WEBVTT

NOTE duration:"00:19:48.0800000"

NOTE recognizability:0.854

NOTE language:en-us

NOTE Confidence: 0.8393825125

00:00:00.000 --> 00:00:01.095 All right, everyone.

NOTE Confidence: 0.8393825125

00:00:01.095 --> 00:00:03.650 We're going to go ahead and get

NOTE Confidence: 0.8393825125

00:00:03.726 --> 00:00:06.380 started again and and continue on.

NOTE Confidence: 0.8393825125

00:00:06.380 --> 00:00:10.838 And it is my pleasure to introduce our next

NOTE Confidence: 0.8393825125

00:00:10.838 --> 00:00:13.236 speaker who like all of our speakers today,

NOTE Confidence: 0.8393825125

00:00:13.240 --> 00:00:15.160 really doesn't need an introduction.

NOTE Confidence: 0.8393825125

00:00:15.160 --> 00:00:16.925 Dr. Krumholtz graduated from Yale

NOTE Confidence: 0.8393825125

00:00:16.925 --> 00:00:18.690 College and earned his medical

NOTE Confidence: 0.8393825125

00:00:18.748 --> 00:00:20.678 degree from Harvard Medical School.

NOTE Confidence: 0.8393825125

00:00:20.680 --> 00:00:22.265 He completed internship and residency

NOTE Confidence: 0.8393825125

00:00:22.265 --> 00:00:24.306 programs in medicine at the University

NOTE Confidence: 0.8393825125

00:00:24.306 --> 00:00:25.852 of California, San Francisco,

NOTE Confidence: 0.8393825125

00:00:25.852 --> 00:00:28.048 and did a fellowship in cardiovascular

NOTE Confidence: 0.8393825125

00:00:28.048 --> 00:00:30.080 medicine at Beth Israel in Boston.

NOTE Confidence: 0.8393825125

00:00:30.080 --> 00:00:32.607 And he earned a master's degree at

NOTE Confidence: 0.8393825125

00:00:32.607 --> 00:00:35.364 Harvard School of Public Health in 1995.

NOTE Confidence: 0.8393825125

00:00:35.364 --> 00:00:39.236 In 1995, in his third year at year,

NOTE Confidence: 0.8393825125

00:00:39.240 --> 00:00:41.640 he founded the Center for

NOTE Confidence: 0.8393825125

00:00:41.640 --> 00:00:43.560 Outcomes Research and Evaluation,

NOTE Confidence: 0.8393825125

00:00:43.560 --> 00:00:46.850 and in 2005, he was named the

NOTE Confidence: 0.8393825125

00:00:46.850 --> 00:00:49.320 Harold Hines Junior Professor.

NOTE Confidence: 0.8393825125

00:00:49.320 --> 00:00:52.036 Yeah, I have to follow the script.

NOTE Confidence: 0.8393825125

00:00:52.040 --> 00:00:53.200 OK Was that my

NOTE Confidence: 0.752049021428571

00:00:53.240 --> 00:00:53.804 phone or yours?

NOTE Confidence: 0.752049021428571

00:00:53.804 --> 00:00:54.556 Well, that's your phone.

NOTE Confidence: 0.752049021428571

00:00:54.560 --> 00:00:56.640 OK, good. Cool. Great job.

NOTE Confidence: 0.752049021428571

00:00:56.640 --> 00:00:57.558 Wow, what a pleasure to be

NOTE Confidence: 0.752049021428571

00:00:57.558 --> 00:00:58.520 able to speak with you guys.

NOTE Confidence: 0.752049021428571

00:00:58.520 --> 00:01:00.200 And what an amazing Dean's workshop.

NOTE Confidence: 0.752049021428571

00:01:00.200 --> 00:01:01.898 Thank you to Dean Brown for

NOTE Confidence: 0.752049021428571

00:01:01.898 --> 00:01:03.639 setting this up and for Anya,

NOTE Confidence: 0.752049021428571

00:01:03.640 --> 00:01:05.536 one of my heroes and is doing such

NOTE Confidence: 0.752049021428571

00:01:05.536 --> 00:01:07.200 a great job in the era of OBESI.

NOTE Confidence: 0.752049021428571

00:01:07.200 --> 00:01:09.088 I think the leading,

NOTE Confidence: 0.752049021428571

00:01:09.088 --> 00:01:10.724 the internationally leading

NOTE Confidence: 0.752049021428571

00:01:10.724 --> 00:01:13.634 figure in obesity medicine today,

NOTE Confidence: 0.752049021428571

00:01:13.640 --> 00:01:16.080 both because of the quality of her science,

NOTE Confidence: 0.752049021428571

00:01:16.080 --> 00:01:17.800 the strength of her voice,

NOTE Confidence: 0.752049021428571

00:01:17.800 --> 00:01:18.955 and her ability to inspire

NOTE Confidence: 0.752049021428571

00:01:18.955 --> 00:01:19.879 all those around her.

NOTE Confidence: 0.752049021428571

00:01:19.880 --> 00:01:21.320 But she really is worth.

NOTE Confidence: 0.97079375

00:01:25.560 --> 00:01:29.520 We are fortunate to have her here. So my

NOTE Confidence: 0.662428665

00:01:32.840 --> 00:01:35.120 OK disclosures.

NOTE Confidence: 0.908061201

00:01:37.280 --> 00:01:39.704 So there's AI would say fledgling

NOTE Confidence: 0.908061201

00:01:39.704 --> 00:01:41.320 team of outcomes researchers.

NOTE Confidence: 0.908061201

00:01:41.320 --> 00:01:43.480 And I'm going to recruit you all to join us,

NOTE Confidence: 0.908061201

00:01:43.480 --> 00:01:45.846 but at the center to really support

NOTE Confidence: 0.908061201

00:01:45.846 --> 00:01:48.499 Anya's vision about how we're at a central

NOTE Confidence: 0.908061201

00:01:48.499 --> 00:01:50.808 juncture in the treatment of obesity in

NOTE Confidence: 0.908061201

00:01:50.808 --> 00:01:53.174 this country and around the world with

NOTE Confidence: 0.908061201

00:01:53.174 --> 00:01:56.397 tools that are emerging at a dizzying pace,

NOTE Confidence: 0.908061201

00:01:56.400 --> 00:01:59.424 putting us in a position to do things that

NOTE Confidence: 0.908061201

00:01:59.424 --> 00:02:02.197 were unimaginable even five years ago.

NOTE Confidence: 0.908061201

00:02:02.200 --> 00:02:04.524 So the question will be will the

NOTE Confidence: 0.908061201

00:02:04.524 --> 00:02:06.127 evidence generation keep pace with

NOTE Confidence: 0.908061201

00:02:06.127 --> 00:02:08.311 our needs to help this in this trans,

NOTE Confidence: 0.908061201

00:02:08.320 --> 00:02:09.900 the transformation.

NOTE Confidence: 0.908061201

00:02:09.900 --> 00:02:11.954 And again, you know, Anya,

NOTE Confidence: 0.908061201

00:02:11.954 --> 00:02:13.280 I think is at the center of this,

NOTE Confidence: 0.908061201

00:02:13.280 --> 00:02:15.392 but Rohan, Keira, you and Lou, Erica,

NOTE Confidence: 0.908061201

00:02:15.392 --> 00:02:17.638 Spatz and many others, Mona Sharifi,

NOTE Confidence: 0.908061201

00:02:17.638 --> 00:02:19.710 others I should have put on this slide

NOTE Confidence: 0.908061201

00:02:19.763 --> 00:02:21.676 who are doing important work in this

NOTE Confidence: 0.908061201

00:02:21.676 --> 00:02:23.740 area and I think we're gonna grow is

NOTE Confidence: 0.908061201

00:02:23.803 --> 00:02:25.795 a facet of what Y weight is about,

NOTE Confidence: 0.908061201

00:02:25.800 --> 00:02:27.560 a facet of this work.

NOTE Confidence: 0.908061201

00:02:27.560 --> 00:02:29.480 So what is outcomes research?

NOTE Confidence: 0.908061201

00:02:29.480 --> 00:02:30.839 Many of you may not be familiar with this.

NOTE Confidence: 0.908061201

00:02:30.840 --> 00:02:32.952 I think it's a more of a basic

NOTE Confidence: 0.908061201

00:02:32.952 --> 00:02:33.480 science orientation.

NOTE Confidence: 0.908061201

00:02:33.480 --> 00:02:35.100 So it's really science that

NOTE Confidence: 0.908061201

00:02:35.100 --> 00:02:36.720 concerns itself with the result.

NOTE Confidence: 0.908061201

00:02:36.720 --> 00:02:38.036 We sort of say the end result,

NOTE Confidence: 0.908061201

00:02:38.040 --> 00:02:39.155 what are we really achieving

NOTE Confidence: 0.908061201

00:02:39.155 --> 00:02:40.520 at the end of the day?

NOTE Confidence: 0.908061201

00:02:40.520 --> 00:02:43.397 How do we tangibly affect people's lives?

NOTE Confidence: 0.908061201

00:02:43.400 --> 00:02:45.320 What can we do to improve their outcomes?

NOTE Confidence: 0.908061201

00:02:45.320 --> 00:02:46.770 Not just about declaring victory

NOTE Confidence: 0.908061201

00:02:46.770 --> 00:02:48.814 because we've had a paper or there's

NOTE Confidence: 0.908061201

00:02:48.814 --> 00:02:50.718 a breakthrough or there's a new study,

NOTE Confidence: 0.908061201

00:02:50.720 --> 00:02:51.434 but at the end of the day,

NOTE Confidence: 0.908061201

00:02:51.440 --> 00:02:53.000 have we really affected population?

NOTE Confidence: 0.908061201

00:02:53.000 --> 00:02:55.478 Not that we affected individuals health.

NOTE Confidence: 0.908061201

00:02:55.480 --> 00:02:57.118 So what should we do exactly?

NOTE Confidence: 0.908061201

00:02:57.120 --> 00:02:59.080 And not only the what,

NOTE Confidence: 0.908061201

00:02:59.080 --> 00:03:01.096 but how should we do it in ways that

NOTE Confidence: 0.908061201

00:03:01.096 --> 00:03:02.996 we know we can actually ensure,

NOTE Confidence: 0.908061201

00:03:03.000 --> 00:03:05.292 ensure that this is being adopted

NOTE Confidence: 0.908061201

00:03:05.292 --> 00:03:06.820 broadly and appropriately monitoring

NOTE Confidence: 0.908061201

00:03:06.884 --> 00:03:08.859 that adoption and ensuring again

NOTE Confidence: 0.908061201

00:03:08.859 --> 00:03:10.439 that individuals are benefiting.

NOTE Confidence: 0.908061201

00:03:10.440 --> 00:03:12.113 And we'll we're focused on in this

NOTE Confidence: 0.908061201

00:03:12.113 --> 00:03:13.680 kind of research on effectiveness,

NOTE Confidence: 0.908061201

00:03:13.680 --> 00:03:16.880 efficiency, equity, patient centeredness,

NOTE Confidence: 0.908061201

00:03:16.880 --> 00:03:19.280 safety and timeliness.

NOTE Confidence: 0.908061201

00:03:19.280 --> 00:03:21.356 So you know, what's the moment?

NOTE Confidence: 0.908061201

00:03:21.360 --> 00:03:23.500 Obesity is endemic and it's

NOTE Confidence: 0.908061201

00:03:23.500 --> 00:03:25.640 causing much suffering and cost.

NOTE Confidence: 0.908061201

00:03:25.640 --> 00:03:26.280 And and by the way,

NOTE Confidence: 0.908061201

00:03:26.280 --> 00:03:28.476 because suffering and cost means there's

NOTE Confidence: 0.908061201

00:03:28.476 --> 00:03:30.730 the prospect that actually treating it

NOTE Confidence: 0.908061201

00:03:30.730 --> 00:03:32.926 will lead to economic incentives and

NOTE Confidence: 0.908061201

00:03:32.926 --> 00:03:34.748 motivations 'cause sometimes we have

NOTE Confidence: 0.908061201

00:03:34.748 --> 00:03:37.156 innovations that can be beneficial to people,

NOTE Confidence: 0.908061201

00:03:37.160 --> 00:03:39.862 but there's not an an economic reason

NOTE Confidence: 0.908061201

00:03:39.862 --> 00:03:42.398 for the healthcare system to reorient.

NOTE Confidence: 0.908061201

00:03:42.400 --> 00:03:43.920 But as we go to value based cares,

NOTE Confidence: 0.908061201

00:03:43.920 --> 00:03:45.180 people have become increasingly

NOTE Confidence: 0.908061201

00:03:45.180 --> 00:03:46.440 interested in population health.

NOTE Confidence: 0.908061201

00:03:46.440 --> 00:03:48.400 There's a strong motivation here.

NOTE Confidence: 0.908061201

00:03:48.400 --> 00:03:50.596 And let me just say clearly and of course,

NOTE Confidence: 0.908061201

00:03:50.600 --> 00:03:53.640 Anya is a great influence of for me on this,

NOTE Confidence: 0.908061201

00:03:53.640 --> 00:03:54.872 but really obesity treatment's

NOTE Confidence: 0.908061201

00:03:54.872 --> 00:03:55.796 not about appearance,

NOTE Confidence: 0.908061201

00:03:55.800 --> 00:03:57.128 but it's about health.

NOTE Confidence: 0.908061201

00:03:57.128 --> 00:03:59.607 And I think it's the idea that

NOTE Confidence: 0.908061201

00:03:59.607 --> 00:04:01.682 we've got these medications to

NOTE Confidence: 0.908061201

00:04:01.682 --> 00:04:03.760 treat obesity and reduce risk.

NOTE Confidence: 0.908061201

00:04:03.760 --> 00:04:06.760 I sort of think about the weight loss

NOTE Confidence: 0.908061201

00:04:06.760 --> 00:04:08.279 tongue in cheek as a side effect.

NOTE Confidence: 0.908061201

00:04:08.280 --> 00:04:08.502 Actually,

NOTE Confidence: 0.908061201

00:04:08.502 --> 00:04:09.834 it's a really good side effect

NOTE Confidence: 0.908061201

00:04:09.834 --> 00:04:11.278 because it helps us with compliance.

NOTE Confidence: 0.908061201

00:04:11.280 --> 00:04:13.200 People actually like this side effect.

NOTE Confidence: 0.908061201

00:04:13.200 --> 00:04:14.250 So they're going to continue

NOTE Confidence: 0.908061201

00:04:14.250 --> 00:04:14.880 with the medication.

NOTE Confidence: 0.908061201

00:04:14.880 --> 00:04:15.933 But as physicians,

NOTE Confidence: 0.908061201

00:04:15.933 --> 00:04:18.390 our central drive is to improve health

NOTE Confidence: 0.907002168461538

00:04:18.454 --> 00:04:20.193 and reduce risk, advance global health.

NOTE Confidence: 0.907002168461538

00:04:20.193 --> 00:04:21.950 And I think This is why we're

NOTE Confidence: 0.907002168461538

00:04:22.000 --> 00:04:23.400 going to be able to see that.

NOTE Confidence: 0.907002168461538

00:04:23.400 --> 00:04:25.880 That's why I think it's a historic juncture.

NOTE Confidence: 0.907002168461538

00:04:25.880 --> 00:04:27.440 So you may have seen this,

NOTE Confidence: 0.907002168461538

00:04:27.440 --> 00:04:28.960 this graphic and others.

NOTE Confidence: 0.907002168461538

00:04:28.960 --> 00:04:32.210 This week Lancet came out with a sort

NOTE Confidence: 0.907002168461538

00:04:32.210 --> 00:04:34.455 of landmark non communicable disease

NOTE Confidence: 0.907002168461538

00:04:34.455 --> 00:04:37.119 groups publication on obesity worldwide.

NOTE Confidence: 0.907002168461538

00:04:37.120 --> 00:04:38.800 This is kind of a cool figure.

NOTE Confidence: 0.907002168461538

00:04:38.800 --> 00:04:39.759 I just like the way it looks.

NOTE Confidence: 0.907002168461538

00:04:39.760 --> 00:04:40.918 I don't know what it means,

NOTE Confidence: 0.907002168461538

00:04:40.920 --> 00:04:43.024 but I'm just joking.

NOTE Confidence: 0.907002168461538

00:04:43.024 --> 00:04:46.630 But the it's 1990 on the left

NOTE Confidence: 0.907002168461538

00:04:46.630 --> 00:04:49.670 side in in 2022 on the right side

NOTE Confidence: 0.907002168461538

00:04:49.670 --> 00:04:51.640 for every country in the world.

NOTE Confidence: 0.907002168461538

00:04:51.640 --> 00:04:52.760 And if you look at the red,

NOTE Confidence: 0.907002168461538

00:04:52.760 --> 00:04:54.590 you know there's some percentages

NOTE Confidence: 0.907002168461538

00:04:54.590 --> 00:04:56.168 of people with obesity and

NOTE Confidence: 0.907002168461538

00:04:56.168 --> 00:04:57.678 you can see what's happening.

NOTE Confidence: 0.907002168461538

00:04:57.680 --> 00:04:59.264 I could have shown you figures

NOTE Confidence: 0.907002168461538

00:04:59.264 --> 00:05:00.320 from throughout this article.

NOTE Confidence: 0.907002168461538

00:05:00.320 --> 00:05:02.021 It shows what you already know that

NOTE Confidence: 0.907002168461538

00:05:02.021 --> 00:05:03.917 there's been a great degree of growth.

NOTE Confidence: 0.907002168461538

00:05:03.920 --> 00:05:04.410 You know,

NOTE Confidence: 0.907002168461538

00:05:04.410 --> 00:05:06.125 so we we're making such progress in

NOTE Confidence: 0.907002168461538

00:05:06.125 --> 00:05:07.239 cardiovascular disease for decades.

NOTE Confidence: 0.907002168461538

00:05:07.240 --> 00:05:07.824 It's slowed.

NOTE Confidence: 0.907002168461538

00:05:07.824 --> 00:05:08.408 In 2022,

NOTE Confidence: 0.907002168461538

00:05:08.408 --> 00:05:10.623 CDC reported that we actually had an

NOTE Confidence: 0.907002168461538

00:05:10.623 --> 00:05:12.239 uptick in cardiovascular mortality.

NOTE Confidence: 0.907002168461538

00:05:12.240 --> 00:05:14.718 I attributed it to this decade long,

NOTE Confidence: 0.907002168461538

00:05:14.720 --> 00:05:16.840 decades long increase in obesity

NOTE Confidence: 0.907002168461538

00:05:16.840 --> 00:05:18.960 that's coming to roost now.

NOTE Confidence: 0.907002168461538

00:05:18.960 --> 00:05:20.544 And we were really only treating

NOTE Confidence: 0.907002168461538

00:05:20.544 --> 00:05:21.600 sort of the manifestations,

NOTE Confidence: 0.907002168461538

00:05:21.600 --> 00:05:22.652 lipids and blood pressure,

NOTE Confidence: 0.907002168461538

00:05:22.652 --> 00:05:24.230 but not getting to the root

NOTE Confidence: 0.907002168461538

00:05:24.279 --> 00:05:25.399 cause that many people,

NOTE Confidence: 0.907002168461538

00:05:25.400 --> 00:05:27.240 which was the obesity itself.

NOTE Confidence: 0.907002168461538

00:05:27.240 --> 00:05:28.872 This is what's changing.

NOTE Confidence: 0.907002168461538

00:05:28.872 --> 00:05:30.912 This is again showing 1990

NOTE Confidence: 0.907002168461538

00:05:30.912 --> 00:05:32.280 to 2022 across the world.

NOTE Confidence: 0.907002168461538

00:05:32.280 --> 00:05:33.480 It doesn't show any surprise.

NOTE Confidence: 0.907002168461538

00:05:33.480 --> 00:05:35.154 I'm just doing it to emphasize

NOTE Confidence: 0.907002168461538

00:05:35.154 --> 00:05:37.200 that this is a pressing need.

NOTE Confidence: 0.907002168461538

00:05:37.200 --> 00:05:39.800 There's an urgent issue that's

NOTE Confidence: 0.907002168461538

00:05:39.800 --> 00:05:41.051 affecting population health

NOTE Confidence: 0.907002168461538

00:05:41.051 --> 00:05:43.136 throughout the world and now

NOTE Confidence: 0.907002168461538

00:05:43.136 --> 00:05:45.480 we have ability to treat this.

NOTE Confidence: 0.907002168461538

00:05:45.480 --> 00:05:47.496 So you know my my view is that

NOTE Confidence: 0.907002168461538

00:05:47.496 --> 00:05:49.039 again to reinforce this,

NOTE Confidence: 0.907002168461538

00:05:49.040 --> 00:05:50.852 we've been treating manifestations

NOTE Confidence: 0.907002168461538

00:05:50.852 --> 00:05:53.068 of obesity as population health has

NOTE Confidence: 0.907002168461538

00:05:53.068 --> 00:05:54.703 steadily declined but after after

NOTE Confidence: 0.907002168461538

00:05:54.703 --> 00:05:56.599 this period of marked improvement.

NOTE Confidence: 0.907002168461538

00:05:56.600 --> 00:05:58.560 But we failed on the root cause and

NOTE Confidence: 0.907002168461538

00:05:58.560 --> 00:06:00.992 most of our armmentarium up until now

NOTE Confidence: 0.907002168461538

00:06:00.992 --> 00:06:02.872 has lacked safety and effectiveness.

NOTE Confidence: 0.907002168461538

00:06:02.880 --> 00:06:04.752 We now strategies that address obesity

NOTE Confidence: 0.907002168461538

00:06:04.752 --> 00:06:06.720 and can improve health and like I said,

NOTE Confidence: 0.907002168461538

00:06:06.720 --> 00:06:07.440 I consider weight loss.

NOTE Confidence: 0.907002168461538

00:06:07.440 --> 00:06:09.900 But but what we have now

NOTE Confidence: 0.907002168461538

00:06:09.900 --> 00:06:11.494 is evidence and questions.

NOTE Confidence: 0.907002168461538

00:06:11.494 --> 00:06:12.268 I mean,

NOTE Confidence: 0.907002168461538

00:06:12.268 --> 00:06:14.203 as compelling evidence comes out

NOTE Confidence: 0.907002168461538

00:06:14.203 --> 00:06:16.280 from Phrase 3 clinical trials,

NOTE Confidence: 0.907002168461538

00:06:16.280 --> 00:06:18.352 it really starts to open up a

NOTE Confidence: 0.907002168461538

00:06:18.352 --> 00:06:20.588 wider range of questions that are

NOTE Confidence: 0.907002168461538

00:06:20.588 --> 00:06:22.592 needed if we're to understand how

NOTE Confidence: 0.907002168461538

00:06:22.592 --> 00:06:24.881 to optimize the use of these new

NOTE Confidence: 0.907002168461538

00:06:24.881 --> 00:06:26.883 medications And if we're able to

NOTE Confidence: 0.907002168461538

00:06:26.883 --> 00:06:28.443 ensure the proper implementation

NOTE Confidence: 0.907002168461538

00:06:28.443 --> 00:06:30.393 and application of this new

NOTE Confidence: 0.907002168461538

00:06:30.400 --> 00:06:33.022 knowledge in ways that will tangibly

NOTE Confidence: 0.907002168461538

00:06:33.022 --> 00:06:35.360 show by improvements in health.

NOTE Confidence: 0.907002168461538

00:06:35.360 --> 00:06:35.636 And.

NOTE Confidence: 0.907002168461538

00:06:35.636 --> 00:06:37.568 And so our strategies on the outcomes

NOTE Confidence: 0.907002168461538

00:06:37.568 --> 00:06:39.600 research side is to answer these questions.

NOTE Confidence: 0.907002168461538

00:06:39.600 --> 00:06:41.142 And what we're trying to do

NOTE Confidence: 0.907002168461538

00:06:41.142 --> 00:06:42.759 is to assemble a range of,

NOTE Confidence: 0.907002168461538

00:06:42.760 --> 00:06:44.434 you know if they're people here from the lab,

NOTE Confidence: 0.907002168461538

00:06:44.440 --> 00:06:46.000 I'll say these are our reagents,

NOTE Confidence: 0.907002168461538

00:06:46.000 --> 00:06:47.956 our data reagents in order to

NOTE Confidence: 0.907002168461538

00:06:47.956 --> 00:06:50.138 do data experiments in order to

NOTE Confidence: 0.907002168461538

00:06:50.138 --> 00:06:52.173 generate knowledge that will fuel

NOTE Confidence: 0.907002168461538

00:06:52.173 --> 00:06:54.403 the proper application of of these

NOTE Confidence: 0.907002168461538

00:06:54.403 --> 00:06:56.281 new strategies that are going to

NOTE Confidence: 0.907002168461538

00:06:56.281 --> 00:06:58.556 again come out at a dizzying pace.

NOTE Confidence: 0.907002168461538

00:06:58.560 --> 00:07:00.800 It's not just the two meds that we have now,

NOTE Confidence: 0.780088411428571

00:07:00.800 --> 00:07:02.832 it's going to, they're going to be 10s,

NOTE Confidence: 0.780088411428571

00:07:02.832 --> 00:07:04.704 twenty different kinds of medications and

NOTE Confidence: 0.780088411428571

00:07:04.704 --> 00:07:07.252 choices and we're going to have to parse this

NOTE Confidence: 0.780088411428571

00:07:07.252 --> 00:07:09.118 or make challenges around access and cost.

NOTE Confidence: 0.780088411428571

00:07:09.120 --> 00:07:10.828 They're going to be a question of

NOTE Confidence: 0.780088411428571

00:07:10.828 --> 00:07:12.668 who's this best in, and it's going to

NOTE Confidence: 0.780088411428571

00:07:12.668 --> 00:07:14.685 be a question of how to optimize it

NOTE Confidence: 0.780088411428571

00:07:14.685 --> 00:07:16.757 for anyone for whom it is effective.

NOTE Confidence: 0.780088411428571

00:07:16.760 --> 00:07:18.958 And so we'll use federal databases and

NOTE Confidence: 0.780088411428571

00:07:18.958 --> 00:07:20.519 public registries like UK Biobank,

NOTE Confidence: 0.780088411428571

00:07:20.520 --> 00:07:22.899 clinical trial databases,

NOTE Confidence: 0.780088411428571

00:07:22.899 --> 00:07:25.278 international data repositories

NOTE Confidence: 0.780088411428571

00:07:25.280 --> 00:07:27.632 like the Odyssey trials,

NOTE Confidence: 0.780088411428571

00:07:27.632 --> 00:07:29.396 prospective decentralized registries,

NOTE Confidence: 0.780088411428571

00:07:29.400 --> 00:07:31.630 regulatory science analysis and preview

NOTE Confidence: 0.780088411428571

00:07:31.630 --> 00:07:32.756 simulation, decentralized trials.

NOTE Confidence: 0.780088411428571

00:07:32.756 --> 00:07:34.446 The thing about outcomes research

NOTE Confidence: 0.780088411428571

00:07:34.446 --> 00:07:36.812 is we have a broad toolkit because

NOTE Confidence: 0.780088411428571

00:07:36.812 --> 00:07:38.432 we're motivated by the questions,

NOTE Confidence: 0.780088411428571

00:07:38.440 --> 00:07:40.138 not by having a singular approach

NOTE Confidence: 0.780088411428571

00:07:40.138 --> 00:07:42.039 with regard to how we answer it,

NOTE Confidence: 0.780088411428571

00:07:42.040 --> 00:07:44.080 not by having a singular assay

NOTE Confidence: 0.780088411428571

00:07:44.080 --> 00:07:45.440 or type of analysis,

NOTE Confidence: 0.780088411428571

00:07:45.440 --> 00:07:46.766 but by being able to approach

NOTE Confidence: 0.780088411428571

00:07:46.766 --> 00:07:47.920 us in many different ways.

NOTE Confidence: 0.780088411428571

00:07:47.920 --> 00:07:49.012 And I want to say we've been

NOTE Confidence: 0.780088411428571

00:07:49.012 --> 00:07:49.839 at this for a while.

NOTE Confidence: 0.780088411428571

00:07:49.840 --> 00:07:51.440 Rohan had this you know,

NOTE Confidence: 0.780088411428571

00:07:51.440 --> 00:07:52.445 piece in JAMA.

NOTE Confidence: 0.780088411428571

00:07:52.445 --> 00:07:54.120 You'll see that this we're,

NOTE Confidence: 0.780088411428571

00:07:54.120 --> 00:07:56.488 this group is not new to the issue

NOTE Confidence: 0.780088411428571

00:07:56.488 --> 00:07:57.080 of obesity.

NOTE Confidence: 0.780088411428571

00:07:57.080 --> 00:07:59.397 This paper actually we're writing a long

NOTE Confidence: 0.780088411428571

00:07:59.397 --> 00:08:01.839 time ago but after low carbohydrate

NOTE Confidence: 0.780088411428571

00:08:01.840 --> 00:08:04.222 diets and the obesity paradox was

NOTE Confidence: 0.780088411428571

00:08:04.222 --> 00:08:06.322 something we published in Heart

NOTE Confidence: 0.780088411428571

00:08:06.322 --> 00:08:08.440 Failure a decade and a half ago.

NOTE Confidence: 0.780088411428571

00:08:08.440 --> 00:08:10.792 Body mass index and mortality and

NOTE Confidence: 0.780088411428571

00:08:10.792 --> 00:08:12.360 acute micro infarction patients.

NOTE Confidence: 0.780088411428571

00:08:12.360 --> 00:08:14.028 I do self and parent reported

NOTE Confidence: 0.780088411428571

00:08:14.028 --> 00:08:15.140 dietary physical activity and

NOTE Confidence: 0.780088411428571

00:08:15.187 --> 00:08:16.747 sedentary behaviors predict worsening

NOTE Confidence: 0.780088411428571

00:08:16.747 --> 00:08:17.917 obesity in children.

NOTE Confidence: 0.780088411428571

00:08:17.920 --> 00:08:19.528 This was a PhD thesis from

NOTE Confidence: 0.780088411428571

00:08:19.528 --> 00:08:20.600 someone in investigative medicine,

NOTE Confidence: 0.780088411428571

00:08:20.600 --> 00:08:21.142 Karen Dorsey,

NOTE Confidence: 0.780088411428571

00:08:21.142 --> 00:08:23.039 who has focused her thesis on this

NOTE Confidence: 0.780088411428571

00:08:23.039 --> 00:08:24.551 and applying practice recommendations

NOTE Confidence: 0.780088411428571

00:08:24.551 --> 00:08:26.531 for prevention and treatment of

NOTE Confidence: 0.780088411428571

00:08:26.531 --> 00:08:28.679 obesity in children and adolescents.

NOTE Confidence: 0.780088411428571

00:08:28.680 --> 00:08:30.060 Obesity prevalence and risk.

NOTE Confidence: 0.780088411428571

00:08:30.060 --> 00:08:31.440 We did this internationally.

NOTE Confidence: 0.780088411428571

00:08:31.440 --> 00:08:33.897 We looked in China in a million

NOTE Confidence: 0.780088411428571

00:08:33.897 --> 00:08:35.759 persons project that we designed

NOTE Confidence: 0.780088411428571

00:08:35.760 --> 00:08:37.740 in order to understand risk within

NOTE Confidence: 0.780088411428571

00:08:37.740 --> 00:08:39.729 large scale populations in China and

NOTE Confidence: 0.780088411428571

00:08:39.729 --> 00:08:41.547 we published this in German network

NOTE Confidence: 0.780088411428571

00:08:41.547 --> 00:08:43.470 open about body mass index with

NOTE Confidence: 0.780088411428571

00:08:43.470 --> 00:08:45.734 blood pressure in 1.7 million Chinese adults.

NOTE Confidence: 0.780088411428571

00:08:45.734 --> 00:08:48.352 We we were looking at the issues

NOTE Confidence: 0.780088411428571

00:08:48.352 --> 00:08:50.365 around disparities and barriers to

NOTE Confidence: 0.780088411428571

00:08:50.365 --> 00:08:52.759 access looking at racial and ethnic

NOTE Confidence: 0.780088411428571

00:08:52.759 --> 00:08:54.777 disparities and and and financial

NOTE Confidence: 0.780088411428571

00:08:54.777 --> 00:08:56.712 barriers and overweight and obese

NOTE Confidence: 0.780088411428571

00:08:56.720 --> 00:08:58.615 adults eligible for Smeglitide in

NOTE Confidence: 0.780088411428571

00:08:58.615 --> 00:09:01.633 the US by you and Lou And another

NOTE Confidence: 0.780088411428571

00:09:01.633 --> 00:09:03.715 one that you and did with,

NOTE Confidence: 0.780088411428571

00:09:03.720 --> 00:09:05.631 we did with Anya looking at what

NOTE Confidence: 0.780088411428571

00:09:05.631 --> 00:09:07.338 were the implications for the select

NOTE Confidence: 0.780088411428571

00:09:07.338 --> 00:09:09.006 trial with regard to the population

NOTE Confidence: 0.780088411428571

00:09:09.006 --> 00:09:10.816 that might be eligible for it.

NOTE Confidence: 0.780088411428571

00:09:10.816 --> 00:09:11.432 So I'm,

NOTE Confidence: 0.780088411428571

00:09:11.432 --> 00:09:13.280 I'm only just saying this because

NOTE Confidence: 0.780088411428571

00:09:13.280 --> 00:09:15.037 we've been at this for a while,

NOTE Confidence: 0.780088411428571

00:09:15.040 --> 00:09:16.198 but now we've got a center,

NOTE Confidence: 0.780088411428571

00:09:16.200 --> 00:09:17.904 now we've got the world's leading

NOTE Confidence: 0.780088411428571

00:09:17.904 --> 00:09:19.040 expert in obesity medicine.

NOTE Confidence: 0.780088411428571

00:09:19.040 --> 00:09:21.133 I think we're poised to kind of

NOTE Confidence: 0.780088411428571

00:09:21.133 --> 00:09:22.825 organize these efforts that have

NOTE Confidence: 0.780088411428571

00:09:22.825 --> 00:09:25.021 been a little disparate and not

NOTE Confidence: 0.780088411428571

00:09:25.021 --> 00:09:26.527 necessarily concentrated in a way

NOTE Confidence: 0.780088411428571

00:09:26.527 --> 00:09:28.410 that really positions Yale as a as a

NOTE Confidence: 0.780088411428571

00:09:28.410 --> 00:09:30.090 real leader and as a pillar of what

NOTE Confidence: 0.780088411428571

00:09:30.090 --> 00:09:31.760 this center is going to be about.

NOTE Confidence: 0.780088411428571

00:09:31.760 --> 00:09:33.260 Obviously there's other science

NOTE Confidence: 0.780088411428571

00:09:33.260 --> 00:09:34.760 you've been discussing today.

NOTE Confidence: 0.780088411428571

00:09:34.760 --> 00:09:36.320 There's a wide range of great

NOTE Confidence: 0.780088411428571

00:09:36.320 --> 00:09:37.960 science at Yale in this area.

NOTE Confidence: 0.780088411428571

00:09:37.960 --> 00:09:39.850 We want outcomes research to have

NOTE Confidence: 0.780088411428571

00:09:39.850 --> 00:09:41.418 a a big according to that.

NOTE Confidence: 0.780088411428571

00:09:41.418 --> 00:09:42.860 And I just said what we don't

NOTE Confidence: 0.831094609411765

00:09:42.907 --> 00:09:44.047 know is enormous and I was

NOTE Confidence: 0.831094609411765

00:09:44.047 --> 00:09:45.264 just just throwing these downs.

NOTE Confidence: 0.831094609411765

00:09:45.264 --> 00:09:47.400 How do we optimize the safety and effects,

NOTE Confidence: 0.831094609411765

00:09:47.400 --> 00:09:49.360 not just writing the prescription.

NOTE Confidence: 0.831094609411765

00:09:49.360 --> 00:09:50.944 What's different to the people who

NOTE Confidence: 0.831094609411765

00:09:50.944 --> 00:09:52.401 have success with the prescription

NOTE Confidence: 0.831094609411765

00:09:52.401 --> 00:09:53.797 versus people who don't?

NOTE Confidence: 0.831094609411765

00:09:53.800 --> 00:09:54.710 How can we understand the

NOTE Confidence: 0.831094609411765

00:09:54.710 --> 00:09:55.438 context of the lives?

NOTE Confidence: 0.831094609411765

00:09:55.440 --> 00:09:57.197 What should we be telling them behaviorally?

NOTE Confidence: 0.831094609411765

00:09:57.200 --> 00:09:58.880 How do we set them up for success?

NOTE Confidence: 0.831094609411765

00:09:58.880 --> 00:10:00.060 What does it mean between

NOTE Confidence: 0.831094609411765

00:10:00.060 --> 00:10:01.240 those who succeed in failure?

NOTE Confidence: 0.831094609411765

00:10:01.240 --> 00:10:03.680 What are the range and magnitude of benefits?

NOTE Confidence: 0.831094609411765

00:10:03.680 --> 00:10:05.264 Who benefits and why?

NOTE Confidence: 0.831094609411765

00:10:05.264 --> 00:10:07.640 Who incurs safety issues and why?

NOTE Confidence: 0.831094609411765

00:10:07.640 --> 00:10:08.780 Who should we prioritize?

NOTE Confidence: 0.831094609411765

00:10:08.780 --> 00:10:09.920 You know these trials,

NOTE Confidence: 0.831094609411765

00:10:09.920 --> 00:10:11.768 they they haven't included a large

NOTE Confidence: 0.831094609411765

00:10:11.768 --> 00:10:13.000 number of minoritized populations,

NOTE Confidence: 0.831094609411765

00:10:13.000 --> 00:10:14.600 They haven't includes a large

NOTE Confidence: 0.831094609411765

00:10:14.600 --> 00:10:15.880 number of elderly populations.

NOTE Confidence: 0.831094609411765

00:10:15.880 --> 00:10:17.410 They haven't included a large

NOTE Confidence: 0.831094609411765

00:10:17.410 --> 00:10:18.634 number of younger populations.

NOTE Confidence: 0.831094609411765

00:10:18.640 --> 00:10:19.498 If people are going to be

NOTE Confidence: 0.831094609411765

00:10:19.498 --> 00:10:20.320 on this for 10 years,

NOTE Confidence: 0.831094609411765

00:10:20.320 --> 00:10:21.460 none of them have gone

NOTE Confidence: 0.831094609411765

00:10:21.460 --> 00:10:22.600 beyond three years so far.

NOTE Confidence: 0.831094609411765

00:10:22.600 --> 00:10:23.480 So what what happens?

NOTE Confidence: 0.831094609411765

00:10:23.480 --> 00:10:25.080 What happens when people stop and start,

NOTE Confidence: 0.831094609411765

00:10:25.080 --> 00:10:26.820 what happens when people

NOTE Confidence: 0.831094609411765

00:10:26.820 --> 00:10:28.560 switch types of medications.

NOTE Confidence: 0.831094609411765

00:10:28.560 --> 00:10:30.120 These are real world questions that

NOTE Confidence: 0.831094609411765

00:10:30.120 --> 00:10:31.380 clinicians and their patients are

NOTE Confidence: 0.831094609411765

00:10:31.380 --> 00:10:32.640 going to need to know if they're

NOTE Confidence: 0.831094609411765

00:10:32.640 --> 00:10:34.120 going to be making informed choices.

NOTE Confidence: 0.831094609411765

00:10:34.120 --> 00:10:36.038 In the end is a cost effective.

NOTE Confidence: 0.831094609411765

00:10:36.040 --> 00:10:36.880 Can we make the case?

NOTE Confidence: 0.831094609411765

00:10:36.880 --> 00:10:38.440 Because the benefit,

NOTE Confidence: 0.831094609411765

00:10:38.440 --> 00:10:38.960 interestingly,

NOTE Confidence: 0.831094609411765

00:10:38.960 --> 00:10:40.000 in select,

NOTE Confidence: 0.831094609411765

00:10:40.000 --> 00:10:42.996 when people were treated with some agglutide,

NOTE Confidence: 0.831094609411765

00:10:43.000 --> 00:10:44.895 the benefit accrued almost immediately

NOTE Confidence: 0.831094609411765

00:10:44.895 --> 00:10:47.477 before you could discern the weight loss

NOTE Confidence: 0.831094609411765

00:10:47.477 --> 00:10:49.675 so that the curves continue to depart.

NOTE Confidence: 0.831094609411765

00:10:49.680 --> 00:10:51.516 But that benefit was very early.

NOTE Confidence: 0.831094609411765

00:10:51.520 --> 00:10:53.599 Can that manifest as a cost saving?

NOTE Confidence: 0.831094609411765

00:10:53.600 --> 00:10:55.220 Even people talk about

NOTE Confidence: 0.831094609411765

00:10:55.220 --> 00:10:56.435 this bankrupting Medicare,

NOTE Confidence: 0.831094609411765

00:10:56.440 --> 00:10:59.120 bankrupting the health system,

NOTE Confidence: 0.831094609411765

00:10:59.120 --> 00:11:01.080 but maybe it'll actually turn that on

NOTE Confidence: 0.831094609411765

00:11:01.130 --> 00:11:03.076 its head because of its health effects,

NOTE Confidence: 0.831094609411765

00:11:03.080 --> 00:11:04.826 orthopaedic procedures, cancers,

NOTE Confidence: 0.831094609411765

00:11:04.826 --> 00:11:07.154 as well as cardiovascular.

NOTE Confidence: 0.831094609411765

00:11:07.160 --> 00:11:08.960 We need to look at all this stuff.

NOTE Confidence: 0.831094609411765

00:11:08.960 --> 00:11:10.608 So the question will be what are the

NOTE Confidence: 0.831094609411765

00:11:10.608 --> 00:11:12.038 real world implications for this?

NOTE Confidence: 0.831094609411765

00:11:12.040 --> 00:11:16.495 What what we've got trials,

NOTE Confidence: 0.831094609411765

00:11:16.495 --> 00:11:18.920 very carefully selected groups that

NOTE Confidence: 0.831094609411765

00:11:18.920 --> 00:11:22.084 got into well curated and overseen

NOTE Confidence: 0.831094609411765

00:11:22.084 --> 00:11:24.196 phase three clinical trials.

NOTE Confidence: 0.831094609411765

00:11:24.200 --> 00:11:25.800 What happens in the wild,

NOTE Confidence: 0.831094609411765

00:11:25.800 --> 00:11:26.955 what happens when we're really

NOTE Confidence: 0.831094609411765

00:11:26.955 --> 00:11:27.879 out in the world?

NOTE Confidence: 0.831094609411765

00:11:27.880 --> 00:11:30.323 Who gets access and how does this work now?

NOTE Confidence: 0.831094609411765

00:11:30.323 --> 00:11:32.024 I wanted to present just a little

NOTE Confidence: 0.831094609411765

00:11:32.024 --> 00:11:33.941 bit of information at what we've

NOTE Confidence: 0.831094609411765

00:11:33.941 --> 00:11:35.317 been working on recently,

NOTE Confidence: 0.831094609411765

00:11:35.320 --> 00:11:37.336 which is to try to see how can we

NOTE Confidence: 0.831094609411765

00:11:37.336 --> 00:11:38.931 get within healthcare systems and

NOTE Confidence: 0.831094609411765

00:11:38.931 --> 00:11:41.392 be able to get real time feedback

NOTE Confidence: 0.831094609411765

00:11:41.392 --> 00:11:43.572 on performance and the situation

NOTE Confidence: 0.831094609411765

00:11:43.572 --> 00:11:45.316 around something like obesity.

NOTE Confidence: 0.831094609411765

00:11:45.320 --> 00:11:48.398 Now we've been working with Centara,

NOTE Confidence: 0.831094609411765

00:11:48.400 --> 00:11:50.350 an $8 billion healthcare system with

NOTE Confidence: 0.831094609411765

00:11:50.350 --> 00:11:52.720 about 22 hospitals in Southern Virginia,

NOTE Confidence: 0.831094609411765

00:11:52.720 --> 00:11:53.488 Northern North Carolina.

NOTE Confidence: 0.831094609411765

00:11:53.488 --> 00:11:55.280 It turns out our relationship with Centara,

NOTE Confidence: 0.831094609411765

00:11:55.280 --> 00:11:57.352 we have greater access to to healthcare

NOTE Confidence: 0.831094609411765

00:11:57.352 --> 00:11:59.560 data than we do in the Yale system.

NOTE Confidence: 0.831094609411765

00:11:59.560 --> 00:12:02.038 We, we, we actually have to go.

NOTE Confidence: 0.831094609411765

00:12:02.040 --> 00:12:04.200 We have to.

NOTE Confidence: 0.831094609411765

00:12:04.200 --> 00:12:05.920 I'm just had a Crick in my neck

NOTE Confidence: 0.927160284

00:12:08.520 --> 00:12:09.960 but it it happens. We have to go

NOTE Confidence: 0.927160284

00:12:09.960 --> 00:12:11.160 elsewhere to be able to get this.

NOTE Confidence: 0.927160284

00:12:11.160 --> 00:12:13.692 We're working hard with Daniela and

NOTE Confidence: 0.927160284

00:12:13.692 --> 00:12:16.092 Lucilla and this will be solved here

NOTE Confidence: 0.927160284

00:12:16.092 --> 00:12:18.760 and we'll soon be in the same position.

NOTE Confidence: 0.927160284

00:12:18.760 --> 00:12:20.920 But but we've been able to work with Centaur.

NOTE Confidence: 0.927160284

00:12:20.920 --> 00:12:23.080 You know it turns out if you just depend

NOTE Confidence: 0.927160284

00:12:23.080 --> 00:12:25.383 on the problem list or the ICD codes or

NOTE Confidence: 0.927160284

00:12:25.383 --> 00:12:27.459 the sort of typical structured field

NOTE Confidence: 0.927160284

00:12:27.459 --> 00:12:29.916 within within the the the medical record,

NOTE Confidence: 0.927160284

00:12:29.920 --> 00:12:30.800 you can't quite get this.

NOTE Confidence: 0.927160284

00:12:30.800 --> 00:12:33.068 But we can triangulate on this and

NOTE Confidence: 0.927160284

00:12:33.068 --> 00:12:35.532 start to see you know for example

NOTE Confidence: 0.927160284

00:12:35.532 --> 00:12:38.480 this is just looking at you know both

NOTE Confidence: 0.927160284

00:12:38.480 --> 00:12:40.280 prescription counts for semaglutide here.

NOTE Confidence: 0.927160284

00:12:40.280 --> 00:12:42.996 We're looking at the prevalence in Centaur,

NOTE Confidence: 0.927160284

00:12:43.000 --> 00:12:45.316 41% prevalence of obesity and we're

NOTE Confidence: 0.927160284

00:12:45.316 --> 00:12:47.677 looking at the use of semaglutide

NOTE Confidence: 0.927160284

00:12:47.677 --> 00:12:49.517 look at this only 2%.

NOTE Confidence: 0.927160284

00:12:49.520 --> 00:12:51.550 You know people talk about this going

NOTE Confidence: 0.927160284

00:12:51.550 --> 00:12:53.125 wild actually number total prescriptions

NOTE Confidence: 0.927160284

00:12:53.125 --> 00:12:55.075 in the country still remain far,

NOTE Confidence: 0.927160284

00:12:55.080 --> 00:12:58.160 far lower in terms of single digit

NOTE Confidence: 0.927160284

00:12:58.160 --> 00:12:59.632 percentages like under 5% for

NOTE Confidence: 0.927160284

00:12:59.632 --> 00:13:01.180 compared to the number of people

NOTE Confidence: 0.927160284

00:13:01.234 --> 00:13:02.679 who could benefit from this.

NOTE Confidence: 0.927160284

00:13:02.680 --> 00:13:04.318 So but we're able to show this,

NOTE Confidence: 0.927160284

00:13:04.320 --> 00:13:04.936 we can identify them.

NOTE Confidence: 0.927160284

00:13:04.936 --> 00:13:06.636 By the way, if this is for trial recruitment,

NOTE Confidence: 0.927160284

00:13:06.640 --> 00:13:07.944 immediately we find people,

NOTE Confidence: 0.927160284

00:13:07.944 --> 00:13:09.900 we're developing the tools so that

NOTE Confidence: 0.927160284

00:13:09.953 --> 00:13:12.057 we can use the raw data within the

NOTE Confidence: 0.927160284

00:13:12.057 --> 00:13:13.528 electronic medical record to move

NOTE Confidence: 0.927160284

00:13:13.528 --> 00:13:15.662 quickly and we can also follow people

NOTE Confidence: 0.927160284

00:13:15.662 --> 00:13:17.758 over time to say this is what they

NOTE Confidence: 0.927160284

00:13:17.758 --> 00:13:20.640 were like in in in two periods before.

NOTE Confidence: 0.927160284

00:13:20.640 --> 00:13:22.008 This is by the way you and Lou

NOTE Confidence: 0.927160284

00:13:22.008 --> 00:13:23.160 and the group at Centaur,

NOTE Confidence: 0.927160284

00:13:23.160 --> 00:13:25.720 I really want to shout out you and

NOTE Confidence: 0.927160284

00:13:25.720 --> 00:13:27.237 that you know can say that in in

NOTE Confidence: 0.927160284

00:13:27.237 --> 00:13:28.638 sort of the control period before

NOTE Confidence: 0.927160284

00:13:28.638 --> 00:13:30.038 they start on some gluttitis,

NOTE Confidence: 0.927160284

00:13:30.040 --> 00:13:32.028 the -3 negative two period zero and

NOTE Confidence: 0.927160284

00:13:32.028 --> 00:13:34.058 now you can see they're starting

NOTE Confidence: 0.927160284

00:13:34.058 --> 00:13:36.278 on it and what's their trajectory.

NOTE Confidence: 0.927160284

00:13:36.280 --> 00:13:37.936 So in the real world what are we

NOTE Confidence: 0.927160284

00:13:37.936 --> 00:13:39.159 observing and who's benefiting,

NOTE Confidence: 0.927160284

00:13:39.160 --> 00:13:40.318 who's not, who stays on it,

NOTE Confidence: 0.927160284

00:13:40.320 --> 00:13:42.462 who doesn't and what kind of health

NOTE Confidence: 0.927160284

00:13:42.462 --> 00:13:43.680 reduction do you see?

NOTE Confidence: 0.927160284

00:13:43.680 --> 00:13:45.912 Does it replicate what we see in the trials?

NOTE Confidence: 0.927160284

00:13:45.920 --> 00:13:47.544 She was showing this in even larger

NOTE Confidence: 0.927160284

00:13:47.544 --> 00:13:48.240 numbers of periods.

NOTE Confidence: 0.927160284

00:13:48.240 --> 00:13:50.184 And it what's nice about is when you

NOTE Confidence: 0.927160284

00:13:50.184 --> 00:13:52.119 start even truncating it into periods,

NOTE Confidence: 0.927160284

00:13:52.120 --> 00:13:53.535 weight happens to be something

NOTE Confidence: 0.927160284

00:13:53.535 --> 00:13:54.950 that's very commonly measured within

NOTE Confidence: 0.927160284

00:13:54.998 --> 00:13:55.760 the health record.

NOTE Confidence: 0.927160284

00:13:55.760 --> 00:13:56.744 And we can actually show what

NOTE Confidence: 0.927160284

00:13:56.744 --> 00:13:57.236 we would expect,

NOTE Confidence: 0.927160284

00:13:57.240 --> 00:13:59.040 which is the longer people were on it,

NOTE Confidence: 0.927160284

00:13:59.040 --> 00:13:59.946 the more decline.

NOTE Confidence: 0.927160284

00:13:59.946 --> 00:14:01.758 This is in body mass index.

NOTE Confidence: 0.927160284

00:14:01.760 --> 00:14:02.693 So you know,

NOTE Confidence: 0.927160284

00:14:02.693 --> 00:14:04.914 one body mass index is usually, you know,

NOTE Confidence: 0.927160284

00:14:04.914 --> 00:14:06.153 could be about 10 lbs or something.

NOTE Confidence: 0.927160284

00:14:06.160 --> 00:14:07.777 So you know this is what you

NOTE Confidence: 0.927160284

00:14:07.777 --> 00:14:08.999 might have expected from this.

NOTE Confidence: 0.927160284

00:14:09.000 --> 00:14:11.358 But just to show you we're gaining the tools,

NOTE Confidence: 0.927160284

00:14:11.360 --> 00:14:11.824 the assays,

NOTE Confidence: 0.927160284

00:14:11.824 --> 00:14:13.680 the ability to use the real world data

NOTE Confidence: 0.927160284

00:14:13.736 --> 00:14:15.297 within our own medical records to be

NOTE Confidence: 0.927160284

00:14:15.297 --> 00:14:16.986 able to ask important questions and be

NOTE Confidence: 0.927160284

00:14:16.986 --> 00:14:18.870 able to look at this kind of variation.

NOTE Confidence: 0.927160284

00:14:18.870 --> 00:14:20.861 The last thing I want to say quickly was

NOTE Confidence: 0.927160284

00:14:20.861 --> 00:14:22.401 we're spending a lot of time thinking

NOTE Confidence: 0.927160284

00:14:22.401 --> 00:14:23.916 about how AI plays a role in this.

NOTE Confidence: 0.927160284

00:14:23.920 --> 00:14:25.888 We've got these amazing new capacity

NOTE Confidence: 0.927160284

00:14:25.888 --> 00:14:27.200 now with artificial intelligence.

NOTE Confidence: 0.823809085714286

00:14:27.200 --> 00:14:29.012 Would be crazy not to incorporate

NOTE Confidence: 0.823809085714286

00:14:29.012 --> 00:14:31.096 this into our research in ways that

NOTE Confidence: 0.823809085714286

00:14:31.096 --> 00:14:32.678 give us entirely new perspectives.

NOTE Confidence: 0.823809085714286

00:14:32.678 --> 00:14:35.066 I say despite the transformative advances

NOTE Confidence: 0.823809085714286

00:14:35.066 --> 00:14:37.440 in medicine and with these medicine,

NOTE Confidence: 0.823809085714286

00:14:37.440 --> 00:14:38.948 medicine itself remains largely

NOTE Confidence: 0.823809085714286

00:14:38.948 --> 00:14:40.833 anchored in an older era.

NOTE Confidence: 0.823809085714286

00:14:40.840 --> 00:14:42.060 Our labels are antiquated.

NOTE Confidence: 0.823809085714286

00:14:42.060 --> 00:14:44.743 I mean just saying this is a person

NOTE Confidence: 0.823809085714286

00:14:44.743 --> 00:14:46.327 with obesity without talking

NOTE Confidence: 0.823809085714286

00:14:46.327 --> 00:14:47.780 about subclasses, sub cohorts,

NOTE Confidence: 0.823809085714286

00:14:47.780 --> 00:14:49.760 really getting to a precision medicine,

NOTE Confidence: 0.823809085714286

00:14:49.760 --> 00:14:51.052 understanding what exactly does

NOTE Confidence: 0.823809085714286

00:14:51.052 --> 00:14:53.320 that person in front of you have.

NOTE Confidence: 0.823809085714286

00:14:53.320 --> 00:14:54.790 Our treatment decisions are largely

NOTE Confidence: 0.823809085714286

00:14:54.790 --> 00:14:56.626 based on average effects and our

NOTE Confidence: 0.823809085714286

00:14:56.626 --> 00:14:58.196 prognostic methods are quite limited.

NOTE Confidence: 0.823809085714286

00:14:58.200 --> 00:15:00.200 AI is game changing for how we diagnose,

NOTE Confidence: 0.823809085714286

00:15:00.200 --> 00:15:01.324 predict and treat disease.

NOTE Confidence: 0.823809085714286

00:15:01.324 --> 00:15:03.390 And I think AI is going to

NOTE Confidence: 0.823809085714286

00:15:03.390 --> 00:15:04.359 relate to diagnosis,

NOTE Confidence: 0.823809085714286

00:15:04.360 --> 00:15:06.320 therapeutics and prognosis through

NOTE Confidence: 0.823809085714286

00:15:06.320 --> 00:15:08.280 these electronic digital signatures.

NOTE Confidence: 0.823809085714286

00:15:08.280 --> 00:15:09.320 So in the lab,

NOTE Confidence: 0.823809085714286

00:15:09.320 --> 00:15:11.062 you guys are talking about deep immune,

NOTE Confidence: 0.823809085714286

00:15:11.062 --> 00:15:12.518 One of the work I'm doing with Akiko,

NOTE Confidence: 0.823809085714286

00:15:12.520 --> 00:15:14.635 deep immune phenotyping and she's

NOTE Confidence: 0.823809085714286

00:15:14.635 --> 00:15:16.327 developing signatures for different

NOTE Confidence: 0.823809085714286

00:15:16.327 --> 00:15:17.919 people based on lab assays.

NOTE Confidence: 0.823809085714286

00:15:17.920 --> 00:15:19.840 What we're going to be doing now is

NOTE Confidence: 0.823809085714286

00:15:19.840 --> 00:15:22.038 saying like how do we take digital

NOTE Confidence: 0.823809085714286

00:15:22.038 --> 00:15:23.594 information that's ubiquitous and to

NOTE Confidence: 0.823809085714286

00:15:23.594 --> 00:15:24.979 help us understand what condition

NOTE Confidence: 0.823809085714286

00:15:24.979 --> 00:15:26.836 does that person have in front of us?

NOTE Confidence: 0.823809085714286

00:15:26.840 --> 00:15:28.592 What's the best intervention that pairs

NOTE Confidence: 0.823809085714286

00:15:28.592 --> 00:15:30.916 with exactly who they are and what they need?

NOTE Confidence: 0.823809085714286

00:15:30.920 --> 00:15:32.838 And how do we optimize the outcomes

NOTE Confidence: 0.823809085714286

00:15:32.838 --> 00:15:34.434 and predict and prognosticate and

NOTE Confidence: 0.823809085714286

00:15:34.434 --> 00:15:36.234 then modify what that prediction

NOTE Confidence: 0.823809085714286

00:15:36.234 --> 00:15:38.109 might be through not only the

NOTE Confidence: 0.823809085714286

00:15:38.109 --> 00:15:39.838 drug that we might use an example

NOTE Confidence: 0.823809085714286

00:15:39.840 --> 00:15:41.336 for using pharmacologic therapy,

NOTE Confidence: 0.823809085714286

00:15:41.336 --> 00:15:44.280 but how we surround that patient with other,

NOTE Confidence: 0.823809085714286

00:15:44.280 --> 00:15:45.176 you know,

NOTE Confidence: 0.823809085714286

00:15:45.176 --> 00:15:46.968 outcomes enhancing strategies for

NOTE Confidence: 0.823809085714286

00:15:46.968 --> 00:15:48.760 that particular pharmacologic agent

NOTE Confidence: 0.823809085714286

00:15:48.824 --> 00:15:50.651 and not really just think about all

NOTE Confidence: 0.823809085714286

00:15:50.651 --> 00:15:52.799 we have to do is write the script.

NOTE Confidence: 0.823809085714286

00:15:52.800 --> 00:15:53.085 No,

NOTE Confidence: 0.823809085714286

00:15:53.085 --> 00:15:54.510 it's a script surrounded by

NOTE Confidence: 0.823809085714286

00:15:54.510 --> 00:15:55.080 other information,

NOTE Confidence: 0.823809085714286

00:15:55.080 --> 00:15:57.600 particularly in a condition like obesity.

NOTE Confidence: 0.823809085714286

00:15:57.600 --> 00:15:59.560 And then I'm saying these data signatures

NOTE Confidence: 0.823809085714286

00:15:59.560 --> 00:16:01.456 are really next generation phenotypes that

NOTE Confidence: 0.823809085714286

00:16:01.456 --> 00:16:03.794 are going to depend on multimodal inputs.

NOTE Confidence: 0.823809085714286

00:16:03.800 --> 00:16:04.304 So honestly,

NOTE Confidence: 0.823809085714286

00:16:04.304 --> 00:16:06.320 I'm agnostic actually to what the inputs are.

NOTE Confidence: 0.823809085714286

00:16:06.320 --> 00:16:07.838 I mean, as an outcomes researcher,

NOTE Confidence: 0.823809085714286

00:16:07.840 --> 00:16:08.455 I don't care.

NOTE Confidence: 0.823809085714286

00:16:08.455 --> 00:16:10.363 I want to know that I've got information

NOTE Confidence: 0.823809085714286

00:16:10.363 --> 00:16:12.478 coming from different knowledge domains.

NOTE Confidence: 0.823809085714286

00:16:12.480 --> 00:16:13.640 So I can use genomic,

NOTE Confidence: 0.823809085714286

00:16:13.640 --> 00:16:14.240 proteomic,

NOTE Confidence: 0.823809085714286

00:16:14.240 --> 00:16:15.440 clinical, social,

NOTE Confidence: 0.823809085714286

00:16:15.440 --> 00:16:17.840 environmental and contextual information.

NOTE Confidence: 0.823809085714286

00:16:17.840 --> 00:16:18.254 By contextual,

NOTE Confidence: 0.823809085714286

00:16:18.254 --> 00:16:19.910 I mean it may be different at this

NOTE Confidence: 0.823809085714286

00:16:19.959 --> 00:16:21.399 health system than somewhere else.

NOTE Confidence: 0.823809085714286

00:16:21.400 --> 00:16:24.000 Why are we succeeding more than they are?

NOTE Confidence: 0.823809085714286

00:16:24.000 --> 00:16:25.704 What lessons can they glean if

NOTE Confidence: 0.823809085714286

00:16:25.704 --> 00:16:27.550 we're doing better than than they

NOTE Confidence: 0.823809085714286

00:16:27.550 --> 00:16:29.200 are independent of everything else.

NOTE Confidence: 0.823809085714286

00:16:29.200 --> 00:16:30.720 Just saying by the context,

NOTE Confidence: 0.823809085714286

00:16:30.720 --> 00:16:31.480 the way we're set up,

NOTE Confidence: 0.823809085714286

00:16:31.480 --> 00:16:32.400 the clinics that we have,

NOTE Confidence: 0.823809085714286

00:16:32.400 --> 00:16:35.158 the kind of care that we deliver.

NOTE Confidence: 0.823809085714286

00:16:35.160 --> 00:16:35.600 So,

NOTE Confidence: 0.915735959333333

00:16:38.200 --> 00:16:39.814 So the other thing is we're

NOTE Confidence: 0.915735959333333

00:16:39.814 --> 00:16:40.621 developing strategic partnerships

NOTE Confidence: 0.915735959333333

00:16:40.621 --> 00:16:42.239 with groups that have aligned values,

NOTE Confidence: 0.915735959333333

00:16:42.240 --> 00:16:43.344 data and dissemination channels.

NOTE Confidence: 0.915735959333333

00:16:43.344 --> 00:16:45.343 Some of these I hope that we'll

NOTE Confidence: 0.915735959333333

00:16:45.343 --> 00:16:46.773 announce relatively soon that I

NOTE Confidence: 0.915735959333333

00:16:46.773 --> 00:16:48.516 think they'll blow you away by the

NOTE Confidence: 0.915735959333333

00:16:48.516 --> 00:16:49.584 kind of alignments that we're going

NOTE Confidence: 0.915735959333333

00:16:49.584 --> 00:16:50.800 to make in the teams that we're

NOTE Confidence: 0.915735959333333

00:16:50.800 --> 00:16:52.095 going to work with who want to be

NOTE Confidence: 0.915735959333333

00:16:52.095 --> 00:16:53.359 able to have the same goals We are

NOTE Confidence: 0.915735959333333

00:16:53.359 --> 00:16:55.271 and are going to help be a force

NOTE Confidence: 0.915735959333333

00:16:55.271 --> 00:16:57.123 multiplier effect for our access to

NOTE Confidence: 0.915735959333333

00:16:57.123 --> 00:16:58.678 data and channels for dissemination.

NOTE Confidence: 0.915735959333333

00:16:58.680 --> 00:17:00.997 And ultimately what we care about most,

NOTE Confidence: 0.915735959333333

00:17:01.000 --> 00:17:03.840 impact, impact is what we care about most.

NOTE Confidence: 0.915735959333333

00:17:03.840 --> 00:17:06.248 So our goal is to be the preeminent

NOTE Confidence: 0.915735959333333

00:17:06.248 --> 00:17:08.020 obesity outcomes research group within

NOTE Confidence: 0.915735959333333

00:17:08.020 --> 00:17:10.240 Y wait under Anya's leadership to

NOTE Confidence: 0.915735959333333

00:17:10.240 --> 00:17:12.555 optimize the prevention and treatment of

NOTE Confidence: 0.915735959333333

00:17:12.555 --> 00:17:14.760 obesity and to improve population health.

NOTE Confidence: 0.915735959333333

00:17:14.760 --> 00:17:15.400 Thank you.

NOTE Confidence: 0.805088561666667

00:17:23.840 --> 00:17:26.276 Thank you so much, Doctor Krumholz,

NOTE Confidence: 0.805088561666667

00:17:26.280 --> 00:17:29.196 Questions for Harlan from the audience.

NOTE Confidence: 0.723709738

00:17:31.720 --> 00:17:33.440 I've left you spellbound, crystal

NOTE Confidence: 0.919239558333333

00:17:33.440 --> 00:17:34.799 clear, crystal clear.

NOTE Confidence: 0.919239558333333

00:17:34.799 --> 00:17:37.105 So I'll ask from lessons learned

NOTE Confidence: 0.919239558333333

00:17:37.105 --> 00:17:38.995 from other work that you've done.

NOTE Confidence: 0.919239558333333

00:17:39.000 --> 00:17:42.200 How do you think we can engage patients

NOTE Confidence: 0.919239558333333

00:17:42.200 --> 00:17:44.800 with obesity in this work to help

NOTE Confidence: 0.919239558333333

00:17:44.800 --> 00:17:46.800 us better understand their needs,

NOTE Confidence: 0.919239558333333

00:17:46.800 --> 00:17:49.518 their experience? What do you think?

NOTE Confidence: 0.787278666666667

00:17:49.840 --> 00:17:52.262 Yep. I mean, anya's alluding to the

NOTE Confidence: 0.787278666666667

00:17:52.262 --> 00:17:53.884 fact that, but a lot of the work

NOTE Confidence: 0.787278666666667

00:17:53.884 --> 00:17:55.110 that I'm doing now is trying to

NOTE Confidence: 0.787278666666667

00:17:55.110 --> 00:17:56.433 redesign the way that we do research

NOTE Confidence: 0.787278666666667

00:17:56.473 --> 00:17:58.073 in the sense of moving away from a

NOTE Confidence: 0.787278666666667

00:17:58.073 --> 00:17:59.338 hierarchical part where the researchers

NOTE Confidence: 0.787278666666667

00:17:59.338 --> 00:18:01.680 are on top and we work with subjects.

NOTE Confidence: 0.787278666666667

00:18:01.680 --> 00:18:03.240 I don't even use the word

NOTE Confidence: 0.787278666666667

00:18:03.240 --> 00:18:04.125 subjects ever anymore.

NOTE Confidence: 0.787278666666667

00:18:04.125 --> 00:18:06.315 I mean, I'm talking about partners,

NOTE Confidence: 0.787278666666667

00:18:06.320 --> 00:18:08.320 people who we guarantee that anything we do,

NOTE Confidence: 0.787278666666667

00:18:08.320 --> 00:18:09.495 we're going to share those

NOTE Confidence: 0.787278666666667

00:18:09.495 --> 00:18:10.435 results back with you.

NOTE Confidence: 0.787278666666667

00:18:10.440 --> 00:18:12.320 We have town in some of the other work we do.

NOTE Confidence: 0.787278666666667

00:18:12.320 --> 00:18:13.060 We have town halls.

NOTE Confidence: 0.787278666666667

00:18:13.060 --> 00:18:14.760 We give people access to the investigators.

NOTE Confidence: 0.787278666666667

00:18:14.760 --> 00:18:16.726 We let them ask us questions, we give them,

NOTE Confidence: 0.787278666666667

00:18:16.726 --> 00:18:18.400 we post them on YouTube when we're done.

NOTE Confidence: 0.787278666666667

00:18:18.400 --> 00:18:20.080 So the people who couldn't make

NOTE Confidence: 0.787278666666667

00:18:20.080 --> 00:18:21.545 that meeting can find out about

NOTE Confidence: 0.787278666666667

00:18:21.545 --> 00:18:23.200 the study and what we're learning.

NOTE Confidence: 0.787278666666667

00:18:23.200 --> 00:18:25.951 We we, we really push this agenda

NOTE Confidence: 0.787278666666667

00:18:25.951 --> 00:18:28.240 of saying you're our partners,

NOTE Confidence: 0.787278666666667

00:18:28.240 --> 00:18:28.684 you know,

NOTE Confidence: 0.787278666666667

00:18:28.684 --> 00:18:29.794 we're working together in common

NOTE Confidence: 0.787278666666667

00:18:29.794 --> 00:18:31.481 cause no one has more motivation about

NOTE Confidence: 0.787278666666667

00:18:31.481 --> 00:18:32.939 trying to find answers than people

NOTE Confidence: 0.787278666666667

00:18:32.982 --> 00:18:34.398 who are affected by the conditions.

NOTE Confidence: 0.787278666666667

00:18:34.400 --> 00:18:35.940 But so you tell me how is it that we

NOTE Confidence: 0.787278666666667

00:18:35.992 --> 00:18:37.408 lose people in trials otherwise is

NOTE Confidence: 0.787278666666667

00:18:37.408 --> 00:18:38.959 that people are lost to follow up.

NOTE Confidence: 0.787278666666667

00:18:38.960 --> 00:18:40.759 They lose interest. They just follow up.

NOTE Confidence: 0.787278666666667

00:18:40.760 --> 00:18:42.320 It's because they get alienated.

NOTE Confidence: 0.787278666666667

00:18:42.320 --> 00:18:44.056 They don't feel as if we're actually

NOTE Confidence: 0.787278666666667

00:18:44.056 --> 00:18:44.800 attentive to them.

NOTE Confidence: 0.787278666666667

00:18:44.800 --> 00:18:45.352 To me,

NOTE Confidence: 0.787278666666667

00:18:45.352 --> 00:18:47.560 my goal is that everybody's in any studies,

NOTE Confidence: 0.787278666666667

00:18:47.560 --> 00:18:49.558 ours is delighted by the experience.

NOTE Confidence: 0.787278666666667

00:18:49.560 --> 00:18:50.856 Will brag to their friends about

NOTE Confidence: 0.787278666666667

00:18:50.856 --> 00:18:52.596 how good it was and try to tell

NOTE Confidence: 0.787278666666667

00:18:52.596 --> 00:18:53.838 others they would do it again.

NOTE Confidence: 0.787278666666667

00:18:53.840 --> 00:18:55.394 And so that means that we constructed

NOTE Confidence: 0.787278666666667

00:18:55.394 --> 00:18:57.494 in a way that the any advances we make

NOTE Confidence: 0.787278666666667

00:18:57.494 --> 00:18:59.678 are ones that they can also feel good about.

NOTE Confidence: 0.787278666666667

00:18:59.680 --> 00:19:01.237 They can talk about it at the dinner table.

NOTE Confidence: 0.787278666666667

00:19:01.240 --> 00:19:03.319 They can they can recognize that we

NOTE Confidence: 0.787278666666667

00:19:03.319 --> 00:19:05.280 honor and respect their contribution

NOTE Confidence: 0.787278666666667

00:19:05.280 --> 00:19:06.624 that we we we guarantee that we're

NOTE Confidence: 0.787278666666667

00:19:06.624 --> 00:19:08.180 going to tell them what we learn and

NOTE Confidence: 0.787278666666667

00:19:08.180 --> 00:19:09.568 we're going to give them the credit

NOTE Confidence: 0.787278666666667

00:19:09.568 --> 00:19:11.200 that they deserve for taking the time to

NOTE Confidence: 0.787278666666667

00:19:11.200 --> 00:19:12.760 work with us to be able to do the work.

NOTE Confidence: 0.787278666666667

00:19:12.760 --> 00:19:14.356 So I I think the people with

NOTE Confidence: 0.787278666666667

00:19:14.356 --> 00:19:16.275 obesity is a prime group to be able

NOTE Confidence: 0.787278666666667

00:19:16.275 --> 00:19:18.120 to pull pull in and learn from.

NOTE Confidence: 0.787278666666667

00:19:18.120 --> 00:19:18.750 By the way,

NOTE Confidence: 0.787278666666667

00:19:18.750 --> 00:19:20.492 I want to say with humility that it's

NOTE Confidence: 0.787278666666667

00:19:20.492 --> 00:19:22.427 not just that you do this because it's a

NOTE Confidence: 0.787278666666667

00:19:22.482 --> 00:19:24.400 good strategy to keep people in studies.

NOTE Confidence: 0.787278666666667

00:19:24.400 --> 00:19:26.024 It's a smart strategy if you want to

NOTE Confidence: 0.787278666666667

00:19:26.024 --> 00:19:27.771 be a good researcher because there's

NOTE Confidence: 0.787278666666667

00:19:27.771 --> 00:19:30.017 wisdom that resides in people who live

NOTE Confidence: 0.787278666666667

00:19:30.017 --> 00:19:31.837 with the conditions and we'd be well,

NOTE Confidence: 0.787278666666667

00:19:31.840 --> 00:19:34.736 well served to to humbly learn from them

NOTE Confidence: 0.787278666666667

00:19:34.736 --> 00:19:37.040 when they've got things to tell us.

NOTE Confidence: 0.91902328

00:19:38.000 --> 00:19:39.856 I wholeheartedly agree. Well,

NOTE Confidence: 0.91902328

00:19:39.856 --> 00:19:42.640 thank you for that wonderful talk,

NOTE Confidence: 0.91902328

00:19:42.640 --> 00:19:45.840 Harlan, and we are going to move forward

NOTE Confidence: 0.91902328

00:19:45.840 --> 00:19:48.080 with our final speaker for the day.