycle  
NOTE Confidence: 0.96324694  
00:11:45.990 --> 00:11:47.765 that happens every time there  
NOTE Confidence: 0.96324694  
00:11:47.765 --> 00:11:48.565 seems to be a mass  
NOTE Confidence: 0.96324694  
00:11:48.565 --> 00:11:50.165 shooting is a discussion about  
NOTE Confidence: 0.96324694  
00:11:50.165 --> 00:11:51.204 the role of mental illness  
NOTE Confidence: 0.96324694

00:11:51.204 --> 00:11:52.325 and firearm deaths and the  
NOTE Confidence: 0.96324694

00:11:52.325 --> 00:11:53.365 need to focus on that  
NOTE Confidence: 0.96324694

00:11:53.365 --> 00:11:54.885 high risk group compared to  
NOTE Confidence: 0.96324694

00:11:54.885 --> 00:11:56.005 your population approach, which is  
NOTE Confidence: 0.96324694

00:11:56.005 --> 00:11:57.385 gonna move the whole distribution.  
NOTE Confidence: 0.92633283

00:11:59.030 --> 00:12:00.390 So in a collaboration with  
NOTE Confidence: 0.92633283

00:12:00.390 --> 00:12:01.929 some colleagues at at Columbia  
NOTE Confidence: 0.92633283

00:12:01.990 --> 00:12:04.230 and NYU, which include, Magdalena  
NOTE Confidence: 0.92633283

00:12:04.230 --> 00:12:05.670 Serta, who's will be joining  
NOTE Confidence: 0.92633283

00:12:05.670 --> 00:12:06.790 the school of public health  
NOTE Confidence: 0.92633283

00:12:06.790 --> 00:12:08.070 as the new chair of  
NOTE Confidence: 0.92633283

00:12:08.070 --> 00:12:09.610 chronic disease epi.  
NOTE Confidence: 0.96047527

00:12:10.150 --> 00:12:10.950 So we carried out a  
NOTE Confidence: 0.96047527

00:12:10.950 --> 00:12:12.309 study to better understand the  
NOTE Confidence: 0.96047527

00:12:12.309 --> 00:12:13.590 narrative of firearm and mental  
NOTE Confidence: 0.96047527

00:12:13.590 --> 00:12:14.090 illness

NOTE Confidence: 0.9892558  
00:12:14.405 --> 00:12:15.865 and to compare a targeted,  
NOTE Confidence: 0.98638326  
00:12:16.245 --> 00:12:17.765 high risk approach versus more  
NOTE Confidence: 0.98638326  
00:12:17.765 --> 00:12:19.225 of the population based approach,  
NOTE Confidence: 0.99836147  
00:12:19.765 --> 00:12:21.145 in an agent based model.  
NOTE Confidence: 0.9971565  
00:12:21.925 --> 00:12:22.665 And so  
NOTE Confidence: 0.994183  
00:12:23.125 --> 00:12:24.005 for those who are not  
NOTE Confidence: 0.994183  
00:12:24.005 --> 00:12:25.125 familiar with an agent based  
NOTE Confidence: 0.994183  
00:12:25.125 --> 00:12:25.625 model,  
NOTE Confidence: 0.9685869  
00:12:26.645 --> 00:12:27.765 basically, what this is is  
NOTE Confidence: 0.9685869  
00:12:27.765 --> 00:12:28.965 it's a way to model  
NOTE Confidence: 0.9685869  
00:12:28.965 --> 00:12:30.300 dynamics of a changing system  
NOTE Confidence: 0.9685869  
00:12:30.300 --> 00:12:31.980 to better understand how if  
NOTE Confidence: 0.9685869  
00:12:31.980 --> 00:12:33.179 you shift or move one  
NOTE Confidence: 0.9685869  
00:12:33.179 --> 00:12:34.300 piece of it, how you  
NOTE Confidence: 0.9685869  
00:12:34.300 --> 00:12:35.600 have downstream effects.  
NOTE Confidence: 0.99040854

00:12:36.380 --> 00:12:37.260 And you do that by  
NOTE Confidence: 0.99040854

00:12:37.260 --> 00:12:39.740 simulating agents, which are basically  
NOTE Confidence: 0.99040854

00:12:39.740 --> 00:12:41.120 individuals. And those individuals,  
NOTE Confidence: 0.9736155

00:12:41.740 --> 00:12:43.260 they live within a environment.  
NOTE Confidence: 0.9736155

00:12:43.260 --> 00:12:44.700 They have characteristics of that  
NOTE Confidence: 0.9736155

00:12:44.700 --> 00:12:45.705 environment. They interact  
NOTE Confidence: 0.9727487

00:12:50.505 --> 00:12:50.541 with each other. They interact  
NOTE Confidence: 0.9727487

00:12:50.541 --> 00:12:50.592 with their the sit the  
NOTE Confidence: 0.9727487

00:12:50.592 --> 00:12:50.635 situation. And you can do  
NOTE Confidence: 0.9727487

00:12:50.635 --> 00:12:50.825 it for a city like  
NOTE Confidence: 0.9727487

00:12:50.825 --> 00:12:51.705 we did for the adult  
NOTE Confidence: 0.9727487

00:12:51.705 --> 00:12:53.085 population of New York.  
NOTE Confidence: 0.997597

00:12:53.865 --> 00:12:54.905 And so you place these  
NOTE Confidence: 0.997597

00:12:54.905 --> 00:12:55.405 individuals  
NOTE Confidence: 0.9737289

00:12:55.785 --> 00:12:57.465 within their communities. And as  
NOTE Confidence: 0.9737289

00:12:57.465 --> 00:12:58.905 people become eighteen years old,

NOTE Confidence: 0.9737289

00:12:58.905 --> 00:13:00.660 they, you know, move through

NOTE Confidence: 0.9737289

00:13:00.660 --> 00:13:02.179 different risk strata and different

NOTE Confidence: 0.9737289

00:13:02.179 --> 00:13:02.679 occurrences.

NOTE Confidence: 0.98683876

00:13:03.460 --> 00:13:04.820 And they live their life

NOTE Confidence: 0.98683876

00:13:04.820 --> 00:13:05.700 cycle in that way. And

NOTE Confidence: 0.98683876

00:13:05.700 --> 00:13:06.500 so this is all done

NOTE Confidence: 0.98683876

00:13:06.500 --> 00:13:07.960 through a bunch of equations

NOTE Confidence: 0.98683876

00:13:08.020 --> 00:13:08.520 essentially.

NOTE Confidence: 0.9795564

00:13:09.460 --> 00:13:10.500 And this is what those

NOTE Confidence: 0.9795564

00:13:10.500 --> 00:13:11.860 schematic looks like. It's very

NOTE Confidence: 0.9795564

00:13:11.860 --> 00:13:13.875 complex. It's not the simple

NOTE Confidence: 0.9795564

00:13:13.875 --> 00:13:15.395 one one cause, you know,

NOTE Confidence: 0.9795564

00:13:15.395 --> 00:13:16.915 one outcome thing. And this

NOTE Confidence: 0.9795564

00:13:16.915 --> 00:13:17.795 is a lot to look

NOTE Confidence: 0.9795564

00:13:17.795 --> 00:13:19.715 at. So if we kinda

NOTE Confidence: 0.9795564

00:13:19.715 --> 00:13:20.675 zoom in here on the  
NOTE Confidence: 0.9795564

00:13:20.675 --> 00:13:22.355 social network characteristics, you can  
NOTE Confidence: 0.9795564

00:13:22.355 --> 00:13:24.355 see that agents form and  
NOTE Confidence: 0.9795564

00:13:24.355 --> 00:13:26.035 and dissolve social ties. They  
NOTE Confidence: 0.9795564

00:13:26.035 --> 00:13:27.395 have friends who were who  
NOTE Confidence: 0.9795564

00:13:27.395 --> 00:13:28.835 are perpetrators and victims of  
NOTE Confidence: 0.9795564

00:13:28.835 --> 00:13:30.410 violence and some who own  
NOTE Confidence: 0.9795564

00:13:30.410 --> 00:13:31.870 firearms. And with each iteration,  
NOTE Confidence: 0.962173

00:13:32.250 --> 00:13:33.690 the agents move through their  
NOTE Confidence: 0.962173

00:13:33.690 --> 00:13:34.589 lives essentially.  
NOTE Confidence: 0.99180984

00:13:35.610 --> 00:13:37.309 And so to look at  
NOTE Confidence: 0.99180984

00:13:37.450 --> 00:13:39.050 these different prevention strategies and  
NOTE Confidence: 0.99180984

00:13:39.050 --> 00:13:41.130 what and demonstrate their utility  
NOTE Confidence: 0.99180984

00:13:41.130 --> 00:13:42.429 in this kind of situation,  
NOTE Confidence: 0.9843547

00:13:44.045 --> 00:13:44.925 We looked at three different  
NOTE Confidence: 0.9843547

00:13:44.925 --> 00:13:46.145 groups for disqualification.

NOTE Confidence: 0.99840313

00:13:46.605 --> 00:13:47.585 So we looked

NOTE Confidence: 0.9403875

00:13:47.965 --> 00:13:49.085 at the the first group

NOTE Confidence: 0.9403875

00:13:49.085 --> 00:13:50.285 is the low prevalence group,

NOTE Confidence: 0.9403875

00:13:50.285 --> 00:13:51.405 and this actually does include

NOTE Confidence: 0.9403875

00:13:51.405 --> 00:13:52.705 the psychiatric hospitalizations.

NOTE Confidence: 0.9043319

00:13:53.565 --> 00:13:54.845 Sorry, I shouldn't say convictions.

NOTE Confidence: 0.9043319

00:13:54.845 --> 00:13:55.965 It should be just psychiatric

NOTE Confidence: 0.9043319

00:13:55.965 --> 00:13:56.465 hospitalizations,

NOTE Confidence: 0.99172586

00:13:57.820 --> 00:13:58.620 as well as people that

NOTE Confidence: 0.99172586

00:13:58.620 --> 00:14:00.300 are alcohol related misdemeanors. And

NOTE Confidence: 0.99172586

00:14:00.300 --> 00:14:01.580 so this group is the

NOTE Confidence: 0.99172586

00:14:01.580 --> 00:14:03.020 lowest prevalence group in the

NOTE Confidence: 0.99172586

00:14:03.020 --> 00:14:04.220 population. It's about a quarter

NOTE Confidence: 0.99172586

00:14:04.220 --> 00:14:04.960 of a percent.

NOTE Confidence: 0.9194067

00:14:07.020 --> 00:14:07.900 The next group is the

NOTE Confidence: 0.9194067

00:14:07.900 --> 00:14:09.260 moderate prevalence group, and so  
NOTE Confidence: 0.9194067

00:14:09.260 --> 00:14:10.940 this is drug misdemeanor convictions  
NOTE Confidence: 0.9194067

00:14:10.940 --> 00:14:12.785 and domestic violence restraining  
NOTE Confidence: 0.8810514

00:14:13.485 --> 00:14:13.985 orders.  
NOTE Confidence: 0.88703114

00:14:14.444 --> 00:14:15.365 And these people make up  
NOTE Confidence: 0.88703114

00:14:15.365 --> 00:14:16.444 about one percent of a  
NOTE Confidence: 0.88703114

00:14:16.444 --> 00:14:19.245 population. And then on the  
NOTE Confidence: 0.88703114

00:14:19.245 --> 00:14:20.444 last one, we have the  
NOTE Confidence: 0.88703114

00:14:20.444 --> 00:14:21.644 high prevalence group, which is  
NOTE Confidence: 0.88703114

00:14:21.644 --> 00:14:23.565 comprised of all felony convictions  
NOTE Confidence: 0.88703114

00:14:23.565 --> 00:14:24.285 and misdemeanor,  
NOTE Confidence: 0.96666855

00:14:25.820 --> 00:14:26.860 convictions. And so this is  
NOTE Confidence: 0.96666855

00:14:26.860 --> 00:14:27.900 the largest group. It's about  
NOTE Confidence: 0.96666855

00:14:27.900 --> 00:14:29.100 two point five percent. And  
NOTE Confidence: 0.96666855

00:14:29.100 --> 00:14:30.860 so we're comparing disqualifications in  
NOTE Confidence: 0.96666855

00:14:30.860 --> 00:14:32.700 these different groups, which is

NOTE Confidence: 0.96666855

00:14:32.700 --> 00:14:34.080 what is often the discussion

NOTE Confidence: 0.96666855

00:14:34.220 --> 00:14:35.500 around firearm violence and how

NOTE Confidence: 0.96666855

00:14:35.500 --> 00:14:37.020 to prevent it versus a

NOTE Confidence: 0.96666855

00:14:37.020 --> 00:14:38.380 very population based approach, which

NOTE Confidence: 0.96666855

00:14:38.380 --> 00:14:39.440 is increasing prices.

NOTE Confidence: 0.8782899

00:14:39.815 --> 00:14:41.495 So just basically increasing prices

NOTE Confidence: 0.8782899

00:14:41.495 --> 00:14:43.195 on the firearms and ammunition

NOTE Confidence: 0.8782899

00:14:43.334 --> 00:14:44.135 and what can we do

NOTE Confidence: 0.8782899

00:14:44.135 --> 00:14:45.815 with that? Before you go.

NOTE Confidence: 0.8782899

00:14:45.815 --> 00:14:47.115 Yes, please. I can answer.

NOTE Confidence: 0.84561205

00:14:47.654 --> 00:14:48.154 Disqualifications?

NOTE Confidence: 0.9562238

00:14:48.855 --> 00:14:51.195 Disqualifications. They cannot purchase guns.

NOTE Confidence: 0.9902108

00:14:51.654 --> 00:14:51.894 So

NOTE Confidence: 0.9526212

00:14:52.535 --> 00:14:53.975 Exclude they're not allowed to

NOTE Confidence: 0.9526212

00:14:53.975 --> 00:14:55.195 buy a gun. Correct.

NOTE Confidence: 0.9918342

00:14:55.620 --> 00:14:57.540 Correct. However, we also do  
NOTE Confidence: 0.9918342

00:14:57.540 --> 00:14:58.580 model whether they can get  
NOTE Confidence: 0.9918342

00:14:58.580 --> 00:14:59.700 a gun illegally. So if  
NOTE Confidence: 0.9918342

00:14:59.700 --> 00:15:00.600 you have a friend  
NOTE Confidence: 0.992412

00:15:00.900 --> 00:15:02.360 who has a firearm  
NOTE Confidence: 0.97100395

00:15:02.900 --> 00:15:03.940 in a year and you  
NOTE Confidence: 0.97100395

00:15:03.940 --> 00:15:05.300 are a perpetrator, you can  
NOTE Confidence: 0.97100395

00:15:05.300 --> 00:15:06.420 get the firearm through that  
NOTE Confidence: 0.97100395

00:15:06.420 --> 00:15:06.920 connection.  
NOTE Confidence: 0.971644

00:15:07.380 --> 00:15:09.220 So all those connections are  
NOTE Confidence: 0.971644

00:15:09.220 --> 00:15:10.275 modeled still too.  
NOTE Confidence: 0.9707052

00:15:10.835 --> 00:15:11.955 And so the way you  
NOTE Confidence: 0.9707052

00:15:11.955 --> 00:15:13.235 actually prove that you understand  
NOTE Confidence: 0.9707052

00:15:13.235 --> 00:15:14.535 the model is by validating  
NOTE Confidence: 0.9707052

00:15:14.595 --> 00:15:15.555 it by what happened in  
NOTE Confidence: 0.9707052

00:15:15.555 --> 00:15:16.915 reality, and the goal is

NOTE Confidence: 0.9707052  
00:15:16.915 --> 00:15:17.715 to have them match up  
NOTE Confidence: 0.9707052  
00:15:17.715 --> 00:15:18.915 and they do. So we  
NOTE Confidence: 0.9707052  
00:15:18.915 --> 00:15:20.115 did look at illegally purchased  
NOTE Confidence: 0.9707052  
00:15:20.115 --> 00:15:21.235 firearms and how that is  
NOTE Confidence: 0.9707052  
00:15:21.235 --> 00:15:21.735 affected.  
NOTE Confidence: 0.97522277  
00:15:22.449 --> 00:15:23.329 I don't show that here,  
NOTE Confidence: 0.97522277  
00:15:23.329 --> 00:15:24.610 but how that is affected  
NOTE Confidence: 0.97522277  
00:15:24.610 --> 00:15:25.810 by prices going up and  
NOTE Confidence: 0.97522277  
00:15:25.810 --> 00:15:27.089 things like that. So we  
NOTE Confidence: 0.97522277  
00:15:27.089 --> 00:15:27.970 really do try to model  
NOTE Confidence: 0.97522277  
00:15:27.970 --> 00:15:28.709 the whole system.  
NOTE Confidence: 0.87015474  
00:15:30.050 --> 00:15:30.630 It's process.  
NOTE Confidence: 0.9555872  
00:15:32.130 --> 00:15:33.250 So, so the first thing  
NOTE Confidence: 0.9555872  
00:15:33.250 --> 00:15:34.130 to kinda take from this  
NOTE Confidence: 0.9555872  
00:15:34.130 --> 00:15:35.410 is that the baseline firearm  
NOTE Confidence: 0.9555872

00:15:35.410 --> 00:15:36.449 high on-site rate in New  
NOTE Confidence: 0.9555872

00:15:36.449 --> 00:15:37.815 York was four per hundred  
NOTE Confidence: 0.9555872

00:15:37.815 --> 00:15:39.255 thousand persons. So the goal  
NOTE Confidence: 0.9555872

00:15:39.255 --> 00:15:39.975 of the first step was  
NOTE Confidence: 0.9555872

00:15:39.975 --> 00:15:40.774 just to decrease it by  
NOTE Confidence: 0.9555872

00:15:40.774 --> 00:15:41.735 five percent. What could we  
NOTE Confidence: 0.9555872

00:15:41.735 --> 00:15:42.235 do?  
NOTE Confidence: 0.95933104

00:15:43.014 --> 00:15:44.535 So first is removing the  
NOTE Confidence: 0.95933104

00:15:44.535 --> 00:15:45.815 low prevalence group, which included  
NOTE Confidence: 0.95933104

00:15:45.815 --> 00:15:47.735 that psychiatric hospitalizations. You remove  
NOTE Confidence: 0.95933104

00:15:47.735 --> 00:15:49.175 every single firearm from that  
NOTE Confidence: 0.95933104

00:15:49.175 --> 00:15:50.454 low prevalence group, you can  
NOTE Confidence: 0.95933104

00:15:50.454 --> 00:15:51.495 only reduce it by two  
NOTE Confidence: 0.95933104

00:15:51.495 --> 00:15:51.995 percent.  
NOTE Confidence: 0.920209

00:15:53.020 --> 00:15:54.060 That's the most you could  
NOTE Confidence: 0.920209

00:15:54.060 --> 00:15:55.340 do if you wanna do

NOTE Confidence: 0.920209

00:15:55.340 --> 00:15:56.720 effects firearm homicides.

NOTE Confidence: 0.99283326

00:15:57.900 --> 00:15:59.100 In the moderate group, if

NOTE Confidence: 0.99283326

00:15:59.100 --> 00:16:00.140 you removed it from twenty

NOTE Confidence: 0.99283326

00:16:00.140 --> 00:16:01.180 five percent, you could get

NOTE Confidence: 0.99283326

00:16:01.180 --> 00:16:02.560 to that five percent level.

NOTE Confidence: 0.9839837

00:16:03.500 --> 00:16:04.540 In the high prevalence group,

NOTE Confidence: 0.9839837

00:16:04.540 --> 00:16:06.080 it's even less twelve percent.

NOTE Confidence: 0.9651831

00:16:06.735 --> 00:16:07.935 And then if we increase

NOTE Confidence: 0.9651831

00:16:07.935 --> 00:16:09.855 price, you'd increase price by

NOTE Confidence: 0.9651831

00:16:09.855 --> 00:16:11.214 just eighteen percent and you'd

NOTE Confidence: 0.9651831

00:16:11.214 --> 00:16:12.334 hit that same five percent.

NOTE Confidence: 0.9651831

00:16:12.334 --> 00:16:13.454 So having a lot of

NOTE Confidence: 0.9651831

00:16:13.454 --> 00:16:14.815 people at that lower risk

NOTE Confidence: 0.9651831

00:16:14.815 --> 00:16:15.774 is going to have a

NOTE Confidence: 0.9651831

00:16:15.774 --> 00:16:17.535 bigger impact when you're affecting

NOTE Confidence: 0.9651831

00:16:17.535 --> 00:16:18.575 all of them versus the  
NOTE Confidence: 0.9651831

00:16:18.575 --> 00:16:19.830 few people at high risk.  
NOTE Confidence: 0.97030467

00:16:20.390 --> 00:16:21.590 If you combine all three  
NOTE Confidence: 0.97030467

00:16:21.590 --> 00:16:22.390 of them, you would get  
NOTE Confidence: 0.97030467

00:16:22.390 --> 00:16:23.850 to a twelve percent reduction  
NOTE Confidence: 0.99766016

00:16:24.230 --> 00:16:24.890 at this.  
NOTE Confidence: 0.9929088

00:16:25.830 --> 00:16:28.150 And then just to show  
NOTE Confidence: 0.9929088

00:16:28.150 --> 00:16:28.650 how  
NOTE Confidence: 0.9783926

00:16:29.830 --> 00:16:31.110 how the the next stage  
NOTE Confidence: 0.9783926

00:16:31.110 --> 00:16:31.910 of it kinda goes, you  
NOTE Confidence: 0.9783926

00:16:31.910 --> 00:16:33.030 can look at different levels  
NOTE Confidence: 0.9783926

00:16:33.030 --> 00:16:33.910 of this. And this is  
NOTE Confidence: 0.9783926

00:16:33.910 --> 00:16:34.650 the the  
NOTE Confidence: 0.96996665

00:16:35.365 --> 00:16:36.485 interesting part about these models  
NOTE Confidence: 0.96996665

00:16:36.485 --> 00:16:37.125 is once you build them,  
NOTE Confidence: 0.96996665

00:16:37.125 --> 00:16:37.845 you can look at them

NOTE Confidence: 0.96996665

00:16:37.845 --> 00:16:38.645 a lot of different ways.

NOTE Confidence: 0.96996665

00:16:38.645 --> 00:16:39.365 So if we wanna see

NOTE Confidence: 0.96996665

00:16:39.365 --> 00:16:40.565 a bigger example, what we

NOTE Confidence: 0.96996665

00:16:40.565 --> 00:16:41.605 basically start to see is

NOTE Confidence: 0.96996665

00:16:41.605 --> 00:16:42.965 that price becomes the only

NOTE Confidence: 0.96996665

00:16:42.965 --> 00:16:43.865 thing that's influential.

NOTE Confidence: 0.9863944

00:16:44.965 --> 00:16:46.245 You know, even if we

NOTE Confidence: 0.9863944

00:16:46.245 --> 00:16:47.445 remove a hundred percent of

NOTE Confidence: 0.9863944

00:16:47.445 --> 00:16:48.565 the firearms again from that

NOTE Confidence: 0.9863944

00:16:48.565 --> 00:16:49.410 moderate group,

NOTE Confidence: 0.97807395

00:16:49.810 --> 00:16:51.329 we're reaching sixteen percent. So

NOTE Confidence: 0.97807395

00:16:51.329 --> 00:16:52.050 we can't even hit that

NOTE Confidence: 0.97807395

00:16:52.050 --> 00:16:52.850 twenty five. And a hundred

NOTE Confidence: 0.97807395

00:16:52.850 --> 00:16:54.449 percent disqualification would never happen

NOTE Confidence: 0.97807395

00:16:54.449 --> 00:16:55.250 by the way, just to

NOTE Confidence: 0.97807395

00:16:55.250 --> 00:16:56.449 be clear. Like, this is  
NOTE Confidence: 0.97807395

00:16:56.449 --> 00:16:57.889 a hypothetical world. This isn't  
NOTE Confidence: 0.97807395

00:16:57.889 --> 00:16:59.170 reality. We would never be  
NOTE Confidence: 0.97807395

00:16:59.170 --> 00:16:59.970 able to take all of  
NOTE Confidence: 0.97807395

00:16:59.970 --> 00:17:01.009 them away. So even if  
NOTE Confidence: 0.97807395

00:17:01.009 --> 00:17:02.129 you did take every gun  
NOTE Confidence: 0.97807395

00:17:02.129 --> 00:17:03.250 away from this group or  
NOTE Confidence: 0.97807395

00:17:03.250 --> 00:17:04.765 firearm, it still would not  
NOTE Confidence: 0.97807395

00:17:04.765 --> 00:17:06.365 have the desired effect of  
NOTE Confidence: 0.97807395

00:17:06.365 --> 00:17:07.984 anything above sixteen percent.  
NOTE Confidence: 0.9669691

00:17:09.484 --> 00:17:10.685 The high prevalence group, you  
NOTE Confidence: 0.9669691

00:17:10.685 --> 00:17:11.405 could get a little bit  
NOTE Confidence: 0.9669691

00:17:11.405 --> 00:17:12.365 closer, but you are gonna  
NOTE Confidence: 0.9669691

00:17:12.365 --> 00:17:13.805 top out pretty soon after  
NOTE Confidence: 0.9669691

00:17:13.805 --> 00:17:14.925 that. And you again, you  
NOTE Confidence: 0.9669691

00:17:14.925 --> 00:17:15.965 see that price is really

NOTE Confidence: 0.9669691

00:17:15.965 --> 00:17:16.859 the only thing.

NOTE Confidence: 0.95649517

00:17:17.580 --> 00:17:19.059 And unfortunately, despite this kind

NOTE Confidence: 0.95649517

00:17:19.059 --> 00:17:20.780 of evidence, the contrary that

NOTE Confidence: 0.95649517

00:17:20.780 --> 00:17:22.240 mental illness is not driving,

NOTE Confidence: 0.87577426

00:17:22.859 --> 00:17:23.679 these instances,

NOTE Confidence: 0.9427987

00:17:24.299 --> 00:17:25.260 we hear the same debate

NOTE Confidence: 0.9427987

00:17:25.260 --> 00:17:26.780 that's really continuing after every

NOTE Confidence: 0.9427987

00:17:26.780 --> 00:17:28.220 single mass shooting. How about

NOTE Confidence: 0.9427987

00:17:28.220 --> 00:17:29.179 the folk need to focus

NOTE Confidence: 0.9427987

00:17:29.179 --> 00:17:30.075 on mental illness?

NOTE Confidence: 0.9604223

00:17:30.635 --> 00:17:31.755 And we definitely need better

NOTE Confidence: 0.9604223

00:17:31.755 --> 00:17:32.955 access to mental illness. I

NOTE Confidence: 0.9604223

00:17:32.955 --> 00:17:34.075 would or treatment. I would

NOTE Confidence: 0.9604223

00:17:34.075 --> 00:17:35.595 never say otherwise. But the

NOTE Confidence: 0.9604223

00:17:35.595 --> 00:17:37.855 research shows that focusing interventions

NOTE Confidence: 0.9604223

00:17:37.994 --> 00:17:39.355 on this group or any  
NOTE Confidence: 0.9604223

00:17:39.355 --> 00:17:40.394 group is going to be  
NOTE Confidence: 0.9604223

00:17:40.394 --> 00:17:40.894 insufficient,  
NOTE Confidence: 0.9855682

00:17:41.674 --> 00:17:43.520 in this kind of situation  
NOTE Confidence: 0.9855682

00:17:43.660 --> 00:17:44.460 where a lot of the  
NOTE Confidence: 0.9855682

00:17:44.460 --> 00:17:45.500 cases are coming from those  
NOTE Confidence: 0.9855682

00:17:45.500 --> 00:17:46.619 at lower risk. And so  
NOTE Confidence: 0.9855682

00:17:46.619 --> 00:17:47.660 it's a need to think  
NOTE Confidence: 0.9855682

00:17:47.660 --> 00:17:49.359 about the whole population  
NOTE Confidence: 0.9729605

00:17:49.660 --> 00:17:50.560 and their distribution.  
NOTE Confidence: 0.9615528

00:17:52.940 --> 00:17:54.720 So this example really demonstrates,  
NOTE Confidence: 0.9615528

00:17:54.984 --> 00:17:56.264 again, the difference in how  
NOTE Confidence: 0.9615528

00:17:56.264 --> 00:17:57.144 we think about the high  
NOTE Confidence: 0.9615528

00:17:57.144 --> 00:17:58.585 risk prevention strategy versus the  
NOTE Confidence: 0.9615528

00:17:58.585 --> 00:18:00.345 population based strategy when we're  
NOTE Confidence: 0.9615528

00:18:00.345 --> 00:18:01.644 when we're thinking about policies.

NOTE Confidence: 0.9808965

00:18:02.345 --> 00:18:03.144 And there's a lot of

NOTE Confidence: 0.9808965

00:18:03.144 --> 00:18:04.984 examples of this. The high

NOTE Confidence: 0.9808965

00:18:04.984 --> 00:18:06.664 risk prevention strategy being promoted

NOTE Confidence: 0.9808965

00:18:06.664 --> 00:18:08.365 over that population based approach.

NOTE Confidence: 0.89078206

00:18:09.740 --> 00:18:10.240 And

NOTE Confidence: 0.958372

00:18:10.619 --> 00:18:11.899 this is particularly true when

NOTE Confidence: 0.958372

00:18:11.899 --> 00:18:13.600 we looked at stigmatized outcomes.

NOTE Confidence: 0.958372

00:18:13.740 --> 00:18:14.619 And then I'm gonna so

NOTE Confidence: 0.958372

00:18:14.619 --> 00:18:15.740 I'm gonna pivot here to

NOTE Confidence: 0.958372

00:18:15.740 --> 00:18:16.960 focus on the next stigmatized

NOTE Confidence: 0.958372

00:18:17.019 --> 00:18:18.220 outcome, which is more of

NOTE Confidence: 0.958372

00:18:18.220 --> 00:18:19.340 the the other topic of

NOTE Confidence: 0.958372

00:18:19.340 --> 00:18:20.460 this stuff, which is looking

NOTE Confidence: 0.958372

00:18:20.460 --> 00:18:22.684 at, drug use, addiction, overdose.

NOTE Confidence: 0.98513675

00:18:23.065 --> 00:18:23.865 And so if we look

NOTE Confidence: 0.98513675

00:18:23.865 --> 00:18:24.924 specifically at overdose,  
NOTE Confidence: 0.9698615

00:18:26.665 --> 00:18:27.405 high risk,  
NOTE Confidence: 0.99180603

00:18:28.025 --> 00:18:30.285 prevention strategies are often prioritized.  
NOTE Confidence: 0.99180603

00:18:30.424 --> 00:18:30.924 But  
NOTE Confidence: 0.9623884

00:18:31.705 --> 00:18:32.984 as we talk about that,  
NOTE Confidence: 0.9623884

00:18:32.984 --> 00:18:33.865 I wanted to introduce the  
NOTE Confidence: 0.9623884

00:18:33.865 --> 00:18:34.825 next topic I said I  
NOTE Confidence: 0.9623884

00:18:34.825 --> 00:18:36.125 was going to, which is,  
NOTE Confidence: 0.82155305

00:18:38.289 --> 00:18:39.590 the the two common  
NOTE Confidence: 0.9354579

00:18:40.049 --> 00:18:41.889 in both policy making and  
NOTE Confidence: 0.9354579

00:18:41.889 --> 00:18:43.190 in research in particular.  
NOTE Confidence: 0.93508667

00:18:43.649 --> 00:18:44.850 We have a tendency to  
NOTE Confidence: 0.93508667

00:18:44.850 --> 00:18:46.869 focus on those easily measured  
NOTE Confidence: 0.93508667

00:18:46.929 --> 00:18:48.609 and to easy to measure  
NOTE Confidence: 0.93508667

00:18:48.609 --> 00:18:50.230 metrics instead of those meaningful,  
NOTE Confidence: 0.93508667

00:18:50.289 --> 00:18:51.669 harder to measure items.

NOTE Confidence: 0.93972254  
00:18:52.825 --> 00:18:53.705 And so this is the  
NOTE Confidence: 0.93972254  
00:18:53.705 --> 00:18:55.645 basis of the McNamara fallacy.  
NOTE Confidence: 0.96974844  
00:18:56.345 --> 00:18:57.865 So the gentleman who gets  
NOTE Confidence: 0.96974844  
00:18:57.865 --> 00:18:58.825 the honor of having this  
NOTE Confidence: 0.96974844  
00:18:58.825 --> 00:18:59.865 named after him is Robert  
NOTE Confidence: 0.96974844  
00:18:59.865 --> 00:19:01.305 McNamara. He was the US  
NOTE Confidence: 0.96974844  
00:19:01.305 --> 00:19:02.425 secretary of defense during the  
NOTE Confidence: 0.96974844  
00:19:02.425 --> 00:19:03.244 Vietnam War.  
NOTE Confidence: 0.97278595  
00:19:03.625 --> 00:19:04.265 And there's a lot of  
NOTE Confidence: 0.97278595  
00:19:04.265 --> 00:19:05.785 different reasons this has been  
NOTE Confidence: 0.97278595  
00:19:05.785 --> 00:19:06.720 attributed to him. I think  
NOTE Confidence: 0.97278595  
00:19:06.720 --> 00:19:07.600 the one that I see  
NOTE Confidence: 0.97278595  
00:19:07.600 --> 00:19:08.340 most often  
NOTE Confidence: 0.9891408  
00:19:08.800 --> 00:19:09.840 is that during the war,  
NOTE Confidence: 0.9891408  
00:19:09.840 --> 00:19:11.600 he became highly focused on  
NOTE Confidence: 0.9891408

00:19:11.600 --> 00:19:13.600 the metrics of deaths, and  
NOTE Confidence: 0.9891408

00:19:13.600 --> 00:19:14.480 he thought that you could  
NOTE Confidence: 0.9891408

00:19:14.480 --> 00:19:15.619 win a war of attrition.  
NOTE Confidence: 0.9891408

00:19:15.760 --> 00:19:16.880 So if you simply counted  
NOTE Confidence: 0.9891408

00:19:16.880 --> 00:19:18.165 how many people you killed  
NOTE Confidence: 0.9891408

00:19:18.325 --> 00:19:19.605 versus how many people on  
NOTE Confidence: 0.9891408

00:19:19.605 --> 00:19:21.685 your side died, eventually, you  
NOTE Confidence: 0.9891408

00:19:21.685 --> 00:19:22.744 would have the winner.  
NOTE Confidence: 0.9665198

00:19:24.165 --> 00:19:25.445 And that never happens. And  
NOTE Confidence: 0.9665198

00:19:25.445 --> 00:19:26.744 the reason that never happens  
NOTE Confidence: 0.9665198

00:19:26.885 --> 00:19:28.645 is because focusing only on  
NOTE Confidence: 0.9665198

00:19:28.645 --> 00:19:29.945 killing another population  
NOTE Confidence: 0.9934354

00:19:30.405 --> 00:19:31.465 is going to destroy  
NOTE Confidence: 0.9992077

00:19:31.845 --> 00:19:32.345 any  
NOTE Confidence: 0.93463236

00:19:32.980 --> 00:19:34.500 goodwill or any other feelings  
NOTE Confidence: 0.93463236

00:19:34.500 --> 00:19:35.460 that could exist. Any of

NOTE Confidence: 0.93463236  
00:19:35.460 --> 00:19:36.899 the rural population that is  
NOTE Confidence: 0.93463236  
00:19:36.899 --> 00:19:37.779 affected by this and the  
NOTE Confidence: 0.93463236  
00:19:37.779 --> 00:19:39.220 people you're supposedly trying to  
NOTE Confidence: 0.93463236  
00:19:39.220 --> 00:19:39.720 help,  
NOTE Confidence: 0.9975276  
00:19:40.179 --> 00:19:40.919 is not  
NOTE Confidence: 0.9850006  
00:19:41.220 --> 00:19:42.100 they're not coming to your  
NOTE Confidence: 0.9850006  
00:19:42.100 --> 00:19:43.539 side, essentially. So you're missing  
NOTE Confidence: 0.9850006  
00:19:43.539 --> 00:19:44.980 that harder to measure qualitative  
NOTE Confidence: 0.9850006  
00:19:44.980 --> 00:19:46.500 factor, which is the attitudes  
NOTE Confidence: 0.9850006  
00:19:46.500 --> 00:19:47.460 on the ground and how  
NOTE Confidence: 0.9850006  
00:19:47.460 --> 00:19:48.200 people felt.  
NOTE Confidence: 0.9594382  
00:19:49.065 --> 00:19:50.265 And so this is often  
NOTE Confidence: 0.9594382  
00:19:50.265 --> 00:19:52.345 stated in, three parts. So  
NOTE Confidence: 0.9594382  
00:19:52.345 --> 00:19:53.705 the fallacy basically says that  
NOTE Confidence: 0.9594382  
00:19:53.705 --> 00:19:54.744 you measure what's easy to  
NOTE Confidence: 0.9594382

00:19:54.744 --> 00:19:56.664 measure, you disregard that which

NOTE Confidence: 0.9594382

00:19:56.664 --> 00:19:57.885 can't easily be measured,

NOTE Confidence: 0.93686014

00:19:58.265 --> 00:19:59.544 and then you assume that

NOTE Confidence: 0.93686014

00:19:59.544 --> 00:20:00.744 whatever can't be measured is

NOTE Confidence: 0.93686014

00:20:00.744 --> 00:20:02.024 unimportant and you can even

NOTE Confidence: 0.93686014

00:20:02.024 --> 00:20:02.984 go step further. It doesn't

NOTE Confidence: 0.93686014

00:20:02.984 --> 00:20:03.804 even exist.

NOTE Confidence: 0.98082024

00:20:04.930 --> 00:20:06.130 And it basically says that

NOTE Confidence: 0.98082024

00:20:06.130 --> 00:20:07.650 focusing on metrics leads to

NOTE Confidence: 0.98082024

00:20:07.650 --> 00:20:08.850 a very narrow view and

NOTE Confidence: 0.98082024

00:20:08.850 --> 00:20:10.530 ignores that complexity and the

NOTE Confidence: 0.98082024

00:20:10.530 --> 00:20:11.030 crucial

NOTE Confidence: 0.9855779

00:20:11.410 --> 00:20:12.550 intangible factors

NOTE Confidence: 0.99028724

00:20:12.930 --> 00:20:14.210 that are gonna result in

NOTE Confidence: 0.99028724

00:20:14.210 --> 00:20:15.430 poor long term strategies.

NOTE Confidence: 0.9557569

00:20:16.265 --> 00:20:17.465 And I'd argue that almost

NOTE Confidence: 0.9557569  
00:20:17.465 --> 00:20:18.985 all of the policy mishaps  
NOTE Confidence: 0.9557569  
00:20:18.985 --> 00:20:20.105 that have happened during the  
NOTE Confidence: 0.9557569  
00:20:20.105 --> 00:20:21.165 overdose crisis  
NOTE Confidence: 0.92780495  
00:20:22.505 --> 00:20:23.705 are fell victim to this  
NOTE Confidence: 0.92780495  
00:20:23.705 --> 00:20:24.205 fallacy,  
NOTE Confidence: 0.9975942  
00:20:24.745 --> 00:20:25.625 and we'll kind of walk  
NOTE Confidence: 0.9975942  
00:20:25.625 --> 00:20:26.505 through that here. One of  
NOTE Confidence: 0.9975942  
00:20:26.505 --> 00:20:27.705 the easiest ways to see  
NOTE Confidence: 0.9975942  
00:20:27.705 --> 00:20:29.325 that is really the focus  
NOTE Confidence: 0.9374051  
00:20:29.785 --> 00:20:30.365 of the  
NOTE Confidence: 0.9599058  
00:20:30.980 --> 00:20:32.420 of the crisis. So the  
NOTE Confidence: 0.9599058  
00:20:32.420 --> 00:20:34.040 metrics just were so easy  
NOTE Confidence: 0.9599058  
00:20:34.180 --> 00:20:35.460 in this case. You had,  
NOTE Confidence: 0.9599058  
00:20:35.460 --> 00:20:36.820 you know, opioid prescriptions. If  
NOTE Confidence: 0.9599058  
00:20:36.820 --> 00:20:37.780 you looked at them, dispensed  
NOTE Confidence: 0.9599058

00:20:37.780 --> 00:20:38.820 between ninety nine and twenty

NOTE Confidence: 0.9599058

00:20:38.820 --> 00:20:39.700 thirteen. And we've all kind

NOTE Confidence: 0.9599058

00:20:39.700 --> 00:20:40.660 of seen these figures before.

NOTE Confidence: 0.9599058

00:20:40.660 --> 00:20:41.880 This isn't anything new.

NOTE Confidence: 0.9943138

00:20:42.180 --> 00:20:43.140 And when you overlay it,

NOTE Confidence: 0.9943138

00:20:43.140 --> 00:20:44.260 you just get such a

NOTE Confidence: 0.9943138

00:20:44.260 --> 00:20:45.705 perfect picture. And so I

NOTE Confidence: 0.9943138

00:20:45.705 --> 00:20:47.544 think this became the focus

NOTE Confidence: 0.9943138

00:20:47.544 --> 00:20:48.585 of the easiest to measure

NOTE Confidence: 0.9943138

00:20:48.585 --> 00:20:49.085 metric,

NOTE Confidence: 0.98390615

00:20:49.465 --> 00:20:50.744 which was supply. How do

NOTE Confidence: 0.98390615

00:20:50.744 --> 00:20:51.725 I affect supply?

NOTE Confidence: 0.9881863

00:20:53.145 --> 00:20:53.945 And you really see that

NOTE Confidence: 0.9881863

00:20:53.945 --> 00:20:54.744 in the policies that came

NOTE Confidence: 0.9881863

00:20:54.744 --> 00:20:56.105 into effect. The first policies

NOTE Confidence: 0.93164396

00:20:56.905 --> 00:20:58.105 sorry. This slide isn't the

NOTE Confidence: 0.93164396  
00:20:58.105 --> 00:20:59.550 easiest to see, but this  
NOTE Confidence: 0.93164396  
00:20:59.710 --> 00:21:01.070 report came out in twenty  
NOTE Confidence: 0.93164396  
00:21:01.070 --> 00:21:03.250 eleven from the White House,  
NOTE Confidence: 0.9280887  
00:21:03.869 --> 00:21:05.550 Office National Drug Control Policy,  
NOTE Confidence: 0.9280887  
00:21:05.550 --> 00:21:07.010 and they put forward four  
NOTE Confidence: 0.9280887  
00:21:07.230 --> 00:21:08.290 different policies.  
NOTE Confidence: 0.86761314  
00:21:09.470 --> 00:21:10.530 First is education,  
NOTE Confidence: 0.98217887  
00:21:11.550 --> 00:21:13.070 educating patient providers on the  
NOTE Confidence: 0.98217887  
00:21:13.070 --> 00:21:14.290 risk of opioids.  
NOTE Confidence: 0.9972167  
00:21:14.665 --> 00:21:16.185 The second was advancing prescription  
NOTE Confidence: 0.9972167  
00:21:16.185 --> 00:21:17.244 drug monitoring programs.  
NOTE Confidence: 0.9766109  
00:21:17.705 --> 00:21:19.865 The third was, increasing access  
NOTE Confidence: 0.9766109  
00:21:19.865 --> 00:21:21.305 to proper disposal of unused  
NOTE Confidence: 0.9766109  
00:21:21.305 --> 00:21:23.244 medications. And third and finally,  
NOTE Confidence: 0.9955957  
00:21:24.505 --> 00:21:26.205 increasing enforcement for illegal  
NOTE Confidence: 0.9989926

00:21:26.585 --> 00:21:27.085 prescriptions.  
NOTE Confidence: 0.98581713

00:21:28.830 --> 00:21:29.550 But at the time, there  
NOTE Confidence: 0.98581713

00:21:29.550 --> 00:21:30.670 really was no evidence to  
NOTE Confidence: 0.98581713

00:21:30.670 --> 00:21:32.510 support these claims. And not  
NOTE Confidence: 0.98581713

00:21:32.510 --> 00:21:34.430 only that, the evidence that  
NOTE Confidence: 0.98581713

00:21:34.430 --> 00:21:35.710 did exist was looking at  
NOTE Confidence: 0.98581713

00:21:35.710 --> 00:21:37.170 prescription opioid supply.  
NOTE Confidence: 0.9949229

00:21:37.710 --> 00:21:38.450 And so  
NOTE Confidence: 0.9876728

00:21:38.910 --> 00:21:40.210 one of the the  
NOTE Confidence: 0.95681775

00:21:40.835 --> 00:21:41.955 papers that we did was  
NOTE Confidence: 0.95681775

00:21:41.955 --> 00:21:43.494 question this and ask,  
NOTE Confidence: 0.948448

00:21:43.955 --> 00:21:45.075 do we care about prescription  
NOTE Confidence: 0.948448

00:21:45.075 --> 00:21:46.035 opioid supply or do we  
NOTE Confidence: 0.948448

00:21:46.035 --> 00:21:47.155 care about deaths? Do we  
NOTE Confidence: 0.948448

00:21:47.155 --> 00:21:48.915 care about actual some measure  
NOTE Confidence: 0.948448

00:21:48.915 --> 00:21:49.575 of outcomes?

NOTE Confidence: 0.9809363

00:21:50.195 --> 00:21:51.475 And this isn't necessarily a

NOTE Confidence: 0.9809363

00:21:51.475 --> 00:21:52.755 really hard to measure metric,

NOTE Confidence: 0.9809363

00:21:52.755 --> 00:21:53.715 but I think it still

NOTE Confidence: 0.9809363

00:21:53.715 --> 00:21:54.215 illustrates,

NOTE Confidence: 0.99614733

00:21:55.200 --> 00:21:56.000 that this was one of

NOTE Confidence: 0.99614733

00:21:56.000 --> 00:21:57.040 the key metrics that were

NOTE Confidence: 0.99614733

00:21:57.040 --> 00:21:57.940 just ignored,

NOTE Confidence: 0.99957865

00:21:58.320 --> 00:21:58.960 in a lot of the

NOTE Confidence: 0.99957865

00:21:58.960 --> 00:21:59.780 early policies.

NOTE Confidence: 0.95634687

00:22:00.160 --> 00:22:01.200 And so at the time

NOTE Confidence: 0.95634687

00:22:01.200 --> 00:22:02.320 this article came out, there

NOTE Confidence: 0.95634687

00:22:02.320 --> 00:22:04.080 were seventeen papers looking at

NOTE Confidence: 0.95634687

00:22:04.080 --> 00:22:05.760 prescription drug monitoring programs and

NOTE Confidence: 0.95634687

00:22:05.760 --> 00:22:07.119 death. There was really low

NOTE Confidence: 0.95634687

00:22:07.119 --> 00:22:08.480 grade evidence, which means there

NOTE Confidence: 0.95634687

00:22:08.480 --> 00:22:10.695 was conflicting results. It means

NOTE Confidence: 0.95634687

00:22:10.695 --> 00:22:11.895 that there was risk to

NOTE Confidence: 0.95634687

00:22:11.895 --> 00:22:12.615 bias in a lot of

NOTE Confidence: 0.95634687

00:22:12.615 --> 00:22:13.115 them,

NOTE Confidence: 0.99935454

00:22:13.494 --> 00:22:14.395 and they still

NOTE Confidence: 0.99116594

00:22:14.775 --> 00:22:15.835 had just moderate,

NOTE Confidence: 0.9531205

00:22:16.215 --> 00:22:17.734 evidence that it reduced prescription

NOTE Confidence: 0.9531205

00:22:17.734 --> 00:22:18.234 opioids

NOTE Confidence: 0.992003

00:22:18.615 --> 00:22:20.375 deaths. But the real concern

NOTE Confidence: 0.992003

00:22:20.375 --> 00:22:21.174 that came out of it

NOTE Confidence: 0.992003

00:22:21.174 --> 00:22:22.215 was that it was shown

NOTE Confidence: 0.992003

00:22:22.215 --> 00:22:23.815 to increase heroin related deaths

NOTE Confidence: 0.992003

00:22:23.815 --> 00:22:24.794 in a much more

NOTE Confidence: 0.9933102

00:22:25.200 --> 00:22:25.940 rigorous fashion.

NOTE Confidence: 0.9884512

00:22:26.559 --> 00:22:27.760 And this was the first

NOTE Confidence: 0.9884512

00:22:27.919 --> 00:22:28.799 one of the first papers

NOTE Confidence: 0.9884512

00:22:28.799 --> 00:22:30.000 that really brought light, I

NOTE Confidence: 0.9884512

00:22:30.000 --> 00:22:31.359 think, to the unintended consequences

NOTE Confidence: 0.9884512

00:22:31.359 --> 00:22:32.399 of these policies at a

NOTE Confidence: 0.9884512

00:22:32.399 --> 00:22:33.380 at a large level.

NOTE Confidence: 0.9826876

00:22:34.799 --> 00:22:35.600 And then it became a

NOTE Confidence: 0.9826876

00:22:35.600 --> 00:22:37.140 regular occurrence. And I think

NOTE Confidence: 0.9826876

00:22:37.345 --> 00:22:38.705 this paper was a brilliant

NOTE Confidence: 0.9826876

00:22:38.705 --> 00:22:40.305 paper that was done by,

NOTE Confidence: 0.9826876

00:22:40.625 --> 00:22:41.605 Pitt and colleagues.

NOTE Confidence: 0.98335946

00:22:42.065 --> 00:22:43.985 It's a systems dynamic model,

NOTE Confidence: 0.98335946

00:22:43.985 --> 00:22:44.945 which is kinda like an

NOTE Confidence: 0.98335946

00:22:44.945 --> 00:22:45.985 agent based model. There's a

NOTE Confidence: 0.98335946

00:22:45.985 --> 00:22:47.185 lot of thinking about different

NOTE Confidence: 0.98335946

00:22:47.345 --> 00:22:49.105 creating a whole society and

NOTE Confidence: 0.98335946

00:22:49.105 --> 00:22:50.645 then trying these different interventions.

NOTE Confidence: 0.9511028

00:22:52.020 --> 00:22:52.900 And if we looked at  
NOTE Confidence: 0.9511028

00:22:52.900 --> 00:22:54.040 this article  
NOTE Confidence: 0.9277869

00:22:54.820 --> 00:22:55.940 and four of these outcomes  
NOTE Confidence: 0.9277869

00:22:55.940 --> 00:22:57.620 here, these were really focused  
NOTE Confidence: 0.9277869

00:22:57.620 --> 00:22:58.440 on prescribing.  
NOTE Confidence: 0.9910748

00:22:59.300 --> 00:22:59.800 Again,  
NOTE Confidence: 0.99236184

00:23:00.180 --> 00:23:01.140 we saw that four of  
NOTE Confidence: 0.99236184

00:23:01.140 --> 00:23:02.420 the outcomes, which was chronic  
NOTE Confidence: 0.99236184

00:23:02.420 --> 00:23:04.120 pain reducing chronic pain prescribing,  
NOTE Confidence: 0.9038489

00:23:04.774 --> 00:23:05.654 which we thought as a  
NOTE Confidence: 0.9038489

00:23:05.654 --> 00:23:07.975 tapers, drug rescheduling, prescription drug  
NOTE Confidence: 0.9038489

00:23:07.975 --> 00:23:09.575 monitoring program, and then drug  
NOTE Confidence: 0.9038489

00:23:09.575 --> 00:23:10.794 reformat reformulation  
NOTE Confidence: 0.8137804

00:23:11.335 --> 00:23:11.894 such as,  
NOTE Confidence: 0.7438665

00:23:12.695 --> 00:23:13.914 abuse deterrent, OxyContin,  
NOTE Confidence: 0.8900382

00:23:14.855 --> 00:23:16.154 that all these actually

NOTE Confidence: 0.7770308  
00:23:16.774 --> 00:23:17.274 reduced,  
NOTE Confidence: 0.94834715  
00:23:18.700 --> 00:23:19.820 prescription opioid deaths, but they  
NOTE Confidence: 0.94834715  
00:23:19.820 --> 00:23:21.340 were completely offset by heroin  
NOTE Confidence: 0.94834715  
00:23:21.340 --> 00:23:22.220 deaths. It was a complete  
NOTE Confidence: 0.94834715  
00:23:22.220 --> 00:23:23.500 lack of understanding about the  
NOTE Confidence: 0.94834715  
00:23:23.500 --> 00:23:24.880 complexity of what was occurring.  
NOTE Confidence: 0.97322255  
00:23:25.260 --> 00:23:25.920 And there's  
NOTE Confidence: 0.92369986  
00:23:26.380 --> 00:23:28.140 now, you know, set almost  
NOTE Confidence: 0.92369986  
00:23:28.140 --> 00:23:29.260 ten years of papers maybe  
NOTE Confidence: 0.92369986  
00:23:29.260 --> 00:23:30.400 or maybe not that much  
NOTE Confidence: 0.92369986  
00:23:30.460 --> 00:23:31.915 that have all, you know,  
NOTE Confidence: 0.92369986  
00:23:31.915 --> 00:23:32.955 demonstrated the same thing. The  
NOTE Confidence: 0.92369986  
00:23:32.955 --> 00:23:34.555 reformulation was extremely harmful. And  
NOTE Confidence: 0.92369986  
00:23:34.555 --> 00:23:35.695 it's a lack of understanding  
NOTE Confidence: 0.9621085  
00:23:36.395 --> 00:23:37.835 the whole system, the complex  
NOTE Confidence: 0.9621085

00:23:37.835 --> 00:23:38.875 network of the system, how  
NOTE Confidence: 0.9621085

00:23:38.875 --> 00:23:39.835 they all work together and  
NOTE Confidence: 0.9621085

00:23:39.835 --> 00:23:41.435 understanding the unintended effects of  
NOTE Confidence: 0.9621085

00:23:41.435 --> 00:23:41.935 these.  
NOTE Confidence: 0.938913

00:23:43.195 --> 00:23:44.395 And so in an attempt  
NOTE Confidence: 0.938913

00:23:44.395 --> 00:23:45.390 to kind of start to  
NOTE Confidence: 0.938913

00:23:45.390 --> 00:23:46.750 challenge this and push back  
NOTE Confidence: 0.938913

00:23:46.750 --> 00:23:47.570 against it,  
NOTE Confidence: 0.9709005

00:23:48.190 --> 00:23:49.070 one of the some of  
NOTE Confidence: 0.9709005

00:23:49.070 --> 00:23:49.710 the work that we did  
NOTE Confidence: 0.9709005

00:23:49.710 --> 00:23:51.390 was try to quantify some  
NOTE Confidence: 0.9709005

00:23:51.390 --> 00:23:52.590 of the harder measure stuff.  
NOTE Confidence: 0.9709005

00:23:52.590 --> 00:23:53.090 Yes.  
NOTE Confidence: 0.9580492

00:23:53.869 --> 00:23:54.369 Yes.  
NOTE Confidence: 0.8943346

00:23:55.230 --> 00:23:56.109 I think this is super  
NOTE Confidence: 0.8943346

00:23:56.109 --> 00:23:57.650 important and not not surprising,

NOTE Confidence: 0.8943346

00:23:57.790 --> 00:23:58.395 but But I feel like

NOTE Confidence: 0.8943346

00:23:58.395 --> 00:24:00.095 sometimes the time horizon

NOTE Confidence: 0.9105303

00:24:00.475 --> 00:24:01.355 is wrong because you can

NOTE Confidence: 0.9105303

00:24:01.355 --> 00:24:02.395 imagine a world where the

NOTE Confidence: 0.9105303

00:24:02.395 --> 00:24:03.135 short term

NOTE Confidence: 0.82679135

00:24:03.675 --> 00:24:05.675 people moving from prescription abuse

NOTE Confidence: 0.82679135

00:24:05.675 --> 00:24:07.615 to sort of Yes. Ethanol

NOTE Confidence: 0.82679135

00:24:07.675 --> 00:24:08.875 sort of sees sort of

NOTE Confidence: 0.82679135

00:24:08.875 --> 00:24:10.475 offsets the the ending benefit

NOTE Confidence: 0.82679135

00:24:10.475 --> 00:24:11.515 of the debt. And maybe

NOTE Confidence: 0.82679135

00:24:11.515 --> 00:24:12.415 the long term

NOTE Confidence: 0.9137277

00:24:12.730 --> 00:24:14.090 sort of fewer entrance into,

NOTE Confidence: 0.9137277

00:24:14.090 --> 00:24:15.529 like, the risk pool if

NOTE Confidence: 0.9137277

00:24:15.529 --> 00:24:16.990 there are fewer prescription opioids

NOTE Confidence: 0.9137277

00:24:17.049 --> 00:24:17.850 as sort of as, like,

NOTE Confidence: 0.9137277

00:24:17.850 --> 00:24:19.389 a gateway. Hundred percent.  
NOTE Confidence: 0.8805547

00:24:19.769 --> 00:24:20.570 Have any of these studies  
NOTE Confidence: 0.8805547

00:24:20.570 --> 00:24:21.450 tried to, like I mean,  
NOTE Confidence: 0.8805547

00:24:21.450 --> 00:24:22.730 clearly, that isn't maybe enough  
NOTE Confidence: 0.8805547

00:24:22.730 --> 00:24:24.330 time to do that. Is  
NOTE Confidence: 0.8805547

00:24:24.330 --> 00:24:25.130 there a way or has  
NOTE Confidence: 0.8805547

00:24:25.130 --> 00:24:26.590 there any modeling of, like,  
NOTE Confidence: 0.8805547

00:24:26.755 --> 00:24:27.794 potentially a long term benefit  
NOTE Confidence: 0.8805547

00:24:27.794 --> 00:24:29.494 even if there's no Yes.  
NOTE Confidence: 0.9554864

00:24:29.875 --> 00:24:30.835 So, yes, there has been.  
NOTE Confidence: 0.9554864

00:24:30.835 --> 00:24:31.794 So this was the first  
NOTE Confidence: 0.9554864

00:24:31.794 --> 00:24:33.075 paper that was done by  
NOTE Confidence: 0.9554864

00:24:33.075 --> 00:24:34.674 this group. They published a  
NOTE Confidence: 0.9554864

00:24:34.674 --> 00:24:35.794 paper, I think, two years  
NOTE Confidence: 0.9554864

00:24:35.794 --> 00:24:37.635 later, in twenty twenty that  
NOTE Confidence: 0.9554864

00:24:37.635 --> 00:24:38.934 did different time horizons.

NOTE Confidence: 0.9773102

00:24:39.554 --> 00:24:40.434 This was a five year

NOTE Confidence: 0.9773102

00:24:40.434 --> 00:24:41.820 time horizon. They also did

NOTE Confidence: 0.9773102

00:24:41.820 --> 00:24:42.940 a ten year time horizon.

NOTE Confidence: 0.9773102

00:24:42.940 --> 00:24:43.500 And when you hit the

NOTE Confidence: 0.9773102

00:24:43.500 --> 00:24:44.539 ten years, you start to

NOTE Confidence: 0.9773102

00:24:44.539 --> 00:24:45.900 see exactly what you're saying,

NOTE Confidence: 0.9773102

00:24:45.900 --> 00:24:47.740 where prescription drug monitoring programs

NOTE Confidence: 0.9773102

00:24:47.740 --> 00:24:49.179 even started to reduce deaths

NOTE Confidence: 0.9773102

00:24:49.179 --> 00:24:50.619 at that point. You just

NOTE Confidence: 0.9773102

00:24:50.619 --> 00:24:52.220 had to survive that ten

NOTE Confidence: 0.9773102

00:24:52.220 --> 00:24:52.720 year,

NOTE Confidence: 0.9324626

00:24:53.340 --> 00:24:54.779 harmful effects period to get

NOTE Confidence: 0.9324626

00:24:54.779 --> 00:24:56.220 to the benefit one. And

NOTE Confidence: 0.9324626

00:24:56.220 --> 00:24:57.615 and actually, I think a

NOTE Confidence: 0.9324626

00:24:57.615 --> 00:24:58.115 lot

NOTE Confidence: 0.940799

00:24:58.734 --> 00:25:00.335 of the discussion around that  
NOTE Confidence: 0.940799

00:25:00.494 --> 00:25:01.695 what around all of this  
NOTE Confidence: 0.940799

00:25:01.695 --> 00:25:02.815 is that any of these  
NOTE Confidence: 0.940799

00:25:02.815 --> 00:25:04.095 programs, I think, could have  
NOTE Confidence: 0.940799

00:25:04.095 --> 00:25:05.295 been helpful, and that's something  
NOTE Confidence: 0.940799

00:25:05.295 --> 00:25:06.335 we can definitely talk about  
NOTE Confidence: 0.940799

00:25:06.335 --> 00:25:07.455 is that I think any  
NOTE Confidence: 0.940799

00:25:07.455 --> 00:25:08.095 of them could have been  
NOTE Confidence: 0.940799

00:25:08.095 --> 00:25:09.055 helpful if they were done  
NOTE Confidence: 0.940799

00:25:09.055 --> 00:25:10.255 differently, and it wasn't just  
NOTE Confidence: 0.940799

00:25:10.255 --> 00:25:12.140 so hyper focused on one  
NOTE Confidence: 0.940799

00:25:12.200 --> 00:25:13.480 aspect of it instead of  
NOTE Confidence: 0.940799

00:25:13.480 --> 00:25:14.840 thinking about the individual and  
NOTE Confidence: 0.940799

00:25:14.840 --> 00:25:16.440 the and understanding people and  
NOTE Confidence: 0.940799

00:25:16.440 --> 00:25:17.560 having them involved in it.  
NOTE Confidence: 0.940799

00:25:17.560 --> 00:25:18.060 Right?

NOTE Confidence: 0.9702433  
00:25:18.920 --> 00:25:19.880 And so one of one  
NOTE Confidence: 0.9702433  
00:25:19.880 --> 00:25:20.840 of the things that we  
NOTE Confidence: 0.9702433  
00:25:20.840 --> 00:25:22.200 tried to quantify and look  
NOTE Confidence: 0.9702433  
00:25:22.200 --> 00:25:23.240 at was the other side  
NOTE Confidence: 0.9702433  
00:25:23.240 --> 00:25:23.740 of,  
NOTE Confidence: 0.9358594  
00:25:24.455 --> 00:25:25.335 what we started hearing a  
NOTE Confidence: 0.9358594  
00:25:25.335 --> 00:25:26.795 lot about, which was socioeconomic  
NOTE Confidence: 0.9358594  
00:25:27.095 --> 00:25:28.215 situations and how that could  
NOTE Confidence: 0.9358594  
00:25:28.215 --> 00:25:29.515 play into it. You know?  
NOTE Confidence: 0.9224219  
00:25:30.615 --> 00:25:32.215 And so when we looked  
NOTE Confidence: 0.9224219  
00:25:32.215 --> 00:25:33.675 at this systematic review,  
NOTE Confidence: 0.92874527  
00:25:34.135 --> 00:25:35.655 I enjoy systematic reviews. If  
NOTE Confidence: 0.92874527  
00:25:35.655 --> 00:25:36.615 you can't tell, I I,  
NOTE Confidence: 0.92874527  
00:25:36.855 --> 00:25:37.494 I like to do one  
NOTE Confidence: 0.92874527  
00:25:37.494 --> 00:25:39.020 every couple years. So it's,  
NOTE Confidence: 0.92874527

00:25:39.020 --> 00:25:39.900 you know, these are topics  
NOTE Confidence: 0.92874527

00:25:39.900 --> 00:25:40.940 you're interested in, I'm I'm  
NOTE Confidence: 0.92874527

00:25:40.940 --> 00:25:41.440 available.  
NOTE Confidence: 0.92184013

00:25:42.540 --> 00:25:43.419 But, one of the things  
NOTE Confidence: 0.92184013

00:25:43.419 --> 00:25:44.480 we looked at was socioeconomic  
NOTE Confidence: 0.92184013

00:25:44.540 --> 00:25:45.980 determinants of overdose deaths and  
NOTE Confidence: 0.92184013

00:25:45.980 --> 00:25:47.020 really to understand what was  
NOTE Confidence: 0.92184013

00:25:47.020 --> 00:25:48.059 the literature there, because that's  
NOTE Confidence: 0.92184013

00:25:48.059 --> 00:25:49.020 a much harder to measure  
NOTE Confidence: 0.92184013

00:25:49.020 --> 00:25:50.299 thing. It's much harder to  
NOTE Confidence: 0.92184013

00:25:50.299 --> 00:25:50.799 measure.  
NOTE Confidence: 0.95350003

00:25:51.554 --> 00:25:52.515 One of the so in  
NOTE Confidence: 0.95350003

00:25:52.515 --> 00:25:53.815 this study, we found  
NOTE Confidence: 0.95838434

00:25:54.434 --> 00:25:55.715 twenty seven studies had done  
NOTE Confidence: 0.95838434

00:25:55.715 --> 00:25:56.215 this.  
NOTE Confidence: 0.9036519

00:25:57.075 --> 00:25:58.274 And so that's a much

NOTE Confidence: 0.9036519

00:25:58.274 --> 00:25:59.075 more than they had looked

NOTE Confidence: 0.9036519

00:25:59.075 --> 00:26:00.434 at PDMPs in death. So

NOTE Confidence: 0.9036519

00:26:00.434 --> 00:26:01.554 this is a much more,

NOTE Confidence: 0.8679006

00:26:01.875 --> 00:26:02.695 study topic.

NOTE Confidence: 0.9318165

00:26:02.994 --> 00:26:05.015 And the results were universal

NOTE Confidence: 0.9318165

00:26:05.075 --> 00:26:06.215 across the board. Socioeconomic

NOTE Confidence: 0.98756987

00:26:07.210 --> 00:26:09.690 situations affected county level overdose

NOTE Confidence: 0.98756987

00:26:09.690 --> 00:26:10.190 rates,

NOTE Confidence: 0.94331264

00:26:10.650 --> 00:26:11.770 on every study. It didn't

NOTE Confidence: 0.94331264

00:26:11.770 --> 00:26:13.530 matter what what measure you

NOTE Confidence: 0.94331264

00:26:13.530 --> 00:26:14.490 looked at. It wasn't it

NOTE Confidence: 0.94331264

00:26:14.490 --> 00:26:15.530 didn't matter if you're looking

NOTE Confidence: 0.94331264

00:26:15.530 --> 00:26:17.130 at income inequality or if

NOTE Confidence: 0.94331264

00:26:17.130 --> 00:26:18.250 you were looking at poverty

NOTE Confidence: 0.94331264

00:26:18.250 --> 00:26:19.290 level. They all had the

NOTE Confidence: 0.94331264

00:26:19.290 --> 00:26:20.030 same effect.  
NOTE Confidence: 0.97961926

00:26:20.765 --> 00:26:21.325 It was one of the  
NOTE Confidence: 0.97961926

00:26:21.325 --> 00:26:22.605 most consistent findings I think  
NOTE Confidence: 0.97961926

00:26:22.605 --> 00:26:23.825 I've ever found.  
NOTE Confidence: 0.94639426

00:26:25.565 --> 00:26:27.085 And yet, I I have  
NOTE Confidence: 0.94639426

00:26:27.085 --> 00:26:28.284 never heard a policy maker  
NOTE Confidence: 0.94639426

00:26:28.284 --> 00:26:30.205 say, let's increase universal basic  
NOTE Confidence: 0.94639426

00:26:30.205 --> 00:26:31.325 income to affect the overdose  
NOTE Confidence: 0.94639426

00:26:31.325 --> 00:26:32.765 crisis or job training programs  
NOTE Confidence: 0.94639426

00:26:32.765 --> 00:26:34.205 or anything to that extent.  
NOTE Confidence: 0.94639426

00:26:34.205 --> 00:26:35.340 It's something we just don't  
NOTE Confidence: 0.94639426

00:26:35.419 --> 00:26:36.320 hear as much.  
NOTE Confidence: 0.98465383

00:26:37.100 --> 00:26:37.980 But one of the interesting  
NOTE Confidence: 0.98465383

00:26:37.980 --> 00:26:38.940 things that we did is  
NOTE Confidence: 0.98465383

00:26:38.940 --> 00:26:40.320 take this a step further.  
NOTE Confidence: 0.8517623

00:26:41.820 --> 00:26:43.279 And so we then combine

NOTE Confidence: 0.9726532

00:26:43.580 --> 00:26:44.539 the two. So what's the

NOTE Confidence: 0.9726532

00:26:44.539 --> 00:26:46.380 role of socioeconomic situations and

NOTE Confidence: 0.9726532

00:26:46.380 --> 00:26:47.359 prescription opioids?

NOTE Confidence: 0.96622324

00:26:47.815 --> 00:26:48.455 And this was a really

NOTE Confidence: 0.96622324

00:26:48.455 --> 00:26:50.295 fascinating paper for me, because

NOTE Confidence: 0.96622324

00:26:50.295 --> 00:26:51.895 it didn't produce the effects

NOTE Confidence: 0.96622324

00:26:51.895 --> 00:26:52.615 I thought it would, but

NOTE Confidence: 0.96622324

00:26:52.615 --> 00:26:53.755 then it made sense.

NOTE Confidence: 0.9690753

00:26:54.775 --> 00:26:56.455 So basically, what we found

NOTE Confidence: 0.9690753

00:26:56.455 --> 00:26:57.275 in this paper

NOTE Confidence: 0.9906708

00:26:57.815 --> 00:26:58.635 was that

NOTE Confidence: 0.8844374

00:26:59.494 --> 00:27:00.875 in highly deprived,

NOTE Confidence: 0.9501709

00:27:02.020 --> 00:27:04.119 environments, counties that had the

NOTE Confidence: 0.9501709

00:27:04.340 --> 00:27:06.600 most economic inequality, that had

NOTE Confidence: 0.9525032

00:27:07.460 --> 00:27:09.400 the highest federal poverty rates,

NOTE Confidence: 0.9726243

00:27:10.420 --> 00:27:11.780 prescription opioid supply had no  
NOTE Confidence: 0.9726243

00:27:11.780 --> 00:27:13.799 role. It was completely unassociated.  
NOTE Confidence: 0.9726243

00:27:13.940 --> 00:27:14.820 It was a pretty strong  
NOTE Confidence: 0.9726243

00:27:14.820 --> 00:27:15.859 finding. It was it was  
NOTE Confidence: 0.9726243

00:27:15.859 --> 00:27:17.240 pretty consistent across  
NOTE Confidence: 0.997303

00:27:17.994 --> 00:27:19.455 those locations as well.  
NOTE Confidence: 0.9244641

00:27:19.914 --> 00:27:21.115 In in in places where  
NOTE Confidence: 0.9244641

00:27:21.115 --> 00:27:22.015 there was much  
NOTE Confidence: 0.9198345

00:27:22.875 --> 00:27:23.375 lower,  
NOTE Confidence: 0.9471855

00:27:24.155 --> 00:27:26.075 poverty and much less income  
NOTE Confidence: 0.9471855

00:27:26.075 --> 00:27:27.115 inequality, all of a sudden  
NOTE Confidence: 0.9471855

00:27:27.115 --> 00:27:28.475 prescription opioid supply was very  
NOTE Confidence: 0.9471855

00:27:28.475 --> 00:27:28.975 important.  
NOTE Confidence: 0.9692785

00:27:29.434 --> 00:27:31.169 So, again, it wasn't what  
NOTE Confidence: 0.9692785

00:27:31.169 --> 00:27:32.529 I think we I expected  
NOTE Confidence: 0.9692785

00:27:32.529 --> 00:27:33.490 to find, but it actually

NOTE Confidence: 0.9692785

00:27:33.490 --> 00:27:35.090 started a story could start

NOTE Confidence: 0.9692785

00:27:35.090 --> 00:27:35.649 to come together,

NOTE Confidence: 0.90543944

00:27:37.090 --> 00:27:38.529 in understanding how these two

NOTE Confidence: 0.90543944

00:27:38.529 --> 00:27:40.210 work together and that highly

NOTE Confidence: 0.90543944

00:27:40.210 --> 00:27:41.970 deprived area places like prescription

NOTE Confidence: 0.90543944

00:27:41.970 --> 00:27:42.929 opioid supply was just one

NOTE Confidence: 0.90543944

00:27:42.929 --> 00:27:44.115 more thing, you know, that

NOTE Confidence: 0.90543944

00:27:44.115 --> 00:27:45.234 was already affecting them.

NOTE Confidence: 0.9134014

00:27:45.795 --> 00:27:47.635 Whereas in in places that

NOTE Confidence: 0.9134014

00:27:47.635 --> 00:27:48.135 were

NOTE Confidence: 0.9732507

00:27:48.515 --> 00:27:50.675 doing better overall, this became

NOTE Confidence: 0.9732507

00:27:50.675 --> 00:27:52.515 something much more impactful. And

NOTE Confidence: 0.9732507

00:27:52.515 --> 00:27:53.395 so now if you're looking

NOTE Confidence: 0.9732507

00:27:53.395 --> 00:27:54.275 at all the policies that

NOTE Confidence: 0.9732507

00:27:54.275 --> 00:27:55.895 were focused on reducing supply,

NOTE Confidence: 0.9732507

00:27:56.059 --> 00:27:56.940 even if they all worked,  
NOTE Confidence: 0.9732507

00:27:56.940 --> 00:27:57.820 you might have only been  
NOTE Confidence: 0.9732507

00:27:57.820 --> 00:27:58.940 affecting one segment of the  
NOTE Confidence: 0.9732507

00:27:58.940 --> 00:28:00.559 population because you didn't understand  
NOTE Confidence: 0.9732507

00:28:00.700 --> 00:28:01.280 the problem.  
NOTE Confidence: 0.95737535

00:28:02.299 --> 00:28:03.260 And so I think that's  
NOTE Confidence: 0.95737535

00:28:03.260 --> 00:28:04.700 a a really important piece  
NOTE Confidence: 0.95737535

00:28:04.700 --> 00:28:05.500 of this, and we really  
NOTE Confidence: 0.95737535

00:28:05.500 --> 00:28:07.260 need more literature to understand  
NOTE Confidence: 0.95737535

00:28:07.260 --> 00:28:08.380 this and actually capture these  
NOTE Confidence: 0.95737535

00:28:08.380 --> 00:28:09.200 harder to measure  
NOTE Confidence: 0.94672626

00:28:09.744 --> 00:28:10.544 metrics in a better way  
NOTE Confidence: 0.94672626

00:28:10.544 --> 00:28:11.424 because I don't even think  
NOTE Confidence: 0.94672626

00:28:11.424 --> 00:28:12.784 this is perfect. And I'm  
NOTE Confidence: 0.94672626

00:28:12.784 --> 00:28:14.705 gonna continue to pull out  
NOTE Confidence: 0.94672626

00:28:14.705 --> 00:28:15.744 my own research and my

NOTE Confidence: 0.94672626  
00:28:15.744 --> 00:28:16.945 own shortcomings in this, and  
NOTE Confidence: 0.94672626  
00:28:16.945 --> 00:28:18.065 that's gonna kind of be  
NOTE Confidence: 0.94672626  
00:28:18.065 --> 00:28:18.945 the the next part of  
NOTE Confidence: 0.94672626  
00:28:18.945 --> 00:28:20.325 this talk is  
NOTE Confidence: 0.9726642  
00:28:20.625 --> 00:28:21.365 to understand  
NOTE Confidence: 0.96894604  
00:28:22.145 --> 00:28:23.424 how we continue to do  
NOTE Confidence: 0.96894604  
00:28:23.424 --> 00:28:25.044 this in pharmacoepi studies,  
NOTE Confidence: 0.9384387  
00:28:25.470 --> 00:28:26.910 and where the McNamara fallacy,  
NOTE Confidence: 0.9384387  
00:28:26.910 --> 00:28:28.210 I think, continues to live.  
NOTE Confidence: 0.9553818  
00:28:28.910 --> 00:28:30.350 And so in this past  
NOTE Confidence: 0.9553818  
00:28:30.350 --> 00:28:31.470 year, I received the r  
NOTE Confidence: 0.9553818  
00:28:31.470 --> 00:28:32.350 zero zero to look at  
NOTE Confidence: 0.9553818  
00:28:32.350 --> 00:28:33.809 buprenorphine treatment outcomes,  
NOTE Confidence: 0.9513442  
00:28:34.429 --> 00:28:36.350 in real world data. And  
NOTE Confidence: 0.9513442  
00:28:36.350 --> 00:28:37.309 so we are looking at  
NOTE Confidence: 0.9513442

00:28:37.309 --> 00:28:39.150 VA EHR data. We're looking

NOTE Confidence: 0.9513442

00:28:39.150 --> 00:28:40.510 at what happened during COVID

NOTE Confidence: 0.9513442

00:28:40.510 --> 00:28:41.010 nineteen.

NOTE Confidence: 0.9974557

00:28:41.684 --> 00:28:42.184 And,

NOTE Confidence: 0.90751547

00:28:42.725 --> 00:28:44.245 you know, did telehealth increasing

NOTE Confidence: 0.90751547

00:28:44.245 --> 00:28:45.684 telehealth use affect people that

NOTE Confidence: 0.90751547

00:28:45.684 --> 00:28:47.445 were initiating buprenorphine? Did it

NOTE Confidence: 0.90751547

00:28:47.445 --> 00:28:48.644 affect the long term outcomes

NOTE Confidence: 0.90751547

00:28:48.644 --> 00:28:49.445 of people that had been

NOTE Confidence: 0.90751547

00:28:49.445 --> 00:28:50.585 on it a long time?

NOTE Confidence: 0.97712743

00:28:51.125 --> 00:28:52.164 And when we started putting

NOTE Confidence: 0.97712743

00:28:52.164 --> 00:28:53.365 this grant together, I looked

NOTE Confidence: 0.97712743

00:28:53.365 --> 00:28:54.404 for all the outcomes that

NOTE Confidence: 0.97712743

00:28:54.404 --> 00:28:55.845 I could find, in these

NOTE Confidence: 0.97712743

00:28:55.845 --> 00:28:56.730 kind of studies.

NOTE Confidence: 0.9980938

00:28:57.130 --> 00:28:59.370 And I found four that

NOTE Confidence: 0.9980938  
00:28:59.370 --> 00:29:01.370 were most commonly used. So  
NOTE Confidence: 0.9980938  
00:29:01.370 --> 00:29:02.110 with almost  
NOTE Confidence: 0.88082266  
00:29:02.410 --> 00:29:03.150 no exceptions,  
NOTE Confidence: 0.98141116  
00:29:03.530 --> 00:29:04.570 and my study is not  
NOTE Confidence: 0.98141116  
00:29:04.570 --> 00:29:06.010 an exception, the primary outcome  
NOTE Confidence: 0.98141116  
00:29:06.010 --> 00:29:06.970 is always a hundred and  
NOTE Confidence: 0.98141116  
00:29:06.970 --> 00:29:08.350 eighty day retention in care.  
NOTE Confidence: 0.9684307  
00:29:08.650 --> 00:29:09.610 This is the metric that  
NOTE Confidence: 0.9684307  
00:29:09.610 --> 00:29:10.965 is used most often. The  
NOTE Confidence: 0.9684307  
00:29:10.965 --> 00:29:12.005 problem is is this is  
NOTE Confidence: 0.9684307  
00:29:12.005 --> 00:29:13.525 not a health metric, this  
NOTE Confidence: 0.9684307  
00:29:13.525 --> 00:29:14.825 is a process metric.  
NOTE Confidence: 0.9624743  
00:29:16.245 --> 00:29:17.845 We don't inherently care that  
NOTE Confidence: 0.9624743  
00:29:17.845 --> 00:29:19.525 someone's in care. If we  
NOTE Confidence: 0.9624743  
00:29:19.525 --> 00:29:20.725 care that they are stable,  
NOTE Confidence: 0.9624743

00:29:20.725 --> 00:29:21.605 maybe we can make that  
NOTE Confidence: 0.9624743

00:29:21.605 --> 00:29:23.205 statement, but that's not what  
NOTE Confidence: 0.9624743

00:29:23.205 --> 00:29:24.910 that is necessarily measuring. And  
NOTE Confidence: 0.9624743

00:29:24.910 --> 00:29:25.950 so that's the first one  
NOTE Confidence: 0.9624743

00:29:25.950 --> 00:29:26.990 we see. And then a  
NOTE Confidence: 0.9624743

00:29:26.990 --> 00:29:27.490 couple  
NOTE Confidence: 0.88281894

00:29:27.950 --> 00:29:29.470 metrics that I was able  
NOTE Confidence: 0.88281894

00:29:29.470 --> 00:29:30.430 also find is a list  
NOTE Confidence: 0.88281894

00:29:30.430 --> 00:29:31.490 of drug use and toxicology  
NOTE Confidence: 0.88281894

00:29:31.710 --> 00:29:32.210 data,  
NOTE Confidence: 0.9769489

00:29:32.910 --> 00:29:34.370 opioid use specific hospitalizations,  
NOTE Confidence: 0.95743966

00:29:34.670 --> 00:29:35.570 fatal overdoses.  
NOTE Confidence: 0.95092064

00:29:37.695 --> 00:29:39.375 And there's so there's many  
NOTE Confidence: 0.95092064

00:29:39.375 --> 00:29:40.575 reasons, I think, that a  
NOTE Confidence: 0.95092064

00:29:40.575 --> 00:29:42.515 patient might seek out care,  
NOTE Confidence: 0.9725083

00:29:42.894 --> 00:29:44.174 and we know these reasons.

NOTE Confidence: 0.9725083  
00:29:44.174 --> 00:29:45.135 And some of them are  
NOTE Confidence: 0.9725083  
00:29:45.135 --> 00:29:46.815 on here. There's definitely a  
NOTE Confidence: 0.9725083  
00:29:46.815 --> 00:29:48.195 a desire to stay alive.  
NOTE Confidence: 0.9479244  
00:29:48.735 --> 00:29:49.934 That is one reason that  
NOTE Confidence: 0.9479244  
00:29:49.934 --> 00:29:51.534 drive that brings people into  
NOTE Confidence: 0.9479244  
00:29:51.534 --> 00:29:52.034 treatment.  
NOTE Confidence: 0.9923964  
00:29:52.370 --> 00:29:54.130 There's a desire to stop  
NOTE Confidence: 0.9923964  
00:29:54.130 --> 00:29:54.630 using  
NOTE Confidence: 0.8540774  
00:29:54.930 --> 00:29:55.430 drugs.  
NOTE Confidence: 0.9805583  
00:29:56.610 --> 00:29:57.890 And so there is a  
NOTE Confidence: 0.9805583  
00:29:57.890 --> 00:29:58.770 piece of that that can  
NOTE Confidence: 0.9805583  
00:29:58.770 --> 00:29:59.650 be found maybe in the  
NOTE Confidence: 0.9805583  
00:29:59.650 --> 00:30:00.870 toxicology data.  
NOTE Confidence: 0.9778905  
00:30:01.250 --> 00:30:02.370 But it's incomplete. And I  
NOTE Confidence: 0.9778905  
00:30:02.370 --> 00:30:03.730 think that that can be  
NOTE Confidence: 0.9778905

00:30:03.730 --> 00:30:04.610 seen a little bit more  
NOTE Confidence: 0.9778905

00:30:04.610 --> 00:30:05.730 when we actually look ask  
NOTE Confidence: 0.9778905

00:30:05.730 --> 00:30:08.044 questions about what patients want.  
NOTE Confidence: 0.98859733

00:30:09.544 --> 00:30:10.345 And so I found a  
NOTE Confidence: 0.98859733

00:30:10.345 --> 00:30:12.184 couple of systematic reviews that  
NOTE Confidence: 0.98859733

00:30:12.184 --> 00:30:13.784 were focused more on, patient  
NOTE Confidence: 0.98859733

00:30:13.784 --> 00:30:14.284 goals.  
NOTE Confidence: 0.9704745

00:30:14.745 --> 00:30:15.705 And when we look at  
NOTE Confidence: 0.9704745

00:30:15.705 --> 00:30:17.384 these, we see again, there  
NOTE Confidence: 0.9704745

00:30:17.384 --> 00:30:18.664 is some overlap of the  
NOTE Confidence: 0.9704745

00:30:19.065 --> 00:30:20.205 the challenge that,  
NOTE Confidence: 0.9984398

00:30:20.664 --> 00:30:21.705 that I became aware of  
NOTE Confidence: 0.9984398

00:30:21.705 --> 00:30:22.445 is that  
NOTE Confidence: 0.90184647

00:30:23.029 --> 00:30:23.909 even the things we are  
NOTE Confidence: 0.90184647

00:30:23.909 --> 00:30:25.289 measuring were not clear  
NOTE Confidence: 0.9888065

00:30:25.909 --> 00:30:26.870 in how we should measure

NOTE Confidence: 0.9888065  
00:30:26.870 --> 00:30:27.669 them. And I think the  
NOTE Confidence: 0.9888065  
00:30:27.669 --> 00:30:28.789 first example of that is  
NOTE Confidence: 0.9888065  
00:30:28.789 --> 00:30:30.149 really good, the treatment related  
NOTE Confidence: 0.9888065  
00:30:30.149 --> 00:30:30.649 goals.  
NOTE Confidence: 0.9449819  
00:30:31.669 --> 00:30:32.630 When you looked at studies,  
NOTE Confidence: 0.9449819  
00:30:32.630 --> 00:30:33.830 there's one study in particular  
NOTE Confidence: 0.9449819  
00:30:33.830 --> 00:30:35.029 that asked patients about their  
NOTE Confidence: 0.9449819  
00:30:35.029 --> 00:30:35.529 goals.  
NOTE Confidence: 0.9619226  
00:30:35.909 --> 00:30:37.350 And about seventy percent said  
NOTE Confidence: 0.9619226  
00:30:37.350 --> 00:30:38.250 remain in treatment,  
NOTE Confidence: 0.9904998  
00:30:38.705 --> 00:30:39.985 while two thirds said to  
NOTE Confidence: 0.9904998  
00:30:39.985 --> 00:30:41.365 get off of buprenorphine.  
NOTE Confidence: 0.94614935  
00:30:42.065 --> 00:30:43.105 So the majority of them  
NOTE Confidence: 0.94614935  
00:30:43.105 --> 00:30:43.985 actually their one of their  
NOTE Confidence: 0.94614935  
00:30:43.985 --> 00:30:45.025 main goals was getting off  
NOTE Confidence: 0.94614935

00:30:45.025 --> 00:30:45.905 of them. And now, obviously,  
NOTE Confidence: 0.94614935

00:30:45.905 --> 00:30:47.105 these are thinking maybe more  
NOTE Confidence: 0.94614935

00:30:47.105 --> 00:30:48.385 of a longer term period  
NOTE Confidence: 0.94614935

00:30:48.385 --> 00:30:49.745 like a year or I  
NOTE Confidence: 0.94614935

00:30:49.745 --> 00:30:51.265 don't know the exact timeline  
NOTE Confidence: 0.94614935

00:30:51.265 --> 00:30:52.805 of what that would be.  
NOTE Confidence: 0.8898337

00:30:54.010 --> 00:30:54.510 But  
NOTE Confidence: 0.9319466

00:30:55.370 --> 00:30:56.809 they're using retention and goal  
NOTE Confidence: 0.9319466

00:30:56.809 --> 00:30:58.010 in care might in and  
NOTE Confidence: 0.9319466

00:30:58.010 --> 00:30:59.470 of itself not even be  
NOTE Confidence: 0.9319466

00:30:59.530 --> 00:31:00.910 a patient centered goal,  
NOTE Confidence: 0.95714754

00:31:01.850 --> 00:31:03.530 in that sense. There's, again,  
NOTE Confidence: 0.95714754

00:31:03.530 --> 00:31:05.049 substance use related goals of  
NOTE Confidence: 0.95714754

00:31:05.049 --> 00:31:06.410 avoiding withdrawal. Those could be  
NOTE Confidence: 0.95714754

00:31:06.410 --> 00:31:07.530 seen in some of this.  
NOTE Confidence: 0.95714754

00:31:07.530 --> 00:31:08.570 But the bottom one is

NOTE Confidence: 0.95714754  
00:31:08.570 --> 00:31:09.549 completely absent,  
NOTE Confidence: 0.96358204  
00:31:09.925 --> 00:31:11.045 I think from almost any  
NOTE Confidence: 0.96358204  
00:31:11.045 --> 00:31:11.525 study that's using,  
NOTE Confidence: 0.97327214  
00:31:12.485 --> 00:31:13.945 administrative claims data.  
NOTE Confidence: 0.9591469  
00:31:14.565 --> 00:31:16.005 How to measure living a  
NOTE Confidence: 0.9591469  
00:31:16.005 --> 00:31:17.925 normal life, stability, reduce criminal  
NOTE Confidence: 0.9591469  
00:31:17.925 --> 00:31:20.085 activity, improved housing, employment, improved  
NOTE Confidence: 0.9591469  
00:31:20.085 --> 00:31:21.765 social and familial relationships. These  
NOTE Confidence: 0.9591469  
00:31:21.765 --> 00:31:22.645 are the things that drive  
NOTE Confidence: 0.9591469  
00:31:22.645 --> 00:31:24.179 people into treatment that that  
NOTE Confidence: 0.9591469  
00:31:24.179 --> 00:31:25.220 they wanna get back the  
NOTE Confidence: 0.9591469  
00:31:25.220 --> 00:31:26.419 part of themselves they wanna  
NOTE Confidence: 0.9591469  
00:31:26.419 --> 00:31:26.919 regain  
NOTE Confidence: 0.9635167  
00:31:27.299 --> 00:31:28.600 from entering recovery,  
NOTE Confidence: 0.98998845  
00:31:28.980 --> 00:31:30.100 and we don't measure it  
NOTE Confidence: 0.98998845

00:31:30.100 --> 00:31:31.539 in our pharmaco studies at  
NOTE Confidence: 0.98998845

00:31:31.539 --> 00:31:32.919 all. And I think that  
NOTE Confidence: 0.9635076

00:31:33.460 --> 00:31:34.500 a lot of that is  
NOTE Confidence: 0.9635076

00:31:34.500 --> 00:31:36.419 driven by them being difficult  
NOTE Confidence: 0.9635076

00:31:36.419 --> 00:31:37.615 to measure metrics, And I  
NOTE Confidence: 0.9635076

00:31:37.615 --> 00:31:38.895 think we continue to kinda  
NOTE Confidence: 0.9635076

00:31:38.895 --> 00:31:39.955 do this. And so  
NOTE Confidence: 0.9574337

00:31:40.495 --> 00:31:41.235 part of,  
NOTE Confidence: 0.9795568

00:31:42.495 --> 00:31:43.615 part of this talk is  
NOTE Confidence: 0.9795568

00:31:43.615 --> 00:31:45.215 to to to bring my  
NOTE Confidence: 0.9795568

00:31:45.215 --> 00:31:46.335 own awareness to it, but  
NOTE Confidence: 0.9795568

00:31:46.335 --> 00:31:47.534 also to to begin to  
NOTE Confidence: 0.9795568

00:31:47.534 --> 00:31:48.495 ask questions about how we  
NOTE Confidence: 0.9795568

00:31:48.495 --> 00:31:49.294 can do better with this  
NOTE Confidence: 0.9795568

00:31:49.294 --> 00:31:50.280 and how continue to think  
NOTE Confidence: 0.9795568

00:31:50.280 --> 00:31:51.240 about it. And I don't

NOTE Confidence: 0.9795568  
00:31:51.240 --> 00:31:52.540 think that this is unique  
NOTE Confidence: 0.9795568  
00:31:52.600 --> 00:31:53.880 to to looking at,  
NOTE Confidence: 0.9747374  
00:31:54.360 --> 00:31:55.400 these outcomes. I don't think  
NOTE Confidence: 0.9747374  
00:31:55.400 --> 00:31:56.840 it's unique to addiction, even  
NOTE Confidence: 0.9747374  
00:31:56.840 --> 00:31:57.640 though I I put that  
NOTE Confidence: 0.9747374  
00:31:57.640 --> 00:31:58.860 in the main title slide.  
NOTE Confidence: 0.9747374  
00:31:58.920 --> 00:31:59.800 I think these are the  
NOTE Confidence: 0.9747374  
00:31:59.800 --> 00:32:00.840 same problems that are coming  
NOTE Confidence: 0.9747374  
00:32:00.840 --> 00:32:01.480 up in a lot of  
NOTE Confidence: 0.9747374  
00:32:01.480 --> 00:32:02.060 our research,  
NOTE Confidence: 0.9903352  
00:32:03.034 --> 00:32:04.475 where we tend to look  
NOTE Confidence: 0.9903352  
00:32:04.475 --> 00:32:05.515 most at the high risk  
NOTE Confidence: 0.9903352  
00:32:05.515 --> 00:32:06.015 individuals  
NOTE Confidence: 0.8808094  
00:32:06.635 --> 00:32:07.034 and,  
NOTE Confidence: 0.9369557  
00:32:07.835 --> 00:32:09.034 and and miss the population,  
NOTE Confidence: 0.9369557

00:32:09.034 --> 00:32:10.335 and we continue to  
NOTE Confidence: 0.97035307

00:32:10.635 --> 00:32:11.914 to look at what's easiest  
NOTE Confidence: 0.97035307

00:32:11.914 --> 00:32:13.274 to measure, what's available, and  
NOTE Confidence: 0.97035307

00:32:13.274 --> 00:32:15.054 and kind of perpetuate that.  
NOTE Confidence: 0.9969145

00:32:16.280 --> 00:32:16.940 And so  
NOTE Confidence: 0.9460242

00:32:17.640 --> 00:32:18.679 I think, as I said,  
NOTE Confidence: 0.9460242

00:32:18.679 --> 00:32:19.400 again, I think this is  
NOTE Confidence: 0.9460242

00:32:19.400 --> 00:32:20.600 something that's very common in  
NOTE Confidence: 0.9460242

00:32:20.600 --> 00:32:21.580 addiction science.  
NOTE Confidence: 0.98391944

00:32:22.679 --> 00:32:23.980 And as I reviewed,  
NOTE Confidence: 0.99770033

00:32:24.440 --> 00:32:25.640 there isn't just really one  
NOTE Confidence: 0.99770033

00:32:25.640 --> 00:32:26.620 reason for this.  
NOTE Confidence: 0.97950006

00:32:27.080 --> 00:32:28.280 It's usually the confluence of  
NOTE Confidence: 0.97950006

00:32:28.280 --> 00:32:29.240 factors. I think it's all  
NOTE Confidence: 0.97950006

00:32:29.240 --> 00:32:30.040 of those things. I think  
NOTE Confidence: 0.97950006

00:32:30.040 --> 00:32:30.465 that,

NOTE Confidence: 0.980182  
00:32:30.865 --> 00:32:32.385 usually it involves not interacting  
NOTE Confidence: 0.980182  
00:32:32.385 --> 00:32:33.904 with the population enough, not  
NOTE Confidence: 0.980182  
00:32:33.904 --> 00:32:35.664 understanding the individuals that are  
NOTE Confidence: 0.980182  
00:32:35.664 --> 00:32:36.945 part of that population and  
NOTE Confidence: 0.980182  
00:32:36.945 --> 00:32:37.825 what's going on in their  
NOTE Confidence: 0.980182  
00:32:37.825 --> 00:32:39.025 lives is a big piece  
NOTE Confidence: 0.980182  
00:32:39.025 --> 00:32:40.705 of it. I think the  
NOTE Confidence: 0.980182  
00:32:40.705 --> 00:32:42.065 the idea of looking at  
NOTE Confidence: 0.980182  
00:32:42.065 --> 00:32:43.930 sick individuals and focusing on  
NOTE Confidence: 0.980182  
00:32:43.930 --> 00:32:44.810 that high risk group and  
NOTE Confidence: 0.980182  
00:32:44.810 --> 00:32:45.770 othering them and saying they're  
NOTE Confidence: 0.980182  
00:32:45.770 --> 00:32:46.990 not part of our population,  
NOTE Confidence: 0.9642656  
00:32:47.930 --> 00:32:48.890 is another piece of it.  
NOTE Confidence: 0.9642656  
00:32:48.890 --> 00:32:49.610 And then again, I think  
NOTE Confidence: 0.9642656  
00:32:49.610 --> 00:32:50.250 the metrics.  
NOTE Confidence: 0.99302536

00:32:50.570 --> 00:32:51.370 And I think one of  
NOTE Confidence: 0.99302536

00:32:51.370 --> 00:32:52.090 the things that came up  
NOTE Confidence: 0.99302536

00:32:52.090 --> 00:32:52.810 when I was putting this  
NOTE Confidence: 0.99302536

00:32:52.810 --> 00:32:53.770 all together is that we  
NOTE Confidence: 0.99302536

00:32:53.770 --> 00:32:54.990 have just done this again.  
NOTE Confidence: 0.9888875

00:32:55.805 --> 00:32:56.365 I don't know how many  
NOTE Confidence: 0.9888875

00:32:56.365 --> 00:32:57.165 of you guys are familiar  
NOTE Confidence: 0.9888875

00:32:57.165 --> 00:32:57.905 with kratom.  
NOTE Confidence: 0.99434954

00:32:58.365 --> 00:32:59.245 It's a substance that we've  
NOTE Confidence: 0.99434954

00:32:59.245 --> 00:33:00.125 been talking about a lot  
NOTE Confidence: 0.99434954

00:33:00.125 --> 00:33:00.625 more.  
NOTE Confidence: 0.9169827

00:33:01.085 --> 00:33:02.525 It's an it acts on  
NOTE Confidence: 0.9169827

00:33:02.525 --> 00:33:03.025 opioids,  
NOTE Confidence: 0.9487549

00:33:03.405 --> 00:33:03.905 receptors,  
NOTE Confidence: 0.8937914

00:33:04.285 --> 00:33:05.645 same way opioids does. It's  
NOTE Confidence: 0.8937914

00:33:05.645 --> 00:33:06.145 available,

NOTE Confidence: 0.96802676

00:33:06.925 --> 00:33:07.980 at a lot of, like,

NOTE Confidence: 0.96802676

00:33:07.980 --> 00:33:09.100 vape shops and stuff like

NOTE Confidence: 0.96802676

00:33:09.100 --> 00:33:10.620 that. You can become very

NOTE Confidence: 0.96802676

00:33:10.620 --> 00:33:12.060 dependent on them. And two

NOTE Confidence: 0.96802676

00:33:12.060 --> 00:33:13.520 weeks ago, Connecticut

NOTE Confidence: 0.99048394

00:33:14.220 --> 00:33:16.080 just rescheduled it and just

NOTE Confidence: 0.99048394

00:33:16.300 --> 00:33:17.520 dropped them from the shelves.

NOTE Confidence: 0.99048394

00:33:17.660 --> 00:33:18.780 But I don't I haven't

NOTE Confidence: 0.99048394

00:33:18.780 --> 00:33:20.775 seen any discussion of what

NOTE Confidence: 0.99048394

00:33:20.775 --> 00:33:21.735 to do when people are

NOTE Confidence: 0.99048394

00:33:21.735 --> 00:33:23.335 dependent on it. Maybe providers

NOTE Confidence: 0.99048394

00:33:23.335 --> 00:33:24.395 have received something

NOTE Confidence: 0.9582114

00:33:24.855 --> 00:33:25.735 that has said what to

NOTE Confidence: 0.9582114

00:33:25.735 --> 00:33:26.855 do, that there's evidence that

NOTE Confidence: 0.9582114

00:33:26.855 --> 00:33:28.375 buprenorphine can work for individuals

NOTE Confidence: 0.9582114

00:33:28.375 --> 00:33:29.035 that are,  
NOTE Confidence: 0.9985936

00:33:29.335 --> 00:33:30.855 dependent on it. I have  
NOTE Confidence: 0.9985936

00:33:30.855 --> 00:33:32.395 not seen that discussion occurring.  
NOTE Confidence: 0.9525993

00:33:32.950 --> 00:33:34.470 I haven't the discussion recurring  
NOTE Confidence: 0.9525993

00:33:34.470 --> 00:33:35.430 of where to get help  
NOTE Confidence: 0.9525993

00:33:35.430 --> 00:33:36.470 or anything else, and I  
NOTE Confidence: 0.9525993

00:33:36.470 --> 00:33:37.270 think it's the same kind  
NOTE Confidence: 0.9525993

00:33:37.270 --> 00:33:38.470 of thing where you fail  
NOTE Confidence: 0.9525993

00:33:38.470 --> 00:33:39.510 to understand the complexity of  
NOTE Confidence: 0.9525993

00:33:39.510 --> 00:33:40.310 it. We kind of look  
NOTE Confidence: 0.9525993

00:33:40.310 --> 00:33:41.350 at one aspect, which is  
NOTE Confidence: 0.9525993

00:33:41.350 --> 00:33:42.890 supply over and over again,  
NOTE Confidence: 0.9525993

00:33:42.950 --> 00:33:43.990 and kind of pulling out  
NOTE Confidence: 0.9525993

00:33:43.990 --> 00:33:45.350 supply without thinking of the  
NOTE Confidence: 0.9525993

00:33:45.350 --> 00:33:46.710 individual and what they will  
NOTE Confidence: 0.9525993

00:33:46.710 --> 00:33:47.370 do next.

NOTE Confidence: 0.93686384  
00:33:48.925 --> 00:33:50.045 I sent a text before  
NOTE Confidence: 0.93686384  
00:33:50.045 --> 00:33:51.405 this to try to talk  
NOTE Confidence: 0.93686384  
00:33:51.405 --> 00:33:52.525 with some research to see  
NOTE Confidence: 0.93686384  
00:33:52.525 --> 00:33:54.045 if we can learn something  
NOTE Confidence: 0.93686384  
00:33:54.045 --> 00:33:55.085 if it's not too late  
NOTE Confidence: 0.93686384  
00:33:55.085 --> 00:33:56.445 about what those individuals are  
NOTE Confidence: 0.93686384  
00:33:56.445 --> 00:33:57.565 doing. I think it's less  
NOTE Confidence: 0.93686384  
00:33:57.565 --> 00:33:58.365 likely they'll go to an  
NOTE Confidence: 0.93686384  
00:33:58.365 --> 00:34:00.845 illicit supply, like, with, with,  
NOTE Confidence: 0.93686384  
00:34:00.845 --> 00:34:02.605 like, OxyContin or something else,  
NOTE Confidence: 0.93686384  
00:34:02.605 --> 00:34:02.765 but,  
NOTE Confidence: 0.9415122  
00:34:03.450 --> 00:34:04.490 I think that could still  
NOTE Confidence: 0.9415122  
00:34:04.490 --> 00:34:06.809 happen. Just Yeah. Yeah. I  
NOTE Confidence: 0.9415122  
00:34:06.809 --> 00:34:07.929 like that. This is it  
NOTE Confidence: 0.9415122  
00:34:07.929 --> 00:34:09.130 is real, like, even before  
NOTE Confidence: 0.9415122

00:34:09.130 --> 00:34:10.109 Kratom was rescheduled.  
NOTE Confidence: 0.9541626

00:34:10.570 --> 00:34:11.770 Clinically, we see we see  
NOTE Confidence: 0.9541626

00:34:11.770 --> 00:34:13.210 this people who, like, suddenly  
NOTE Confidence: 0.9541626

00:34:13.210 --> 00:34:14.170 stop Kratom, and they don't  
NOTE Confidence: 0.9541626

00:34:14.170 --> 00:34:15.210 know why they feel like,  
NOTE Confidence: 0.9541626

00:34:15.210 --> 00:34:16.250 there's a real mystery because  
NOTE Confidence: 0.9541626

00:34:16.250 --> 00:34:17.050 they just don't know why  
NOTE Confidence: 0.9541626

00:34:17.050 --> 00:34:18.570 they feel so horrible. Yeah.  
NOTE Confidence: 0.9541626

00:34:18.570 --> 00:34:19.525 So we are we are  
NOTE Confidence: 0.9541626

00:34:19.525 --> 00:34:20.565 using buprenorphine. I can think  
NOTE Confidence: 0.9541626

00:34:20.565 --> 00:34:21.285 of, like, a handful of  
NOTE Confidence: 0.9541626

00:34:21.285 --> 00:34:22.485 patients. But you're right. Like,  
NOTE Confidence: 0.9541626

00:34:22.485 --> 00:34:23.685 I don't know. It's just  
NOTE Confidence: 0.9541626

00:34:23.685 --> 00:34:25.045 so unknown. Like, someone's like,  
NOTE Confidence: 0.9541626

00:34:25.045 --> 00:34:26.245 I can't get anymore, and  
NOTE Confidence: 0.9541626

00:34:26.245 --> 00:34:27.285 then they just feel horrible,

NOTE Confidence: 0.9541626  
00:34:27.285 --> 00:34:28.165 and they just don't know  
NOTE Confidence: 0.9541626  
00:34:28.165 --> 00:34:29.225 why. Yeah.  
NOTE Confidence: 0.7488964  
00:34:29.685 --> 00:34:30.425 It's a confounding  
NOTE Confidence: 0.9662719  
00:34:31.100 --> 00:34:32.060 a confounding thing to to  
NOTE Confidence: 0.9662719  
00:34:32.060 --> 00:34:32.860 deal with. So it does  
NOTE Confidence: 0.9662719  
00:34:32.860 --> 00:34:33.900 happen. I I haven't thought  
NOTE Confidence: 0.9662719  
00:34:33.900 --> 00:34:35.120 of people trying to surveil  
NOTE Confidence: 0.8363993  
00:34:35.500 --> 00:34:36.620 Connecticut and sort of if  
NOTE Confidence: 0.8363993  
00:34:36.620 --> 00:34:37.900 there'll be an uptick. If  
NOTE Confidence: 0.8363993  
00:34:37.900 --> 00:34:39.020 people suddenly have a withdrawal  
NOTE Confidence: 0.8363993  
00:34:39.020 --> 00:34:40.060 symptoms, they're not knowing why  
NOTE Confidence: 0.8363993  
00:34:40.060 --> 00:34:40.700 and sort of trying to  
NOTE Confidence: 0.8363993  
00:34:40.700 --> 00:34:42.239 get into treatment. Yeah.  
NOTE Confidence: 0.94667274  
00:34:42.540 --> 00:34:43.500 Yeah. No. We'll see. It  
NOTE Confidence: 0.94667274  
00:34:43.500 --> 00:34:44.540 would have been best to  
NOTE Confidence: 0.94667274

00:34:44.540 --> 00:34:45.440 start a study,  
NOTE Confidence: 0.96236867

00:34:45.864 --> 00:34:47.325 you know, two months ago.  
NOTE Confidence: 0.9685318

00:34:47.864 --> 00:34:48.825 But, you know, since that  
NOTE Confidence: 0.9685318

00:34:48.825 --> 00:34:49.785 didn't happen as far as  
NOTE Confidence: 0.9685318

00:34:49.785 --> 00:34:50.905 I know, it's still something  
NOTE Confidence: 0.9685318

00:34:50.905 --> 00:34:51.785 that's worth doing because other  
NOTE Confidence: 0.9685318

00:34:51.785 --> 00:34:52.665 states are gonna continue to  
NOTE Confidence: 0.9685318

00:34:52.665 --> 00:34:53.785 do this too. So learning  
NOTE Confidence: 0.9685318

00:34:53.785 --> 00:34:54.905 from these kind of situations  
NOTE Confidence: 0.9685318

00:34:54.905 --> 00:34:55.945 is exactly the kind of  
NOTE Confidence: 0.9685318

00:34:55.945 --> 00:34:57.085 things I like to do.  
NOTE Confidence: 0.9953441

00:34:58.425 --> 00:34:59.705 So, for those who are  
NOTE Confidence: 0.9953441

00:34:59.705 --> 00:35:00.205 interested,  
NOTE Confidence: 0.95518297

00:35:01.619 --> 00:35:02.759 this this text,  
NOTE Confidence: 0.90485024

00:35:03.460 --> 00:35:04.900 system science and population health  
NOTE Confidence: 0.90485024

00:35:04.900 --> 00:35:05.700 is a great book. It's

NOTE Confidence: 0.90485024  
00:35:05.700 --> 00:35:07.219 edited by Abdul El Sayed  
NOTE Confidence: 0.90485024  
00:35:07.219 --> 00:35:07.880 and Sandro,  
NOTE Confidence: 0.48735777  
00:35:08.339 --> 00:35:08.839 Gala.  
NOTE Confidence: 0.9552572  
00:35:09.700 --> 00:35:11.219 The the topic of this  
NOTE Confidence: 0.9552572  
00:35:11.219 --> 00:35:12.900 talk, wrong answers, I wrote  
NOTE Confidence: 0.9552572  
00:35:12.900 --> 00:35:13.619 a chapter on it. It's  
NOTE Confidence: 0.9552572  
00:35:13.619 --> 00:35:14.980 not specific to addiction policy.  
NOTE Confidence: 0.9552572  
00:35:14.980 --> 00:35:16.019 There's another one that I  
NOTE Confidence: 0.9552572  
00:35:16.019 --> 00:35:17.925 I authored on, social determinants  
NOTE Confidence: 0.9552572  
00:35:17.925 --> 00:35:18.725 of health and how system  
NOTE Confidence: 0.9552572  
00:35:18.725 --> 00:35:19.844 science can help with that.  
NOTE Confidence: 0.9552572  
00:35:20.085 --> 00:35:21.145 But it's a really great  
NOTE Confidence: 0.9657121  
00:35:21.445 --> 00:35:22.485 text. And for those who  
NOTE Confidence: 0.9657121  
00:35:22.485 --> 00:35:23.925 are not familiar, the first  
NOTE Confidence: 0.9657121  
00:35:23.925 --> 00:35:25.045 editor on there, Abdul El  
NOTE Confidence: 0.9657121

00:35:25.045 --> 00:35:26.405 Sayed, actually stepped away from

NOTE Confidence: 0.9657121

00:35:26.405 --> 00:35:28.005 academia, and he's now running

NOTE Confidence: 0.9657121

00:35:28.005 --> 00:35:29.385 for US Senate of Michigan

NOTE Confidence: 0.9657121

00:35:29.525 --> 00:35:31.145 to change policy directly.

NOTE Confidence: 0.9913701

00:35:31.770 --> 00:35:32.969 So it'll be interesting to

NOTE Confidence: 0.9913701

00:35:32.969 --> 00:35:33.870 see what an epidemiologist

NOTE Confidence: 0.99037164

00:35:34.410 --> 00:35:35.469 comes up with there.

NOTE Confidence: 0.9907604

00:35:36.090 --> 00:35:37.770 And so I I appreciate

NOTE Confidence: 0.9907604

00:35:37.770 --> 00:35:38.890 this. My my goal is

NOTE Confidence: 0.9907604

00:35:38.890 --> 00:35:40.110 to kind of start discussions

NOTE Confidence: 0.9907604

00:35:40.170 --> 00:35:41.450 and and continue to think

NOTE Confidence: 0.9907604

00:35:41.450 --> 00:35:42.590 about how this affects,

NOTE Confidence: 0.90508956

00:35:43.050 --> 00:35:44.489 my work and hopefully others

NOTE Confidence: 0.90508956

00:35:44.489 --> 00:35:44.989 work.

NOTE Confidence: 0.97665

00:35:45.695 --> 00:35:46.975 So I can't tell you

NOTE Confidence: 0.97665

00:35:46.975 --> 00:35:48.015 how much of a privilege

NOTE Confidence: 0.97665  
00:35:48.015 --> 00:35:48.655 it is to be here  
NOTE Confidence: 0.97665  
00:35:48.655 --> 00:35:49.375 and to be able to  
NOTE Confidence: 0.97665  
00:35:49.375 --> 00:35:50.675 give this talk and to  
NOTE Confidence: 0.97665  
00:35:50.895 --> 00:35:52.435 be part of this community.  
NOTE Confidence: 0.969373  
00:35:52.735 --> 00:35:53.855 It's been very nice. And  
NOTE Confidence: 0.969373  
00:35:53.855 --> 00:35:55.535 so I appreciate the opportunity  
NOTE Confidence: 0.969373  
00:35:55.535 --> 00:35:56.495 to, to talk with you  
NOTE Confidence: 0.969373  
00:35:56.495 --> 00:35:57.535 about my research and kind  
NOTE Confidence: 0.969373  
00:35:57.535 --> 00:35:58.755 of my path here today.  
NOTE Confidence: 0.98772746  
00:35:59.480 --> 00:36:01.339 So happy to continue that  
NOTE Confidence: 0.9997071  
00:36:06.599 --> 00:36:07.099 discussion.  
NOTE Confidence: 0.95564365  
00:36:07.559 --> 00:36:09.640 Yes. David, thank you. Really  
NOTE Confidence: 0.95564365  
00:36:09.640 --> 00:36:10.760 nice talk. A lot of  
NOTE Confidence: 0.95564365  
00:36:10.760 --> 00:36:11.260 provocative  
NOTE Confidence: 0.9970363  
00:36:12.225 --> 00:36:13.205 themes and ideas,  
NOTE Confidence: 0.948396

00:36:13.665 --> 00:36:14.864 which I think this forum  
NOTE Confidence: 0.948396

00:36:14.864 --> 00:36:16.065 is really well suited for.  
NOTE Confidence: 0.948396

00:36:16.065 --> 00:36:17.025 So I appreciate you,  
NOTE Confidence: 0.9960232

00:36:17.825 --> 00:36:18.725 taking the time.  
NOTE Confidence: 0.98916686

00:36:19.345 --> 00:36:20.545 I wanna focus on your  
NOTE Confidence: 0.98916686

00:36:20.545 --> 00:36:21.985 last topic that I I  
NOTE Confidence: 0.98916686

00:36:21.985 --> 00:36:23.505 would call, you know, how  
NOTE Confidence: 0.98916686

00:36:23.505 --> 00:36:25.265 do we get better patient  
NOTE Confidence: 0.98916686

00:36:25.265 --> 00:36:26.245 reported outcomes  
NOTE Confidence: 0.98980767

00:36:27.710 --> 00:36:29.309 to, you know, things that  
NOTE Confidence: 0.98980767

00:36:29.309 --> 00:36:31.230 matter to patients in their  
NOTE Confidence: 0.98980767

00:36:31.230 --> 00:36:31.730 lives  
NOTE Confidence: 0.96481

00:36:32.269 --> 00:36:34.210 and use data to  
NOTE Confidence: 0.9624932

00:36:34.589 --> 00:36:35.089 drive,  
NOTE Confidence: 0.9888977

00:36:36.750 --> 00:36:39.150 decision making and interventions towards  
NOTE Confidence: 0.9888977

00:36:39.150 --> 00:36:41.170 things that actually affect patients.

NOTE Confidence: 0.9888977  
00:36:41.230 --> 00:36:42.714 So, you know, in the  
NOTE Confidence: 0.9888977  
00:36:42.714 --> 00:36:44.255 in the clinical trial world,  
NOTE Confidence: 0.9677221  
00:36:46.474 --> 00:36:48.555 PCORI and even the NIH  
NOTE Confidence: 0.9677221  
00:36:48.555 --> 00:36:49.435 to a certain degree have  
NOTE Confidence: 0.9677221  
00:36:49.435 --> 00:36:51.355 been really pushing us to  
NOTE Confidence: 0.9677221  
00:36:51.355 --> 00:36:53.275 find better patient use better  
NOTE Confidence: 0.9677221  
00:36:53.275 --> 00:36:54.655 patient reported outcomes.  
NOTE Confidence: 0.9782659  
00:36:56.079 --> 00:36:58.000 But trials only go so  
NOTE Confidence: 0.9782659  
00:36:58.000 --> 00:36:59.119 far. Right? It takes a  
NOTE Confidence: 0.9782659  
00:36:59.119 --> 00:37:00.719 long time to develop a  
NOTE Confidence: 0.9782659  
00:37:00.719 --> 00:37:02.560 trial. We've got a certain  
NOTE Confidence: 0.9782659  
00:37:02.560 --> 00:37:04.000 select population of people who  
NOTE Confidence: 0.9782659  
00:37:04.000 --> 00:37:06.079 enter clinical trials, and it  
NOTE Confidence: 0.9782659  
00:37:06.079 --> 00:37:07.119 takes a long time to  
NOTE Confidence: 0.9782659  
00:37:07.119 --> 00:37:08.480 generate that kind of evidence.  
NOTE Confidence: 0.9782659

00:37:08.480 --> 00:37:08.980 So  
NOTE Confidence: 0.98169816  
00:37:09.585 --> 00:37:10.945 what I and others have  
NOTE Confidence: 0.98169816  
00:37:10.945 --> 00:37:12.385 been thinking about is, you  
NOTE Confidence: 0.98169816  
00:37:12.385 --> 00:37:13.685 know, how can we get  
NOTE Confidence: 0.98169816  
00:37:13.905 --> 00:37:16.244 actual PROs into clinical practice  
NOTE Confidence: 0.98169816  
00:37:16.385 --> 00:37:17.364 so we're measuring  
NOTE Confidence: 0.9972473  
00:37:17.665 --> 00:37:18.945 things in day to day  
NOTE Confidence: 0.9972473  
00:37:18.945 --> 00:37:19.445 practice  
NOTE Confidence: 0.9820652  
00:37:20.065 --> 00:37:21.605 that actually matter to patients  
NOTE Confidence: 0.9138281  
00:37:22.070 --> 00:37:23.190 so that we can look  
NOTE Confidence: 0.9138281  
00:37:23.190 --> 00:37:24.630 at real time data and  
NOTE Confidence: 0.9138281  
00:37:24.630 --> 00:37:26.230 have that affect clinical outcomes.  
NOTE Confidence: 0.9138281  
00:37:26.230 --> 00:37:26.730 So  
NOTE Confidence: 0.79584056  
00:37:27.430 --> 00:37:28.650 all pointing to  
NOTE Confidence: 0.83997595  
00:37:29.030 --> 00:37:30.710 the VA is doing this  
NOTE Confidence: 0.83997595  
00:37:30.710 --> 00:37:32.170 in in the pain world,

NOTE Confidence: 0.9923971  
00:37:33.430 --> 00:37:33.930 integrating  
NOTE Confidence: 0.921875  
00:37:34.230 --> 00:37:35.930 a pain measure order set  
NOTE Confidence: 0.99892485  
00:37:36.675 --> 00:37:38.594 so that, you know, we  
NOTE Confidence: 0.99892485  
00:37:38.594 --> 00:37:40.375 can collect real time data  
NOTE Confidence: 0.8576125  
00:37:40.835 --> 00:37:42.515 and do secondary analysis of  
NOTE Confidence: 0.8576125  
00:37:42.515 --> 00:37:44.114 these data to better inform  
NOTE Confidence: 0.8576125  
00:37:44.114 --> 00:37:44.935 code of practice.  
NOTE Confidence: 0.9317369  
00:37:45.475 --> 00:37:46.835 And I just wanted to  
NOTE Confidence: 0.9317369  
00:37:46.835 --> 00:37:48.035 tell you that so that  
NOTE Confidence: 0.9317369  
00:37:48.035 --> 00:37:49.315 maybe you'd be interested in  
NOTE Confidence: 0.9317369  
00:37:49.315 --> 00:37:50.915 joining us to That that's  
NOTE Confidence: 0.9317369  
00:37:50.915 --> 00:37:52.989 fair. Help develop that measures  
NOTE Confidence: 0.9317369  
00:37:53.130 --> 00:37:55.130 and help examine the findings  
NOTE Confidence: 0.9317369  
00:37:55.130 --> 00:37:55.950 that we can  
NOTE Confidence: 0.9617299  
00:37:56.250 --> 00:37:58.250 create from this work. Yeah.  
NOTE Confidence: 0.9617299

00:37:58.250 --> 00:37:59.930 No. I definitely am. I  
NOTE Confidence: 0.9617299

00:37:59.930 --> 00:38:00.890 I I think it's so  
NOTE Confidence: 0.9617299

00:38:00.890 --> 00:38:01.390 important.  
NOTE Confidence: 0.9850957

00:38:02.329 --> 00:38:03.770 I I've been involved with  
NOTE Confidence: 0.9850957

00:38:03.770 --> 00:38:05.290 some of the NIDA CTN  
NOTE Confidence: 0.9850957

00:38:05.290 --> 00:38:07.194 studies. Right? And so, Ned  
NOTE Confidence: 0.9850957

00:38:07.194 --> 00:38:07.694 Nunez,  
NOTE Confidence: 0.91597384

00:38:08.075 --> 00:38:09.594 who I I collaborate with  
NOTE Confidence: 0.91597384

00:38:09.594 --> 00:38:10.094 some,  
NOTE Confidence: 0.95662206

00:38:10.474 --> 00:38:12.075 he we we worked on  
NOTE Confidence: 0.95662206

00:38:12.075 --> 00:38:13.515 one of his, the Xspot  
NOTE Confidence: 0.95662206

00:38:13.515 --> 00:38:14.875 study, which is looking at  
NOTE Confidence: 0.95662206

00:38:14.875 --> 00:38:17.295 extended release, buprenorphine and naltrexone  
NOTE Confidence: 0.95662206

00:38:17.515 --> 00:38:18.954 comparison. But they had such  
NOTE Confidence: 0.95662206

00:38:18.954 --> 00:38:19.915 a nice question in there  
NOTE Confidence: 0.95662206

00:38:19.915 --> 00:38:21.560 that the each patient reported

NOTE Confidence: 0.95662206  
00:38:21.560 --> 00:38:22.920 what their goal was. What  
NOTE Confidence: 0.95662206  
00:38:22.920 --> 00:38:23.880 was your goal in entering  
NOTE Confidence: 0.95662206  
00:38:23.880 --> 00:38:25.080 treatment? And then you could  
NOTE Confidence: 0.95662206  
00:38:25.080 --> 00:38:26.200 look at, did that goal  
NOTE Confidence: 0.95662206  
00:38:26.200 --> 00:38:27.239 achieve? And we can't do  
NOTE Confidence: 0.95662206  
00:38:27.239 --> 00:38:29.080 that in these pharmacoepi studies  
NOTE Confidence: 0.95662206  
00:38:29.080 --> 00:38:30.280 if we don't have those  
NOTE Confidence: 0.95662206  
00:38:30.280 --> 00:38:31.020 kind of metrics,  
NOTE Confidence: 0.9690769  
00:38:31.560 --> 00:38:32.600 and we just don't have  
NOTE Confidence: 0.9690769  
00:38:32.600 --> 00:38:34.440 them. So, unfortunately, I don't  
NOTE Confidence: 0.9690769  
00:38:34.745 --> 00:38:36.105 no solution that I have  
NOTE Confidence: 0.9690769  
00:38:36.105 --> 00:38:37.305 yet except for things like  
NOTE Confidence: 0.9690769  
00:38:37.305 --> 00:38:38.344 this where the VA system  
NOTE Confidence: 0.9690769  
00:38:38.344 --> 00:38:39.225 can care about it and  
NOTE Confidence: 0.9690769  
00:38:39.225 --> 00:38:40.105 then enter it into the  
NOTE Confidence: 0.9690769

00:38:40.105 --> 00:38:40.605 system.  
NOTE Confidence: 0.9051975  
00:38:41.145 --> 00:38:42.665 And we have Question one  
NOTE Confidence: 0.9051975  
00:38:42.665 --> 00:38:43.945 of the pain measure order  
NOTE Confidence: 0.9051975  
00:38:43.945 --> 00:38:45.385 status. What is your goal?  
NOTE Confidence: 0.9051975  
00:38:45.385 --> 00:38:47.245 Yes. Such a simple question.  
NOTE Confidence: 0.9421311  
00:38:47.940 --> 00:38:49.060 Yeah. And sometimes those questions  
NOTE Confidence: 0.9421311  
00:38:49.060 --> 00:38:50.260 are super important. I one  
NOTE Confidence: 0.9421311  
00:38:50.260 --> 00:38:51.400 of one of the papers  
NOTE Confidence: 0.95492524  
00:38:51.940 --> 00:38:52.900 I did a while ago,  
NOTE Confidence: 0.95492524  
00:38:52.900 --> 00:38:53.619 and it was it was  
NOTE Confidence: 0.95492524  
00:38:53.619 --> 00:38:54.579 one of those really fun  
NOTE Confidence: 0.95492524  
00:38:54.579 --> 00:38:55.619 papers in some sense. It  
NOTE Confidence: 0.95492524  
00:38:55.619 --> 00:38:56.119 was  
NOTE Confidence: 0.9856181  
00:38:56.900 --> 00:38:57.859 I shouldn't use that word.  
NOTE Confidence: 0.9856181  
00:38:57.859 --> 00:38:59.060 It was an interesting paper,  
NOTE Confidence: 0.9856181  
00:38:59.060 --> 00:39:00.020 but it was looking at,

NOTE Confidence: 0.9856181  
00:39:00.260 --> 00:39:01.079 post deployment,  
NOTE Confidence: 0.98767996  
00:39:01.855 --> 00:39:03.135 responses that people had on  
NOTE Confidence: 0.98767996  
00:39:03.135 --> 00:39:04.435 on mental health and well-being.  
NOTE Confidence: 0.9547883  
00:39:05.055 --> 00:39:06.255 And so we collected all  
NOTE Confidence: 0.9547883  
00:39:06.255 --> 00:39:07.455 these measures on how people  
NOTE Confidence: 0.9547883  
00:39:07.455 --> 00:39:08.895 could be, and their post  
NOTE Confidence: 0.9547883  
00:39:08.895 --> 00:39:10.094 deployment and their their mental  
NOTE Confidence: 0.9547883  
00:39:10.094 --> 00:39:11.135 health status and their physical  
NOTE Confidence: 0.9547883  
00:39:11.135 --> 00:39:12.575 health status. And we asked  
NOTE Confidence: 0.9547883  
00:39:12.575 --> 00:39:13.614 one question that said, how  
NOTE Confidence: 0.9547883  
00:39:13.614 --> 00:39:14.995 is your post deployment  
NOTE Confidence: 0.97281784  
00:39:15.375 --> 00:39:17.049 transition going? And that was  
NOTE Confidence: 0.97281784  
00:39:17.049 --> 00:39:18.410 more predictive than anything else  
NOTE Confidence: 0.97281784  
00:39:18.410 --> 00:39:19.630 about all the other things  
NOTE Confidence: 0.97281784  
00:39:19.849 --> 00:39:20.809 and about how they thought  
NOTE Confidence: 0.97281784

00:39:20.809 --> 00:39:21.770 it was. It was lower  
NOTE Confidence: 0.97281784

00:39:21.770 --> 00:39:23.450 suicide attempt risk, all these  
NOTE Confidence: 0.97281784

00:39:23.450 --> 00:39:24.410 other things. It was just  
NOTE Confidence: 0.97281784

00:39:24.410 --> 00:39:25.690 a simple question. So sometimes  
NOTE Confidence: 0.97281784

00:39:25.690 --> 00:39:26.809 that simple question can be  
NOTE Confidence: 0.97281784

00:39:26.809 --> 00:39:28.010 added. It just needs to  
NOTE Confidence: 0.97281784

00:39:28.010 --> 00:39:29.369 be added. And it's very  
NOTE Confidence: 0.97281784

00:39:29.369 --> 00:39:30.569 difficult to change an entire  
NOTE Confidence: 0.97281784

00:39:30.569 --> 00:39:31.069 system,  
NOTE Confidence: 0.9775843

00:39:31.849 --> 00:39:32.945 to to to do that.  
NOTE Confidence: 0.9775843

00:39:32.945 --> 00:39:34.065 But it's it's great when  
NOTE Confidence: 0.9775843

00:39:34.065 --> 00:39:35.105 systems like the VA are  
NOTE Confidence: 0.9775843

00:39:35.105 --> 00:39:36.405 willing to start.  
NOTE Confidence: 0.8371232

00:39:38.545 --> 00:39:39.045 Yes.  
NOTE Confidence: 0.9972682

00:39:39.665 --> 00:39:40.485 Great talk.  
NOTE Confidence: 0.89389795

00:39:41.265 --> 00:39:43.105 I I would back just

NOTE Confidence: 0.89389795  
00:39:43.105 --> 00:39:44.145 a little bit on your  
NOTE Confidence: 0.89389795  
00:39:44.145 --> 00:39:44.645 population  
NOTE Confidence: 0.91872  
00:39:45.480 --> 00:39:47.239 figure because it all gets  
NOTE Confidence: 0.91872  
00:39:47.239 --> 00:39:49.260 down to cost benefit analysis.  
NOTE Confidence: 0.91872  
00:39:49.320 --> 00:39:50.940 Right? And in some cases,  
NOTE Confidence: 0.91872  
00:39:51.160 --> 00:39:51.660 identifying  
NOTE Confidence: 0.93883544  
00:39:52.119 --> 00:39:53.160 this group is the most  
NOTE Confidence: 0.93883544  
00:39:53.160 --> 00:39:54.440 cost effective thing to do.  
NOTE Confidence: 0.93883544  
00:39:54.440 --> 00:39:56.060 Right? In other cases, not  
NOTE Confidence: 0.93883544  
00:39:56.280 --> 00:39:57.420 depending on the penetrance,  
NOTE Confidence: 0.96707124  
00:39:57.800 --> 00:39:58.760 depending on the cost of  
NOTE Confidence: 0.96707124  
00:39:58.760 --> 00:39:59.880 the intervention. Right? There's a  
NOTE Confidence: 0.96707124  
00:39:59.880 --> 00:40:01.105 lot of other Yeah. Go  
NOTE Confidence: 0.96707124  
00:40:01.105 --> 00:40:02.165 into that calculation.  
NOTE Confidence: 0.96180093  
00:40:02.864 --> 00:40:03.585 So I think it's a  
NOTE Confidence: 0.96180093

00:40:03.585 --> 00:40:04.864 little bit dangerous to say  
NOTE Confidence: 0.96180093

00:40:04.864 --> 00:40:06.785 it's always better. No. Yeah.  
NOTE Confidence: 0.96180093

00:40:06.785 --> 00:40:07.844 You know, there are circumstances  
NOTE Confidence: 0.96180093

00:40:08.065 --> 00:40:08.945 where it's better, and it  
NOTE Confidence: 0.96180093

00:40:08.945 --> 00:40:10.065 sounds very much like this  
NOTE Confidence: 0.96180093

00:40:10.065 --> 00:40:10.725 is one.  
NOTE Confidence: 0.997938

00:40:11.025 --> 00:40:12.245 But there are other circumstances  
NOTE Confidence: 0.9870215

00:40:12.545 --> 00:40:13.505 where that would not be  
NOTE Confidence: 0.9870215

00:40:13.505 --> 00:40:14.700 the case. And in fact,  
NOTE Confidence: 0.9870215

00:40:14.700 --> 00:40:15.900 I would contend that we've  
NOTE Confidence: 0.9870215

00:40:15.900 --> 00:40:16.940 gotten into a lot of  
NOTE Confidence: 0.9870215

00:40:16.940 --> 00:40:17.440 overtreatment  
NOTE Confidence: 0.99982554

00:40:17.739 --> 00:40:18.560 in this country  
NOTE Confidence: 0.94237036

00:40:19.020 --> 00:40:20.300 precisely with that kind of  
NOTE Confidence: 0.94237036

00:40:20.300 --> 00:40:21.599 logic. So  
NOTE Confidence: 0.9811456

00:40:21.900 --> 00:40:22.700 I think it has to

NOTE Confidence: 0.9811456  
00:40:22.700 --> 00:40:23.980 be a little more balanced  
NOTE Confidence: 0.9811456  
00:40:23.980 --> 00:40:25.660 than that. I appreciate that,  
NOTE Confidence: 0.9811456  
00:40:25.660 --> 00:40:26.400 and I  
NOTE Confidence: 0.97731733  
00:40:26.795 --> 00:40:28.395 take it honestly and say,  
NOTE Confidence: 0.97731733  
00:40:28.395 --> 00:40:29.594 yes. I can I will  
NOTE Confidence: 0.97731733  
00:40:29.594 --> 00:40:30.555 change how I present it  
NOTE Confidence: 0.97731733  
00:40:30.555 --> 00:40:31.355 because I don't feel that  
NOTE Confidence: 0.97731733  
00:40:31.355 --> 00:40:32.155 way? I'm not saying that  
NOTE Confidence: 0.97731733  
00:40:32.235 --> 00:40:32.875 I don't think the high  
NOTE Confidence: 0.97731733  
00:40:32.875 --> 00:40:33.855 risk approach is  
NOTE Confidence: 0.96212494  
00:40:34.235 --> 00:40:35.295 wrong and not useful,  
NOTE Confidence: 0.9876679  
00:40:35.675 --> 00:40:37.035 and I think that both  
NOTE Confidence: 0.9876679  
00:40:37.035 --> 00:40:38.235 have their place in society.  
NOTE Confidence: 0.9876679  
00:40:38.235 --> 00:40:39.275 I think the challenge that  
NOTE Confidence: 0.9876679  
00:40:39.275 --> 00:40:40.955 we have is too often  
NOTE Confidence: 0.9876679

00:40:40.955 --> 00:40:41.455 biases

NOTE Confidence: 0.9495757

00:40:41.960 --> 00:40:43.160 is what draws to the

NOTE Confidence: 0.9495757

00:40:43.160 --> 00:40:44.839 high risk approach because what

NOTE Confidence: 0.9495757

00:40:44.839 --> 00:40:45.579 the high risk

NOTE Confidence: 0.9670419

00:40:46.119 --> 00:40:48.200 approach requires from everybody else

NOTE Confidence: 0.9670419

00:40:48.200 --> 00:40:49.559 is nothing, and that is

NOTE Confidence: 0.9670419

00:40:49.559 --> 00:40:50.599 much more tenable. And so

NOTE Confidence: 0.9670419

00:40:50.599 --> 00:40:51.719 especially when you're talking about

NOTE Confidence: 0.9670419

00:40:51.719 --> 00:40:53.480 a population or outcome that

NOTE Confidence: 0.9670419

00:40:53.480 --> 00:40:53.719 is,

NOTE Confidence: 0.9754902

00:40:54.714 --> 00:40:56.714 stigmatized, we're going to favor

NOTE Confidence: 0.9754902

00:40:56.714 --> 00:40:57.835 that one over the one

NOTE Confidence: 0.9754902

00:40:57.835 --> 00:40:59.114 that makes me change what

NOTE Confidence: 0.9754902

00:40:59.114 --> 00:41:00.155 I'm doing if I'm not

NOTE Confidence: 0.9754902

00:41:00.155 --> 00:41:01.114 part of that just to

NOTE Confidence: 0.9754902

00:41:01.114 --> 00:41:01.994 help them. And we saw

NOTE Confidence: 0.9754902  
00:41:01.994 --> 00:41:03.295 that during COVID. Right?  
NOTE Confidence: 0.57627755  
00:41:03.755 --> 00:41:04.255 Yes.  
NOTE Confidence: 0.8966789  
00:41:04.635 --> 00:41:06.494 With alcohol, for example. Yes.  
NOTE Confidence: 0.9763097  
00:41:06.795 --> 00:41:07.915 I don't disagree with No.  
NOTE Confidence: 0.9763097  
00:41:07.915 --> 00:41:08.795 It's how I presented it.  
NOTE Confidence: 0.9763097  
00:41:08.795 --> 00:41:09.675 So I I hear that.  
NOTE Confidence: 0.9763097  
00:41:09.675 --> 00:41:10.335 Thank you.  
NOTE Confidence: 0.85334456  
00:41:12.130 --> 00:41:12.630 Yes.  
NOTE Confidence: 0.6747869  
00:41:13.410 --> 00:41:15.270 Online had a question.  
NOTE Confidence: 0.86132616  
00:41:16.290 --> 00:41:17.330 You wanna jump on, or  
NOTE Confidence: 0.86132616  
00:41:17.330 --> 00:41:18.310 I can read it?  
NOTE Confidence: 0.9479611  
00:41:20.450 --> 00:41:21.810 I don't know how. Hey,  
NOTE Confidence: 0.9479611  
00:41:21.810 --> 00:41:23.265 David. Can you hear me?  
NOTE Confidence: 0.9479611  
00:41:23.344 --> 00:41:23.844 Yes.  
NOTE Confidence: 0.9933439  
00:41:24.464 --> 00:41:25.105 Great talk.  
NOTE Confidence: 0.93471384

00:41:25.664 --> 00:41:26.164 Appreciate,  
NOTE Confidence: 0.98657525

00:41:29.025 --> 00:41:30.385 the narrative over time.  
NOTE Confidence: 0.9818786

00:41:31.904 --> 00:41:33.344 You mentioned that one of  
NOTE Confidence: 0.9818786

00:41:33.344 --> 00:41:34.885 the common outcomes that,  
NOTE Confidence: 0.9270248

00:41:35.904 --> 00:41:37.684 studies were using you identified  
NOTE Confidence: 0.9270248

00:41:37.744 --> 00:41:39.730 for buprenorphine was retention and  
NOTE Confidence: 0.9270248

00:41:39.730 --> 00:41:40.770 treatment at a hundred and  
NOTE Confidence: 0.9270248

00:41:40.770 --> 00:41:41.430 eighty days.  
NOTE Confidence: 0.985108

00:41:42.930 --> 00:41:45.110 And that sounds fairly straightforward.  
NOTE Confidence: 0.985108

00:41:45.330 --> 00:41:45.890 I was just  
NOTE Confidence: 0.9994971

00:41:46.690 --> 00:41:48.230 my observation is that  
NOTE Confidence: 0.99199635

00:41:48.850 --> 00:41:50.310 different teams operationalize  
NOTE Confidence: 0.9277835

00:41:51.410 --> 00:41:53.515 even that, quote, unquote, standard  
NOTE Confidence: 0.9277835

00:41:53.515 --> 00:41:54.575 metric differently.  
NOTE Confidence: 0.9445294

00:41:55.275 --> 00:41:56.395 And as you pointed out,  
NOTE Confidence: 0.9445294

00:41:56.395 --> 00:41:57.915 some will allow, you know,

NOTE Confidence: 0.9445294  
00:41:57.915 --> 00:41:59.195 seven days of missed med,  
NOTE Confidence: 0.9445294  
00:41:59.195 --> 00:42:00.094 then some will  
NOTE Confidence: 0.9906934  
00:42:00.555 --> 00:42:01.594 expand it to thirty days.  
NOTE Confidence: 0.9906934  
00:42:01.594 --> 00:42:02.715 So I was just wondering  
NOTE Confidence: 0.9906934  
00:42:02.715 --> 00:42:03.755 if you could kinda talk  
NOTE Confidence: 0.9906934  
00:42:03.755 --> 00:42:04.415 on that  
NOTE Confidence: 0.98300916  
00:42:04.715 --> 00:42:05.215 variability.  
NOTE Confidence: 0.997181  
00:42:06.660 --> 00:42:08.020 Yes. Yeah. Even even those  
NOTE Confidence: 0.997181  
00:42:08.020 --> 00:42:09.460 measures are not completely agreed  
NOTE Confidence: 0.997181  
00:42:09.460 --> 00:42:09.960 upon.  
NOTE Confidence: 0.9824943  
00:42:11.300 --> 00:42:12.099 I mean, I think the  
NOTE Confidence: 0.9824943  
00:42:12.099 --> 00:42:13.059 thirty day gap is the  
NOTE Confidence: 0.9824943  
00:42:13.059 --> 00:42:14.819 most commonly used one, but  
NOTE Confidence: 0.9824943  
00:42:14.819 --> 00:42:15.700 that does bring up the  
NOTE Confidence: 0.9824943  
00:42:15.700 --> 00:42:17.400 fact that by thirty days,  
NOTE Confidence: 0.9697478

00:42:17.859 --> 00:42:19.460 every single person that's on  
NOTE Confidence: 0.9697478

00:42:19.460 --> 00:42:21.575 buprenorphine of a reasonable dose  
NOTE Confidence: 0.9697478

00:42:21.575 --> 00:42:23.035 would be deep into withdrawals.  
NOTE Confidence: 0.98589146

00:42:23.575 --> 00:42:24.155 You know,  
NOTE Confidence: 0.97060275

00:42:24.535 --> 00:42:25.734 after one day, two days,  
NOTE Confidence: 0.97060275

00:42:25.734 --> 00:42:26.934 they would be into withdrawals.  
NOTE Confidence: 0.97060275

00:42:26.934 --> 00:42:28.214 It's a longer active medication,  
NOTE Confidence: 0.97060275

00:42:28.214 --> 00:42:29.655 I believe, but not not  
NOTE Confidence: 0.97060275

00:42:29.655 --> 00:42:31.015 enough to do longer periods.  
NOTE Confidence: 0.97060275

00:42:31.015 --> 00:42:32.295 So, yes. I I think  
NOTE Confidence: 0.97060275

00:42:32.295 --> 00:42:34.020 it's interesting that that's the  
NOTE Confidence: 0.97060275

00:42:34.020 --> 00:42:35.380 gap that's often used when  
NOTE Confidence: 0.97060275

00:42:35.380 --> 00:42:36.260 we have to assume that  
NOTE Confidence: 0.97060275

00:42:36.260 --> 00:42:37.620 people are using something else  
NOTE Confidence: 0.97060275

00:42:37.620 --> 00:42:38.840 during that time probably.  
NOTE Confidence: 0.76294833

00:42:39.219 --> 00:42:39.880 Yeah. Historically,

NOTE Confidence: 0.96067446  
00:42:40.340 --> 00:42:41.700 I think that gap derives  
NOTE Confidence: 0.96067446  
00:42:41.700 --> 00:42:43.700 from payment for opioid treatment  
NOTE Confidence: 0.96067446  
00:42:43.700 --> 00:42:44.600 programs. Yes.  
NOTE Confidence: 0.9878279  
00:42:45.140 --> 00:42:47.080 So it's not clinically derived.  
NOTE Confidence: 0.9419433  
00:42:47.844 --> 00:42:49.125 Yes. No. A lot of  
NOTE Confidence: 0.9419433  
00:42:49.205 --> 00:42:50.005 I mean, that's that was  
NOTE Confidence: 0.9419433  
00:42:50.005 --> 00:42:50.805 the point I was kinda  
NOTE Confidence: 0.9419433  
00:42:50.805 --> 00:42:51.685 trying to make where that's  
NOTE Confidence: 0.9419433  
00:42:51.685 --> 00:42:52.725 the process outcome.  
NOTE Confidence: 0.9952792  
00:42:53.125 --> 00:42:53.844 And I think that's part  
NOTE Confidence: 0.9952792  
00:42:53.844 --> 00:42:54.965 of the process. It's really  
NOTE Confidence: 0.9952792  
00:42:54.965 --> 00:42:56.645 more about health services research  
NOTE Confidence: 0.9952792  
00:42:56.645 --> 00:42:58.025 that has dictated that.  
NOTE Confidence: 0.9964342  
00:42:58.485 --> 00:42:59.525 I think that thirty day  
NOTE Confidence: 0.9964342  
00:42:59.525 --> 00:42:59.685 gap  
NOTE Confidence: 0.9712112

00:43:00.600 --> 00:43:01.320 I can't think of the  
NOTE Confidence: 0.9712112

00:43:01.320 --> 00:43:02.520 organization it comes from. The  
NOTE Confidence: 0.9712112

00:43:02.520 --> 00:43:03.020 n  
NOTE Confidence: 0.92602915

00:43:03.560 --> 00:43:05.640 n n any anyway, it's  
NOTE Confidence: 0.92602915

00:43:05.640 --> 00:43:06.600 a very common one. I  
NOTE Confidence: 0.92602915

00:43:06.840 --> 00:43:08.120 either way, it is a  
NOTE Confidence: 0.92602915

00:43:08.120 --> 00:43:09.239 process gap. It is based  
NOTE Confidence: 0.92602915

00:43:09.239 --> 00:43:10.440 on payment. It's not based  
NOTE Confidence: 0.92602915

00:43:10.440 --> 00:43:11.580 on, factual  
NOTE Confidence: 0.9878571

00:43:11.880 --> 00:43:12.620 piece. So  
NOTE Confidence: 0.98798317

00:43:13.045 --> 00:43:13.925 I think that that is  
NOTE Confidence: 0.98798317

00:43:13.925 --> 00:43:15.525 an area we can improve  
NOTE Confidence: 0.98798317

00:43:15.525 --> 00:43:16.405 as well as even the  
NOTE Confidence: 0.98798317

00:43:16.405 --> 00:43:17.605 ones we already collect. How  
NOTE Confidence: 0.98798317

00:43:17.605 --> 00:43:18.565 do we collect them in  
NOTE Confidence: 0.98798317

00:43:18.565 --> 00:43:19.945 a more meaningful way that's

NOTE Confidence: 0.98798317

00:43:20.085 --> 00:43:21.305 thinking about the patient's

NOTE Confidence: 0.992557

00:43:21.765 --> 00:43:22.265 responses,

NOTE Confidence: 0.9910627

00:43:22.965 --> 00:43:24.005 and and where they're at

NOTE Confidence: 0.9910627

00:43:24.005 --> 00:43:24.505 versus

NOTE Confidence: 0.94481623

00:43:25.285 --> 00:43:26.505 just how things are paid,

NOTE Confidence: 0.8871028

00:43:26.965 --> 00:43:27.625 I guess.

NOTE Confidence: 0.87069535

00:43:30.119 --> 00:43:31.319 I I have a,

NOTE Confidence: 0.874147

00:43:31.880 --> 00:43:33.640 another question. So I this

NOTE Confidence: 0.874147

00:43:33.640 --> 00:43:34.599 last sort of cuts up

NOTE Confidence: 0.874147

00:43:34.599 --> 00:43:35.239 sort of when you went

NOTE Confidence: 0.874147

00:43:35.239 --> 00:43:36.200 through that list of what

NOTE Confidence: 0.874147

00:43:36.200 --> 00:43:38.119 your patients report as as

NOTE Confidence: 0.874147

00:43:38.119 --> 00:43:38.920 their goals and sort of

NOTE Confidence: 0.874147

00:43:38.920 --> 00:43:39.960 that bottom sort of being,

NOTE Confidence: 0.874147

00:43:39.960 --> 00:43:42.359 like, employment or avoiding criminal

NOTE Confidence: 0.874147

00:43:42.359 --> 00:43:42.795 justice,  
NOTE Confidence: 0.96120524  
00:43:43.275 --> 00:43:45.114 contacts, sort of reconnecting with  
NOTE Confidence: 0.96120524  
00:43:45.114 --> 00:43:45.614 family.  
NOTE Confidence: 0.9312525  
00:43:45.994 --> 00:43:46.875 I I'd love your thoughts  
NOTE Confidence: 0.9312525  
00:43:46.875 --> 00:43:47.835 on sort of like there  
NOTE Confidence: 0.9312525  
00:43:47.835 --> 00:43:49.135 are it's challenging,  
NOTE Confidence: 0.91156936  
00:43:49.674 --> 00:43:50.875 but there are ways to  
NOTE Confidence: 0.91156936  
00:43:50.875 --> 00:43:52.555 get at administrative data sets  
NOTE Confidence: 0.91156936  
00:43:52.555 --> 00:43:53.775 to get at some of  
NOTE Confidence: 0.9642021  
00:43:55.194 --> 00:43:56.300 and, like, I've spent a  
NOTE Confidence: 0.9642021  
00:43:56.300 --> 00:43:57.420 lot of time trying to  
NOTE Confidence: 0.9642021  
00:43:57.420 --> 00:43:58.800 get access to that data,  
NOTE Confidence: 0.9760917  
00:43:59.340 --> 00:44:01.260 through, like, you know, using  
NOTE Confidence: 0.9760917  
00:44:01.260 --> 00:44:03.100 IRS records or using employment  
NOTE Confidence: 0.9760917  
00:44:03.100 --> 00:44:04.300 records or using some or  
NOTE Confidence: 0.9760917  
00:44:04.300 --> 00:44:05.680 sort of criminal justice records.

NOTE Confidence: 0.98159146  
00:44:06.380 --> 00:44:07.820 It's a challenge. But is  
NOTE Confidence: 0.98159146  
00:44:07.820 --> 00:44:07.980 that  
NOTE Confidence: 0.9721078  
00:44:08.915 --> 00:44:09.795 doing that type of work  
NOTE Confidence: 0.9721078  
00:44:09.795 --> 00:44:10.835 where you're linking sort of  
NOTE Confidence: 0.9721078  
00:44:10.835 --> 00:44:12.275 treatment to sort of other  
NOTE Confidence: 0.9721078  
00:44:12.275 --> 00:44:12.775 datasets,  
NOTE Confidence: 0.9955571  
00:44:13.234 --> 00:44:14.594 does that actually achieve what  
NOTE Confidence: 0.9955571  
00:44:14.594 --> 00:44:15.635 you would have in mind?  
NOTE Confidence: 0.9955571  
00:44:15.635 --> 00:44:16.915 Because, like, is it still,  
NOTE Confidence: 0.9955571  
00:44:16.915 --> 00:44:17.815 like, not  
NOTE Confidence: 0.8167243  
00:44:18.114 --> 00:44:19.395 accurate on the patient centered  
NOTE Confidence: 0.8167243  
00:44:19.395 --> 00:44:20.275 goals or sort of, like,  
NOTE Confidence: 0.8167243  
00:44:20.275 --> 00:44:21.635 still it's like me saying  
NOTE Confidence: 0.8167243  
00:44:21.635 --> 00:44:23.494 that optimal goal is  
NOTE Confidence: 0.9538888  
00:44:23.920 --> 00:44:25.440 seventy five percent employment or  
NOTE Confidence: 0.9538888

00:44:25.440 --> 00:44:26.480 whatever whatever make up the

NOTE Confidence: 0.9538888

00:44:26.480 --> 00:44:27.760 number. Is that type of

NOTE Confidence: 0.9538888

00:44:27.760 --> 00:44:28.880 work sort of meet some

NOTE Confidence: 0.9538888

00:44:28.880 --> 00:44:29.840 of the needs, or is

NOTE Confidence: 0.9538888

00:44:29.840 --> 00:44:30.739 it still insufficient

NOTE Confidence: 0.95111626

00:44:31.120 --> 00:44:31.860 to do that?

NOTE Confidence: 0.9994682

00:44:32.960 --> 00:44:34.500 Yes. That makes sense.

NOTE Confidence: 0.9992156

00:44:34.880 --> 00:44:35.540 I think

NOTE Confidence: 0.9932664

00:44:36.775 --> 00:44:38.055 I don't have a clear

NOTE Confidence: 0.9932664

00:44:38.055 --> 00:44:39.175 answer to it. I think

NOTE Confidence: 0.9932664

00:44:39.175 --> 00:44:40.614 that that's more of, an

NOTE Confidence: 0.9932664

00:44:40.614 --> 00:44:41.835 area I'd like to continue

NOTE Confidence: 0.9932664

00:44:41.895 --> 00:44:43.255 to dive into, and I'm

NOTE Confidence: 0.9932664

00:44:43.255 --> 00:44:44.455 happy to talk more about

NOTE Confidence: 0.9932664

00:44:44.455 --> 00:44:45.255 it as well. I think

NOTE Confidence: 0.9932664

00:44:45.255 --> 00:44:45.755 that

NOTE Confidence: 0.97877735  
00:44:46.695 --> 00:44:48.075 anything that you look at  
NOTE Confidence: 0.97877735  
00:44:48.135 --> 00:44:49.735 besides what is just this  
NOTE Confidence: 0.97877735  
00:44:49.735 --> 00:44:50.535 is what we do and  
NOTE Confidence: 0.97877735  
00:44:50.535 --> 00:44:51.950 what we've done is an  
NOTE Confidence: 0.97877735  
00:44:51.950 --> 00:44:53.069 improvement, because it starts to  
NOTE Confidence: 0.97877735  
00:44:53.069 --> 00:44:54.049 understand the complexity  
NOTE Confidence: 0.9979558  
00:44:54.589 --> 00:44:55.969 of the patient experience.  
NOTE Confidence: 0.9757746  
00:44:56.750 --> 00:44:58.109 And when we continue to  
NOTE Confidence: 0.9757746  
00:44:58.109 --> 00:44:59.230 just use the same metrics  
NOTE Confidence: 0.9757746  
00:44:59.230 --> 00:45:00.430 because that's what's been used  
NOTE Confidence: 0.9757746  
00:45:00.430 --> 00:45:02.130 before, I think we lose  
NOTE Confidence: 0.9757746  
00:45:02.190 --> 00:45:02.690 that.  
NOTE Confidence: 0.95444465  
00:45:03.230 --> 00:45:04.989 And again, I'm not unique  
NOTE Confidence: 0.95444465  
00:45:04.989 --> 00:45:05.705 to it. I I I  
NOTE Confidence: 0.95444465  
00:45:05.705 --> 00:45:06.825 am guilty of this as  
NOTE Confidence: 0.95444465

00:45:06.825 --> 00:45:07.785 well sometimes where we tend  
NOTE Confidence: 0.95444465

00:45:07.785 --> 00:45:08.425 to just go, this is  
NOTE Confidence: 0.95444465

00:45:08.425 --> 00:45:09.545 what what's been measured. Let's  
NOTE Confidence: 0.95444465

00:45:09.545 --> 00:45:10.745 stick with it. So I  
NOTE Confidence: 0.95444465

00:45:10.745 --> 00:45:12.025 think anytime you try to  
NOTE Confidence: 0.95444465

00:45:12.025 --> 00:45:13.065 advance that, it's good. But  
NOTE Confidence: 0.95444465

00:45:13.065 --> 00:45:14.265 I think that that is  
NOTE Confidence: 0.95444465

00:45:14.265 --> 00:45:15.625 empirically something that we could  
NOTE Confidence: 0.95444465

00:45:15.625 --> 00:45:16.825 look at. And I think  
NOTE Confidence: 0.95444465

00:45:16.825 --> 00:45:18.265 that you would do studies  
NOTE Confidence: 0.95444465

00:45:18.265 --> 00:45:19.500 where you ask people if  
NOTE Confidence: 0.95444465

00:45:19.500 --> 00:45:20.700 how their treatments are going,  
NOTE Confidence: 0.95444465

00:45:20.700 --> 00:45:22.219 and you also pull in  
NOTE Confidence: 0.95444465

00:45:22.219 --> 00:45:23.580 this data so you understand  
NOTE Confidence: 0.95444465

00:45:23.580 --> 00:45:24.620 if people are getting jobs,  
NOTE Confidence: 0.95444465

00:45:24.620 --> 00:45:25.660 are they feeling like the

NOTE Confidence: 0.95444465  
00:45:25.660 --> 00:45:27.020 recovery is going well? I  
NOTE Confidence: 0.95444465  
00:45:27.020 --> 00:45:28.380 mean, it's plausible that getting  
NOTE Confidence: 0.95444465  
00:45:28.380 --> 00:45:29.680 employment could actually,  
NOTE Confidence: 0.98501694  
00:45:30.060 --> 00:45:31.420 you know, be negative to  
NOTE Confidence: 0.98501694  
00:45:31.420 --> 00:45:32.940 recovery, especially if it happens  
NOTE Confidence: 0.98501694  
00:45:32.940 --> 00:45:34.060 too soon or something else.  
NOTE Confidence: 0.98501694  
00:45:34.060 --> 00:45:35.234 I don't know. So I  
NOTE Confidence: 0.98501694  
00:45:35.234 --> 00:45:36.194 don't think it's as easy  
NOTE Confidence: 0.98501694  
00:45:36.194 --> 00:45:37.075 to say this is what  
NOTE Confidence: 0.98501694  
00:45:37.075 --> 00:45:37.954 we need to measure because  
NOTE Confidence: 0.98501694  
00:45:37.954 --> 00:45:38.914 that's gonna solve it. I  
NOTE Confidence: 0.98501694  
00:45:38.914 --> 00:45:39.575 think it's  
NOTE Confidence: 0.9995902  
00:45:40.434 --> 00:45:41.634 we need to do better  
NOTE Confidence: 0.9995902  
00:45:41.634 --> 00:45:43.094 with how we're thinking about  
NOTE Confidence: 0.9930978  
00:45:43.634 --> 00:45:44.855 capturing success,  
NOTE Confidence: 0.99328685

00:45:45.394 --> 00:45:46.674 of these policies and these  
NOTE Confidence: 0.99328685

00:45:46.674 --> 00:45:47.174 changes.  
NOTE Confidence: 0.9453042

00:45:48.300 --> 00:45:49.500 Yeah. Along those lines, I  
NOTE Confidence: 0.9453042

00:45:49.500 --> 00:45:50.140 would say we need to  
NOTE Confidence: 0.9453042

00:45:50.140 --> 00:45:51.500 do better with patient reported  
NOTE Confidence: 0.9453042

00:45:51.500 --> 00:45:53.420 outcomes. Yes. It's just a  
NOTE Confidence: 0.9453042

00:45:53.420 --> 00:45:55.040 huge individual variability  
NOTE Confidence: 0.9304073

00:45:55.420 --> 00:45:57.100 in those those values so  
NOTE Confidence: 0.9304073

00:45:57.100 --> 00:45:58.080 that it can be  
NOTE Confidence: 0.9150455

00:45:58.860 --> 00:45:59.840 fairly misleading.  
NOTE Confidence: 0.88166136

00:46:00.195 --> 00:46:01.395 I years ago, I did  
NOTE Confidence: 0.88166136

00:46:01.395 --> 00:46:02.114 a study where we were  
NOTE Confidence: 0.88166136

00:46:02.114 --> 00:46:03.235 looking at quality of life,  
NOTE Confidence: 0.88166136

00:46:03.235 --> 00:46:04.755 reported self reported quality of  
NOTE Confidence: 0.88166136

00:46:04.755 --> 00:46:05.895 life, health report,  
NOTE Confidence: 0.9906085

00:46:07.155 --> 00:46:08.375 in people with HIV.

NOTE Confidence: 0.95001125  
00:46:08.915 --> 00:46:09.875 And the group that had  
NOTE Confidence: 0.95001125  
00:46:09.875 --> 00:46:11.715 the quote worst quality of  
NOTE Confidence: 0.95001125  
00:46:11.715 --> 00:46:13.475 life were white men who  
NOTE Confidence: 0.95001125  
00:46:13.475 --> 00:46:14.695 were relatively healthy.  
NOTE Confidence: 0.99427706  
00:46:15.590 --> 00:46:17.050 And the group that had  
NOTE Confidence: 0.99427706  
00:46:17.190 --> 00:46:18.710 the best quality of life  
NOTE Confidence: 0.99427706  
00:46:18.710 --> 00:46:20.010 were older black men,  
NOTE Confidence: 0.9836213  
00:46:20.310 --> 00:46:21.510 which were who were quite  
NOTE Confidence: 0.9836213  
00:46:21.510 --> 00:46:22.010 sick.  
NOTE Confidence: 0.99866873  
00:46:22.790 --> 00:46:24.070 It's all relative to your  
NOTE Confidence: 0.99866873  
00:46:24.070 --> 00:46:24.570 environment  
NOTE Confidence: 0.99298394  
00:46:24.870 --> 00:46:25.750 in terms of how you  
NOTE Confidence: 0.99298394  
00:46:25.750 --> 00:46:27.610 report those factors. So  
NOTE Confidence: 0.9960879  
00:46:28.105 --> 00:46:28.844 I I  
NOTE Confidence: 0.99724764  
00:46:29.305 --> 00:46:30.265 well, I think it's really  
NOTE Confidence: 0.99724764

00:46:30.265 --> 00:46:31.545 important to ask people how  
NOTE Confidence: 0.99724764

00:46:31.545 --> 00:46:32.585 they're doing and the kinds  
NOTE Confidence: 0.99724764

00:46:32.585 --> 00:46:33.965 of questions that you're raising.  
NOTE Confidence: 0.99724764

00:46:34.105 --> 00:46:35.485 There are all kinds of  
NOTE Confidence: 0.99724764

00:46:35.705 --> 00:46:36.844 measurement problems  
NOTE Confidence: 0.96955013

00:46:37.225 --> 00:46:38.265 just trying to use those  
NOTE Confidence: 0.96955013

00:46:38.265 --> 00:46:39.625 as outcomes that we need  
NOTE Confidence: 0.96955013

00:46:39.625 --> 00:46:40.425 to figure out how to  
NOTE Confidence: 0.96955013

00:46:40.425 --> 00:46:41.305 solve. I mean, I'm not  
NOTE Confidence: 0.96955013

00:46:41.305 --> 00:46:42.745 saying abandon them, but I'm  
NOTE Confidence: 0.96955013

00:46:42.745 --> 00:46:43.245 saying  
NOTE Confidence: 0.9544218

00:46:43.760 --> 00:46:44.800 be dubious of the current  
NOTE Confidence: 0.9544218

00:46:44.800 --> 00:46:45.920 ones that we use because  
NOTE Confidence: 0.9544218

00:46:45.920 --> 00:46:46.880 they they have a lot  
NOTE Confidence: 0.9544218

00:46:46.880 --> 00:46:48.559 of problems too. Yeah. No.  
NOTE Confidence: 0.9544218

00:46:48.559 --> 00:46:49.059 Everything's

NOTE Confidence: 0.9459991

00:46:49.440 --> 00:46:50.559 very imperfect here. And I

NOTE Confidence: 0.9459991

00:46:50.559 --> 00:46:51.599 think in that example, you

NOTE Confidence: 0.9459991

00:46:51.599 --> 00:46:53.520 give perfectly, like, hopelessness is

NOTE Confidence: 0.9459991

00:46:53.520 --> 00:46:54.400 one of the number one

NOTE Confidence: 0.9459991

00:46:54.400 --> 00:46:55.680 predictors of suicide. Right? And

NOTE Confidence: 0.9459991

00:46:55.680 --> 00:46:56.719 so even if that person's

NOTE Confidence: 0.9459991

00:46:56.719 --> 00:46:57.344 in a

NOTE Confidence: 0.9528216

00:46:57.905 --> 00:46:59.984 a good social environment, everything

NOTE Confidence: 0.9528216

00:46:59.984 --> 00:47:00.945 looks good, but they are

NOTE Confidence: 0.9528216

00:47:00.945 --> 00:47:02.545 feeling hopeless, you know, they

NOTE Confidence: 0.9528216

00:47:02.545 --> 00:47:03.344 might be at the highest

NOTE Confidence: 0.9528216

00:47:03.344 --> 00:47:04.545 risk for an adverse event,

NOTE Confidence: 0.9528216

00:47:04.545 --> 00:47:05.825 whereas, you know, the other

NOTE Confidence: 0.9528216

00:47:05.825 --> 00:47:06.864 individual who's at a worse

NOTE Confidence: 0.9528216

00:47:06.864 --> 00:47:07.905 circumstance. So I I think

NOTE Confidence: 0.9528216

00:47:07.905 --> 00:47:09.600 it's very challenging, and I  
NOTE Confidence: 0.9528216

00:47:09.600 --> 00:47:11.120 do appreciate the things like  
NOTE Confidence: 0.9528216

00:47:11.120 --> 00:47:12.480 z codes exist, and maybe  
NOTE Confidence: 0.9528216

00:47:12.480 --> 00:47:13.440 that's a piece of it.  
NOTE Confidence: 0.9528216

00:47:13.440 --> 00:47:14.800 I know clinical notes exist.  
NOTE Confidence: 0.9528216

00:47:14.800 --> 00:47:15.920 I don't know. I don't  
NOTE Confidence: 0.9528216

00:47:15.920 --> 00:47:16.560 know. I mean, I think  
NOTE Confidence: 0.9528216

00:47:16.560 --> 00:47:17.760 that that's why I'm presenting  
NOTE Confidence: 0.9528216

00:47:17.760 --> 00:47:18.560 this. This is my this  
NOTE Confidence: 0.9528216

00:47:18.560 --> 00:47:19.360 is where my head is  
NOTE Confidence: 0.9528216

00:47:19.360 --> 00:47:20.880 most days now, is understanding  
NOTE Confidence: 0.9528216

00:47:20.880 --> 00:47:21.920 how to measure these things  
NOTE Confidence: 0.9528216

00:47:21.920 --> 00:47:22.420 better.  
NOTE Confidence: 0.930293

00:47:22.720 --> 00:47:23.600 And so I I was  
NOTE Confidence: 0.930293

00:47:23.600 --> 00:47:24.480 hoping to bring them up  
NOTE Confidence: 0.930293

00:47:24.480 --> 00:47:25.335 so other people would that

NOTE Confidence: 0.930293  
00:47:25.415 --> 00:47:26.295 are interested and it can  
NOTE Confidence: 0.930293  
00:47:26.295 --> 00:47:27.355 continue this discussion.  
NOTE Confidence: 0.9813353  
00:47:27.895 --> 00:47:29.355 I think if you ask  
NOTE Confidence: 0.9813353  
00:47:29.415 --> 00:47:30.315 the same person  
NOTE Confidence: 0.93308103  
00:47:30.695 --> 00:47:31.974 Yeah. What's been in the  
NOTE Confidence: 0.93308103  
00:47:31.974 --> 00:47:33.494 series and they become their  
NOTE Confidence: 0.93308103  
00:47:33.494 --> 00:47:35.015 own control Yes. Is a  
NOTE Confidence: 0.93308103  
00:47:35.015 --> 00:47:36.695 more useful metric. But when  
NOTE Confidence: 0.93308103  
00:47:36.695 --> 00:47:37.494 you try to do it  
NOTE Confidence: 0.93308103  
00:47:37.494 --> 00:47:38.795 on a population level,  
NOTE Confidence: 0.9978627  
00:47:39.260 --> 00:47:40.140 you get into all kinds  
NOTE Confidence: 0.9978627  
00:47:40.140 --> 00:47:41.339 of problems. Yeah. I think  
NOTE Confidence: 0.9978627  
00:47:41.339 --> 00:47:42.239 that makes sense.  
NOTE Confidence: 0.9947195  
00:47:44.219 --> 00:47:45.520 Thank you for your talk.  
NOTE Confidence: 0.99308777  
00:47:46.619 --> 00:47:47.579 I'm just looking at the  
NOTE Confidence: 0.99308777

00:47:47.579 --> 00:47:48.700 first author on the book  
NOTE Confidence: 0.99308777

00:47:48.700 --> 00:47:49.980 that you're describing and thinking  
NOTE Confidence: 0.99308777

00:47:49.980 --> 00:47:51.500 about. Are there communities or  
NOTE Confidence: 0.99308777

00:47:51.500 --> 00:47:52.000 states  
NOTE Confidence: 0.98813164

00:47:52.780 --> 00:47:54.319 in the United States where  
NOTE Confidence: 0.9867945

00:47:54.875 --> 00:47:56.655 where simple, you know, interpretations  
NOTE Confidence: 0.9867945

00:47:56.875 --> 00:47:57.674 have not created  
NOTE Confidence: 0.8803453

00:47:58.155 --> 00:47:59.934 where where they're less inclined  
NOTE Confidence: 0.8803453

00:48:00.155 --> 00:48:01.194 where they're where they're less  
NOTE Confidence: 0.8803453

00:48:01.194 --> 00:48:02.954 reactive. Right? In theory, Connecticut  
NOTE Confidence: 0.8803453

00:48:02.954 --> 00:48:04.075 in theory is is a  
NOTE Confidence: 0.8803453

00:48:04.075 --> 00:48:04.575 pretty  
NOTE Confidence: 0.8781266

00:48:05.194 --> 00:48:06.795 felt to be reasonable, generous  
NOTE Confidence: 0.8781266

00:48:06.795 --> 00:48:08.234 state in terms of thinking  
NOTE Confidence: 0.8781266

00:48:08.234 --> 00:48:08.974 about Medicaid.  
NOTE Confidence: 0.9338338

00:48:09.840 --> 00:48:11.440 But, are there other places

NOTE Confidence: 0.9338338  
00:48:11.440 --> 00:48:13.760 where where they've been more  
NOTE Confidence: 0.9338338  
00:48:13.760 --> 00:48:15.280 careful with data in terms  
NOTE Confidence: 0.9338338  
00:48:15.280 --> 00:48:16.420 of implementing both  
NOTE Confidence: 0.8303532  
00:48:17.520 --> 00:48:18.820 laws or guidelines,  
NOTE Confidence: 0.9962515  
00:48:20.720 --> 00:48:22.160 that you can share with  
NOTE Confidence: 0.9962515  
00:48:22.160 --> 00:48:22.660 us?  
NOTE Confidence: 0.9767481  
00:48:23.885 --> 00:48:25.405 I'm unfortunately not the right  
NOTE Confidence: 0.9767481  
00:48:25.405 --> 00:48:26.364 person to ask about that.  
NOTE Confidence: 0.9767481  
00:48:26.364 --> 00:48:28.045 I love the question, and  
NOTE Confidence: 0.9767481  
00:48:28.045 --> 00:48:29.165 I think it's something that  
NOTE Confidence: 0.9767481  
00:48:29.165 --> 00:48:30.444 I'd be very interested in  
NOTE Confidence: 0.9767481  
00:48:30.444 --> 00:48:31.405 knowing. I don't think I  
NOTE Confidence: 0.9767481  
00:48:31.405 --> 00:48:32.145 have enough  
NOTE Confidence: 0.953553  
00:48:33.165 --> 00:48:34.765 firsthand experience with the policy  
NOTE Confidence: 0.953553  
00:48:34.765 --> 00:48:36.285 making side of it. I  
NOTE Confidence: 0.953553

00:48:36.285 --> 00:48:37.964 mean, I've definitely I saw  
NOTE Confidence: 0.953553

00:48:37.964 --> 00:48:38.464 it.  
NOTE Confidence: 0.96101487

00:48:38.829 --> 00:48:40.270 I worked for the US  
NOTE Confidence: 0.96101487

00:48:40.270 --> 00:48:40.989 army for a bit in  
NOTE Confidence: 0.96101487

00:48:40.989 --> 00:48:41.950 the public health command, and  
NOTE Confidence: 0.96101487

00:48:41.950 --> 00:48:43.150 so we would get called  
NOTE Confidence: 0.96101487

00:48:43.150 --> 00:48:45.250 out to do outbreak investigations  
NOTE Confidence: 0.96101487

00:48:45.469 --> 00:48:46.989 of mental health issues by  
NOTE Confidence: 0.96101487

00:48:46.989 --> 00:48:47.489 generals.  
NOTE Confidence: 0.9273965

00:48:47.869 --> 00:48:49.150 And so you saw the  
NOTE Confidence: 0.9273965

00:48:49.150 --> 00:48:50.750 different scope of generals where  
NOTE Confidence: 0.9273965

00:48:50.750 --> 00:48:51.469 some of them would hear  
NOTE Confidence: 0.9273965

00:48:51.469 --> 00:48:52.190 the data and just go,  
NOTE Confidence: 0.9273965

00:48:52.190 --> 00:48:52.830 this is what I'm doing.  
NOTE Confidence: 0.9273965

00:48:52.830 --> 00:48:53.710 I don't really care what  
NOTE Confidence: 0.9273965

00:48:53.710 --> 00:48:54.805 you say. You'd see other

NOTE Confidence: 0.9273965  
00:48:54.805 --> 00:48:55.844 people that want to have  
NOTE Confidence: 0.9273965  
00:48:55.844 --> 00:48:58.085 discussion with you. So that  
NOTE Confidence: 0.9273965  
00:48:58.085 --> 00:48:59.364 exists on a continuum, and  
NOTE Confidence: 0.9273965  
00:48:59.364 --> 00:49:00.085 I think it I'm sure  
NOTE Confidence: 0.9273965  
00:49:00.085 --> 00:49:01.385 it exists on a continuum  
NOTE Confidence: 0.9273965  
00:49:01.445 --> 00:49:02.885 elsewhere. I don't have examples  
NOTE Confidence: 0.9273965  
00:49:02.885 --> 00:49:04.325 of it. The exemplars. Right?  
NOTE Confidence: 0.9273965  
00:49:04.325 --> 00:49:05.445 So where where are people  
NOTE Confidence: 0.9273965  
00:49:05.445 --> 00:49:06.405 doing it? It doesn't have  
NOTE Confidence: 0.9273965  
00:49:06.405 --> 00:49:07.005 to be a cookie cutter  
NOTE Confidence: 0.9273965  
00:49:07.005 --> 00:49:07.765 at one size, but it's  
NOTE Confidence: 0.9273965  
00:49:07.765 --> 00:49:08.645 all it's gonna be very  
NOTE Confidence: 0.9273965  
00:49:08.645 --> 00:49:10.049 good. Yeah. Words.  
NOTE Confidence: 0.62942773  
00:49:10.589 --> 00:49:11.489 We know them.  
NOTE Confidence: 0.98413134  
00:49:11.950 --> 00:49:12.769 I am too.  
NOTE Confidence: 0.5321178

00:49:13.069 --> 00:49:14.369 I wanna think of it.  
NOTE Confidence: 0.93646085

00:49:16.750 --> 00:49:17.250 Yeah.  
NOTE Confidence: 0.6378346

00:49:17.950 --> 00:49:19.329 Comment or the question comment?  
NOTE Confidence: 0.87198895

00:49:20.109 --> 00:49:21.309 It's very hard to get  
NOTE Confidence: 0.87198895

00:49:21.309 --> 00:49:22.529 people to fill out.  
NOTE Confidence: 0.7953798

00:49:24.835 --> 00:49:25.795 One of the problems with  
NOTE Confidence: 0.7953798

00:49:25.795 --> 00:49:26.375 the metric.  
NOTE Confidence: 0.86257184

00:49:27.555 --> 00:49:29.155 The how what you're asking  
NOTE Confidence: 0.86257184

00:49:29.155 --> 00:49:29.895 them to do,  
NOTE Confidence: 0.9136668

00:49:30.594 --> 00:49:32.035 what they do. In the  
NOTE Confidence: 0.9136668

00:49:32.035 --> 00:49:33.395 cancer field, roughly, I don't  
NOTE Confidence: 0.9136668

00:49:33.395 --> 00:49:34.275 know, seven or eight years  
NOTE Confidence: 0.9136668

00:49:34.275 --> 00:49:35.475 ago, a huge study came  
NOTE Confidence: 0.9136668

00:49:35.475 --> 00:49:36.215 out, randomized.  
NOTE Confidence: 0.82916844

00:49:36.995 --> 00:49:38.195 People were getting chemo.  
NOTE Confidence: 0.9359049

00:49:38.594 --> 00:49:39.895 Half of them were randomized

NOTE Confidence: 0.9359049  
00:49:40.035 --> 00:49:40.650 to patient  
NOTE Confidence: 0.6541187  
00:49:41.609 --> 00:49:42.989 electronic, and the  
NOTE Confidence: 0.8228709  
00:49:43.609 --> 00:49:44.809 alert would go off if  
NOTE Confidence: 0.8228709  
00:49:44.809 --> 00:49:46.010 they're having symptoms and the  
NOTE Confidence: 0.8228709  
00:49:46.010 --> 00:49:47.869 other half is usual care.  
NOTE Confidence: 0.98815787  
00:49:48.569 --> 00:49:50.510 People randomized to the PRO  
NOTE Confidence: 0.9547676  
00:49:51.770 --> 00:49:53.150 group ended up having  
NOTE Confidence: 0.90979147  
00:49:53.609 --> 00:49:54.829 actually better survival  
NOTE Confidence: 0.89757836  
00:49:55.285 --> 00:49:56.805 because the, the bell would  
NOTE Confidence: 0.89757836  
00:49:56.805 --> 00:49:57.925 go off if they're nauseous,  
NOTE Confidence: 0.89757836  
00:49:57.925 --> 00:49:58.885 and the nurse would call  
NOTE Confidence: 0.89757836  
00:49:58.885 --> 00:49:59.844 them and say, here you're  
NOTE Confidence: 0.89757836  
00:49:59.844 --> 00:50:01.045 nauseous. Let's give you this.  
NOTE Confidence: 0.89757836  
00:50:01.045 --> 00:50:01.844 We'll keep you out of  
NOTE Confidence: 0.89757836  
00:50:01.844 --> 00:50:02.965 the ER. They could stay  
NOTE Confidence: 0.89757836

00:50:02.965 --> 00:50:04.645 on their treatment longer. Mhmm.

NOTE Confidence: 0.89757836

00:50:04.805 --> 00:50:05.685 If we were able to

NOTE Confidence: 0.89757836

00:50:05.685 --> 00:50:06.985 finish the course of therapy.

NOTE Confidence: 0.89757836

00:50:07.250 --> 00:50:08.130 The people came back from

NOTE Confidence: 0.89757836

00:50:08.130 --> 00:50:09.910 the big ASCO annual meeting.

NOTE Confidence: 0.89757836

00:50:10.130 --> 00:50:11.030 So this is a plenary

NOTE Confidence: 0.89757836

00:50:11.170 --> 00:50:12.650 presentation, and the person did

NOTE Confidence: 0.89757836

00:50:12.650 --> 00:50:13.750 a great job presenting

NOTE Confidence: 0.7343602

00:50:14.210 --> 00:50:15.489 to you. Basically, putting up

NOTE Confidence: 0.7343602

00:50:15.489 --> 00:50:17.349 their PRO, have the intervention,

NOTE Confidence: 0.8631358

00:50:18.049 --> 00:50:19.010 comparing it to all the

NOTE Confidence: 0.8631358

00:50:19.010 --> 00:50:20.450 big chemo drugs. Like, this

NOTE Confidence: 0.8631358

00:50:20.450 --> 00:50:21.730 is just as good as

NOTE Confidence: 0.8631358

00:50:21.730 --> 00:50:22.935 Beviz is and that. Then

NOTE Confidence: 0.5714244

00:50:23.575 --> 00:50:24.075 checkpoint,

NOTE Confidence: 0.82921827

00:50:24.535 --> 00:50:25.755 it sounds a lot cheaper.

NOTE Confidence: 0.82921827  
00:50:25.815 --> 00:50:27.094 So everybody came back across  
NOTE Confidence: 0.82921827  
00:50:27.094 --> 00:50:28.535 the country. We've gotta do  
NOTE Confidence: 0.82921827  
00:50:28.535 --> 00:50:29.614 this. The of course, this  
NOTE Confidence: 0.82921827  
00:50:29.614 --> 00:50:31.094 is we gotta start measuring  
NOTE Confidence: 0.82921827  
00:50:31.094 --> 00:50:32.315 PROs and our time.  
NOTE Confidence: 0.88855296  
00:50:32.695 --> 00:50:33.975 Five years later, seven years  
NOTE Confidence: 0.88855296  
00:50:33.975 --> 00:50:36.135 later, almost nobody's doing. It's  
NOTE Confidence: 0.88855296  
00:50:36.135 --> 00:50:37.335 just real big so a  
NOTE Confidence: 0.88855296  
00:50:37.335 --> 00:50:38.155 big challenge  
NOTE Confidence: 0.9372386  
00:50:38.455 --> 00:50:40.190 is to figure out not  
NOTE Confidence: 0.9372386  
00:50:40.190 --> 00:50:41.549 only what to measure, when,  
NOTE Confidence: 0.9372386  
00:50:41.549 --> 00:50:42.270 where, and how to use  
NOTE Confidence: 0.9372386  
00:50:42.270 --> 00:50:43.010 it, but,  
NOTE Confidence: 0.99896544  
00:50:43.789 --> 00:50:45.549 how to make sure that  
NOTE Confidence: 0.99896544  
00:50:45.549 --> 00:50:46.049 we're  
NOTE Confidence: 0.7130742

00:50:47.150 --> 00:50:47.650 eventually,  
NOTE Confidence: 0.9965085  
00:50:49.069 --> 00:50:49.809 getting clinics  
NOTE Confidence: 0.863544  
00:50:50.190 --> 00:50:51.390 getting this embedded into the  
NOTE Confidence: 0.863544  
00:50:51.390 --> 00:50:51.890 clinical  
NOTE Confidence: 0.8733476  
00:50:52.270 --> 00:50:53.835 workflow. Mhmm. Be one of  
NOTE Confidence: 0.8733476  
00:50:53.835 --> 00:50:54.335 the  
NOTE Confidence: 0.81104964  
00:50:54.635 --> 00:50:56.315 main people I've found helpful  
NOTE Confidence: 0.81104964  
00:50:56.315 --> 00:50:57.835 is if patients can see  
NOTE Confidence: 0.81104964  
00:50:57.835 --> 00:50:58.975 it helpful for them  
NOTE Confidence: 0.8420059  
00:50:59.515 --> 00:51:00.315 in some way. So I'm  
NOTE Confidence: 0.8420059  
00:51:00.315 --> 00:51:01.055 just thinking  
NOTE Confidence: 0.64435375  
00:51:01.755 --> 00:51:02.575 about how to improve  
NOTE Confidence: 0.9171859  
00:51:02.875 --> 00:51:03.994 it here. It's what we  
NOTE Confidence: 0.9171859  
00:51:03.994 --> 00:51:05.195 figure out what we're trying  
NOTE Confidence: 0.9171859  
00:51:05.195 --> 00:51:06.800 to do. Yeah. No. I  
NOTE Confidence: 0.9171859  
00:51:06.800 --> 00:51:08.080 I find that that's a

NOTE Confidence: 0.9171859

00:51:08.080 --> 00:51:09.600 interesting area that I haven't

NOTE Confidence: 0.9171859

00:51:09.600 --> 00:51:10.640 done as much in. I

NOTE Confidence: 0.9171859

00:51:10.719 --> 00:51:12.400 with prescription drug monitoring programs,

NOTE Confidence: 0.9171859

00:51:12.400 --> 00:51:13.120 we did a little bit

NOTE Confidence: 0.9171859

00:51:13.120 --> 00:51:14.320 in how the clinical workflow

NOTE Confidence: 0.9171859

00:51:14.320 --> 00:51:15.520 and understanding how that, like,

NOTE Confidence: 0.9171859

00:51:15.520 --> 00:51:16.580 enters into it.

NOTE Confidence: 0.97881794

00:51:18.065 --> 00:51:19.585 It's, that's a whole other

NOTE Confidence: 0.97881794

00:51:19.585 --> 00:51:20.465 area of study that I

NOTE Confidence: 0.97881794

00:51:20.465 --> 00:51:21.505 think I find interesting, but

NOTE Confidence: 0.97881794

00:51:21.505 --> 00:51:22.385 I am not as familiar

NOTE Confidence: 0.97881794

00:51:22.385 --> 00:51:23.265 with. So I hope I

NOTE Confidence: 0.97881794

00:51:23.265 --> 00:51:24.485 can learn more about that.

NOTE Confidence: 0.8633338

00:51:25.105 --> 00:51:26.705 Question was, just as far

NOTE Confidence: 0.8633338

00:51:26.705 --> 00:51:28.545 as, interventions, just thinking about

NOTE Confidence: 0.8633338

00:51:28.545 --> 00:51:29.585 this PRO Yeah.  
NOTE Confidence: 0.6909879

00:51:29.985 --> 00:51:31.445 People's goals and  
NOTE Confidence: 0.66408527

00:51:34.890 --> 00:51:35.550 what we want to.  
NOTE Confidence: 0.81859463

00:51:36.250 --> 00:51:38.489 Are there inter studies ongoing  
NOTE Confidence: 0.81859463

00:51:38.489 --> 00:51:38.969 or,  
NOTE Confidence: 0.99963176

00:51:39.609 --> 00:51:41.550 interventions that are being evaluated  
NOTE Confidence: 0.97234994

00:51:42.489 --> 00:51:43.310 that are basically  
NOTE Confidence: 0.78268033

00:51:44.089 --> 00:51:46.510 multi prompt or adjuncts to  
NOTE Confidence: 0.8409779

00:51:49.295 --> 00:51:50.275 traditional pharmaceutical  
NOTE Confidence: 0.9965162

00:51:50.655 --> 00:51:51.155 approach  
NOTE Confidence: 0.99124956

00:51:51.535 --> 00:51:52.435 that would be  
NOTE Confidence: 0.89792717

00:51:53.215 --> 00:51:54.495 that have been shown to  
NOTE Confidence: 0.89792717

00:51:54.495 --> 00:51:56.175 be effective in some way  
NOTE Confidence: 0.89792717

00:51:56.175 --> 00:51:57.535 as far as, you know,  
NOTE Confidence: 0.89792717

00:51:57.535 --> 00:51:59.875 having getting jobs, take avoiding  
NOTE Confidence: 0.89792717

00:52:00.095 --> 00:52:01.535 conservation and things like that.

NOTE Confidence: 0.89792717  
00:52:01.535 --> 00:52:02.114 I mean,  
NOTE Confidence: 0.94627047  
00:52:03.890 --> 00:52:04.930 yes and no. I I  
NOTE Confidence: 0.94627047  
00:52:04.930 --> 00:52:06.210 think that there are clinical  
NOTE Confidence: 0.94627047  
00:52:06.210 --> 00:52:07.330 trials that are collecting those,  
NOTE Confidence: 0.94627047  
00:52:07.330 --> 00:52:08.050 but that's where it's really  
NOTE Confidence: 0.94627047  
00:52:08.050 --> 00:52:09.090 at is the clinical trials.  
NOTE Confidence: 0.94627047  
00:52:09.090 --> 00:52:10.050 I haven't seen it outside  
NOTE Confidence: 0.94627047  
00:52:10.050 --> 00:52:11.650 of that. So again, this  
NOTE Confidence: 0.94627047  
00:52:11.730 --> 00:52:13.250 those CTN studies that are  
NOTE Confidence: 0.94627047  
00:52:13.250 --> 00:52:14.610 being done through the NIH  
NOTE Confidence: 0.94627047  
00:52:14.610 --> 00:52:16.065 of the clinical trials network,  
NOTE Confidence: 0.94627047  
00:52:16.065 --> 00:52:17.265 like, they definitely have those  
NOTE Confidence: 0.94627047  
00:52:17.265 --> 00:52:18.385 outcomes and they have published  
NOTE Confidence: 0.94627047  
00:52:18.385 --> 00:52:19.425 papers that have looked at  
NOTE Confidence: 0.94627047  
00:52:19.425 --> 00:52:20.625 those kind of things for  
NOTE Confidence: 0.94627047

00:52:20.625 --> 00:52:22.465 buprenorphine and naltrexone, these other

NOTE Confidence: 0.94627047

00:52:22.465 --> 00:52:22.965 drugs.

NOTE Confidence: 0.9472556

00:52:23.825 --> 00:52:25.025 Haven't seen it outside of

NOTE Confidence: 0.9472556

00:52:25.025 --> 00:52:26.085 a clinical trial.

NOTE Confidence: 0.9311884

00:52:28.910 --> 00:52:29.950 But it's a discussion. I

NOTE Confidence: 0.9311884

00:52:29.950 --> 00:52:31.390 mean, editorials are everywhere now

NOTE Confidence: 0.9311884

00:52:31.390 --> 00:52:33.010 on this. So let's let's

NOTE Confidence: 0.940541

00:52:33.470 --> 00:52:34.590 you know, this this came

NOTE Confidence: 0.940541

00:52:34.590 --> 00:52:35.390 to my attention a few

NOTE Confidence: 0.940541

00:52:35.390 --> 00:52:36.190 years back, and now it's

NOTE Confidence: 0.940541

00:52:36.190 --> 00:52:37.410 like, I I feel like

NOTE Confidence: 0.940541

00:52:37.550 --> 00:52:38.590 it's a flood, you know.

NOTE Confidence: 0.940541

00:52:38.590 --> 00:52:39.790 I I think the scientific

NOTE Confidence: 0.940541

00:52:39.790 --> 00:52:41.070 consensus kinda moves, and I'm

NOTE Confidence: 0.940541

00:52:41.070 --> 00:52:42.344 not unique to it. So

NOTE Confidence: 0.940541

00:52:42.505 --> 00:52:43.465 I think it's discussions that

NOTE Confidence: 0.940541  
00:52:43.465 --> 00:52:44.665 are happening. It's just nobody  
NOTE Confidence: 0.940541  
00:52:44.665 --> 00:52:45.645 knows how to do it.  
NOTE Confidence: 0.9498861  
00:52:46.585 --> 00:52:47.385 Well, I have one more  
NOTE Confidence: 0.9498861  
00:52:47.385 --> 00:52:48.665 question on the Zoom. Is  
NOTE Confidence: 0.9498861  
00:52:48.665 --> 00:52:49.484 there okay.  
NOTE Confidence: 0.61327493  
00:52:51.224 --> 00:52:52.765 Good. One. Three question.  
NOTE Confidence: 0.97986823  
00:52:53.145 --> 00:52:54.585 Julia, do you wanna jump  
NOTE Confidence: 0.97986823  
00:52:54.585 --> 00:52:55.085 on?  
NOTE Confidence: 0.997747  
00:52:57.119 --> 00:52:57.920 Hi. Sure.  
NOTE Confidence: 0.9952641  
00:52:58.559 --> 00:52:59.519 Thank you so much for  
NOTE Confidence: 0.9952641  
00:52:59.519 --> 00:53:01.039 sharing this fascinating work. So  
NOTE Confidence: 0.9952641  
00:53:01.039 --> 00:53:02.400 I'm thinking about the global  
NOTE Confidence: 0.9952641  
00:53:02.400 --> 00:53:02.900 perspective,  
NOTE Confidence: 0.99074966  
00:53:03.359 --> 00:53:04.739 making it even more complex.  
NOTE Confidence: 0.9973173  
00:53:05.359 --> 00:53:05.859 And,  
NOTE Confidence: 0.99846905

00:53:06.160 --> 00:53:06.739 of course,  
NOTE Confidence: 0.9989548

00:53:07.599 --> 00:53:08.640 we want to be able  
NOTE Confidence: 0.9989548

00:53:08.640 --> 00:53:10.099 to compare what happens  
NOTE Confidence: 0.9951756

00:53:10.400 --> 00:53:11.700 in different contexts  
NOTE Confidence: 0.98605967

00:53:12.285 --> 00:53:13.505 and learn from that.  
NOTE Confidence: 0.9880223

00:53:13.885 --> 00:53:14.765 But then this,  
NOTE Confidence: 0.9977887

00:53:15.244 --> 00:53:16.684 question that you are,  
NOTE Confidence: 0.9771877

00:53:17.805 --> 00:53:19.665 grappling with and showing us  
NOTE Confidence: 0.9771877

00:53:19.964 --> 00:53:21.805 becomes even more complicated because  
NOTE Confidence: 0.9771877

00:53:21.805 --> 00:53:22.305 validating  
NOTE Confidence: 0.99669254

00:53:22.844 --> 00:53:24.285 even just one instrument for  
NOTE Confidence: 0.99669254

00:53:24.285 --> 00:53:25.964 different countries takes a lot  
NOTE Confidence: 0.99669254

00:53:25.964 --> 00:53:26.924 of effort and a lot  
NOTE Confidence: 0.99669254

00:53:26.924 --> 00:53:27.420 of work.  
NOTE Confidence: 0.99682355

00:53:27.900 --> 00:53:28.559 And then,  
NOTE Confidence: 0.972644

00:53:29.420 --> 00:53:30.859 if you validate it for

NOTE Confidence: 0.972644

00:53:30.859 --> 00:53:32.059 the language and then, for

NOTE Confidence: 0.972644

00:53:32.059 --> 00:53:33.660 example, like, if it's the

NOTE Confidence: 0.972644

00:53:33.660 --> 00:53:35.180 language in England versus the

NOTE Confidence: 0.972644

00:53:35.180 --> 00:53:36.859 language in Ireland, this is

NOTE Confidence: 0.972644

00:53:36.859 --> 00:53:37.359 also,

NOTE Confidence: 0.9845628

00:53:38.299 --> 00:53:40.480 an extra validation process. So

NOTE Confidence: 0.9845628

00:53:40.619 --> 00:53:42.155 is it, you know, is

NOTE Confidence: 0.9845628

00:53:42.155 --> 00:53:43.535 the juice worth the squeeze?

NOTE Confidence: 0.9845628

00:53:43.594 --> 00:53:44.575 Do you think that

NOTE Confidence: 0.9967308

00:53:45.355 --> 00:53:47.535 this is effort wisely spent?

NOTE Confidence: 0.99278927

00:53:48.075 --> 00:53:49.535 What would be your recommendation

NOTE Confidence: 0.99278927

00:53:49.675 --> 00:53:51.135 given what you've been learning?

NOTE Confidence: 0.99855626

00:53:52.234 --> 00:53:52.734 Yes.

NOTE Confidence: 0.969607

00:53:53.355 --> 00:53:55.455 That's a a great point.

NOTE Confidence: 0.96246654

00:53:59.250 --> 00:54:00.610 Is it worth it? I

NOTE Confidence: 0.96246654

00:54:00.610 --> 00:54:01.110 mean,  
NOTE Confidence: 0.986856  
00:54:02.290 --> 00:54:03.090 I think it is, but  
NOTE Confidence: 0.986856  
00:54:03.090 --> 00:54:04.210 I I think I also  
NOTE Confidence: 0.986856  
00:54:04.210 --> 00:54:05.430 understand that  
NOTE Confidence: 0.9995078  
00:54:05.890 --> 00:54:07.670 it's going to have translational  
NOTE Confidence: 0.79837656  
00:54:08.050 --> 00:54:08.550 problems.  
NOTE Confidence: 0.9785146  
00:54:09.090 --> 00:54:09.969 And so then it needs  
NOTE Confidence: 0.9785146  
00:54:09.969 --> 00:54:10.930 to be studied again and  
NOTE Confidence: 0.9785146  
00:54:10.930 --> 00:54:12.710 again in different contexts. So  
NOTE Confidence: 0.95838803  
00:54:13.944 --> 00:54:15.065 I think that the one  
NOTE Confidence: 0.95838803  
00:54:15.065 --> 00:54:16.025 of the questions that will  
NOTE Confidence: 0.95838803  
00:54:16.025 --> 00:54:17.145 have to come up is  
NOTE Confidence: 0.95838803  
00:54:17.145 --> 00:54:18.344 what is the consequence of  
NOTE Confidence: 0.95838803  
00:54:18.344 --> 00:54:19.704 using one measure over another?  
NOTE Confidence: 0.95838803  
00:54:19.704 --> 00:54:20.765 And I don't think we  
NOTE Confidence: 0.95838803  
00:54:20.825 --> 00:54:21.805 have that yet.

NOTE Confidence: 0.98073345

00:54:22.425 --> 00:54:23.405 And so maybe

NOTE Confidence: 0.9453725

00:54:24.184 --> 00:54:25.305 there have been studies that

NOTE Confidence: 0.9453725

00:54:25.305 --> 00:54:26.265 looked at hundred and eighty

NOTE Confidence: 0.9453725

00:54:26.265 --> 00:54:27.145 days and found it to

NOTE Confidence: 0.9453725

00:54:27.145 --> 00:54:28.994 be associated I'm I'm just

NOTE Confidence: 0.9453725

00:54:28.994 --> 00:54:30.829 using this example. I found

NOTE Confidence: 0.9453725

00:54:30.829 --> 00:54:32.665 it to be associated with

NOTE Confidence: 0.9453725

00:54:32.665 --> 00:54:34.867 reductions and, overdose deaths, and

NOTE Confidence: 0.9453725

00:54:34.867 --> 00:54:36.703 that's probably the main outcome

NOTE Confidence: 0.9453725

00:54:36.703 --> 00:54:38.905 they probably looked at. But

NOTE Confidence: 0.9453725

00:54:38.905 --> 00:54:40.741 it's not a perfect relationship.

NOTE Confidence: 0.9453725

00:54:40.741 --> 00:54:42.455 And so like many

NOTE Confidence: 0.9984629

00:54:42.995 --> 00:54:43.975 things, there's a lot

NOTE Confidence: 0.985552

00:54:44.435 --> 00:54:46.114 left that's not understood. And

NOTE Confidence: 0.985552

00:54:46.114 --> 00:54:47.235 so, like, you know, if

NOTE Confidence: 0.985552

00:54:47.235 --> 00:54:48.755 it reduces if it's a  
NOTE Confidence: 0.985552

00:54:48.755 --> 00:54:50.695 two percent reduction in overdoses,  
NOTE Confidence: 0.985552

00:54:50.755 --> 00:54:52.355 that could be scientifically significant,  
NOTE Confidence: 0.985552

00:54:52.515 --> 00:54:53.395 and could be something that  
NOTE Confidence: 0.985552

00:54:53.395 --> 00:54:54.435 we continue to use for  
NOTE Confidence: 0.985552

00:54:54.435 --> 00:54:55.080 that reason.  
NOTE Confidence: 0.9941311

00:54:55.880 --> 00:54:57.080 But is it meaningful? And  
NOTE Confidence: 0.9941311

00:54:57.080 --> 00:54:57.719 I I think that's a  
NOTE Confidence: 0.9941311

00:54:57.719 --> 00:54:59.160 discussion that we have to  
NOTE Confidence: 0.9941311

00:54:59.160 --> 00:55:00.360 continue to have. I I  
NOTE Confidence: 0.9941311

00:55:00.360 --> 00:55:01.320 don't have an answer for  
NOTE Confidence: 0.9941311

00:55:01.320 --> 00:55:01.820 it.  
NOTE Confidence: 0.99180925

00:55:03.880 --> 00:55:05.000 I I I hope that  
NOTE Confidence: 0.99180925

00:55:05.000 --> 00:55:06.040 next time I present, I  
NOTE Confidence: 0.99180925

00:55:06.040 --> 00:55:07.239 will have more thoughts as  
NOTE Confidence: 0.99180925

00:55:07.239 --> 00:55:08.280 I kinda dive into this

NOTE Confidence: 0.99180925

00:55:08.280 --> 00:55:09.755 research more empirically and understand

NOTE Confidence: 0.99180925

00:55:09.755 --> 00:55:10.475 that. But I I think

NOTE Confidence: 0.99180925

00:55:10.475 --> 00:55:11.594 that's a great point of

NOTE Confidence: 0.99180925

00:55:11.594 --> 00:55:12.635 understanding how much are we

NOTE Confidence: 0.99180925

00:55:12.635 --> 00:55:14.255 gaining from these different measures.

NOTE Confidence: 0.996348

00:55:14.955 --> 00:55:16.255 It's one thing to to

NOTE Confidence: 0.95805573

00:55:16.875 --> 00:55:19.114 encourage researchers and policymakers to

NOTE Confidence: 0.95805573

00:55:19.114 --> 00:55:20.335 think about the whole

NOTE Confidence: 0.9723655

00:55:20.795 --> 00:55:21.995 individual instead of just a

NOTE Confidence: 0.9723655

00:55:21.995 --> 00:55:23.160 piece of it. It's another

NOTE Confidence: 0.9723655

00:55:23.160 --> 00:55:24.580 to say what that costs,

NOTE Confidence: 0.9920828

00:55:25.120 --> 00:55:26.239 and that's not something I

NOTE Confidence: 0.9920828

00:55:26.239 --> 00:55:28.000 do as much. So I

NOTE Confidence: 0.9920828

00:55:28.000 --> 00:55:28.500 appreciate

NOTE Confidence: 0.99658996

00:55:29.360 --> 00:55:30.880 being reminded of my own

NOTE Confidence: 0.99658996

00:55:30.880 --> 00:55:31.380 limitations,  
NOTE Confidence: 0.98253584  
00:55:32.800 --> 00:55:33.920 in that piece. So, yeah,  
NOTE Confidence: 0.98253584  
00:55:33.920 --> 00:55:35.040 I think that's an interesting  
NOTE Confidence: 0.98253584  
00:55:35.040 --> 00:55:36.160 point to continue to think  
NOTE Confidence: 0.98253584  
00:55:36.160 --> 00:55:36.660 about.  
NOTE Confidence: 0.9010525  
00:55:38.244 --> 00:55:39.445 Well, it's a great session.  
NOTE Confidence: 0.9010525  
00:55:39.445 --> 00:55:40.905 Thank you. Thank you.