WEBVTT

NOTE duration:"00:40:43"

NOTE language:en-us

NOTE Confidence: 0.843725644705882

00:00:00.000 --> 00:00:02.080 Young presentation that I have

NOTE Confidence: 0.843725644705882

00:00:02.080 --> 00:00:04.604 lined up here right back to

NOTE Confidence: 0.843725644705882

00:00:04.604 --> 00:00:06.806 the share screen and let's see.

NOTE Confidence: 0.843725644705882

00:00:06.810 --> 00:00:11.430 I guess this is the one share.

NOTE Confidence: 0.843725644705882

00:00:11.430 --> 00:00:13.621 Let's see here we go and

NOTE Confidence: 0.843725644705882

00:00:13.621 --> 00:00:15.289 then we connected this.

NOTE Confidence: 0.843725644705882

00:00:15.290 --> 00:00:17.630 There we go. Excellent

NOTE Confidence: 0.821019998421053

00:00:18.090 --> 00:00:19.332 Doctor Chris Korea.

NOTE Confidence: 0.821019998421053

00:00:19.332 --> 00:00:23.997 So nice to see you so we I did I did

NOTE Confidence: 0.821019998421053

00:00:23.997 --> 00:00:26.750 your lovely intro before but and we

NOTE Confidence: 0.821019998421053

00:00:26.750 --> 00:00:29.060 have actually I will just say verbally

NOTE Confidence: 0.821019998421053

00:00:29.060 --> 00:00:31.410 but we have a plaque to give you.

NOTE Confidence: 0.821019998421053

00:00:31.410 --> 00:00:34.275 You are actually officially our

NOTE Confidence: 0.821019998421053

00:00:34.275 --> 00:00:36.110 inaugural annual speaker for

NOTE Confidence: 0.821019998421053

00:00:36.110 --> 00:00:38.630 our new Center for GI cancers,

NOTE Confidence: 0.821019998421053

00:00:38.630 --> 00:00:41.654 so we're happy to invite you and.

NOTE Confidence: 0.821019998421053

00:00:41.660 --> 00:00:45.419 Really excited to hear you today so.

NOTE Confidence: 0.821019998421053

00:00:45.420 --> 00:00:47.850 And we appreciate everyone who

NOTE Confidence: 0.821019998421053

00:00:47.850 --> 00:00:50.380 waited and I think Doctor Cruz

NOTE Confidence: 0.821019998421053

00:00:50.380 --> 00:00:52.120 Correa will probably need to end.

NOTE Confidence: 0.821019998421053

00:00:52.120 --> 00:00:54.560 Maybe like 5 minutes before

NOTE Confidence: 0.821019998421053

00:00:54.560 --> 00:00:56.512 the hour or 10:10.

NOTE Confidence: 0.821019998421053

00:00:56.520 --> 00:00:58.320 I mean, if you, I'll let you figure that out.

NOTE Confidence: 0.821019998421053

00:00:58.320 --> 00:00:59.776 We'd love to have time for questions,

NOTE Confidence: 0.821019998421053

00:00:59.780 --> 00:01:01.480 but if not, we understand.

NOTE Confidence: 0.821019998421053

00:01:01.480 --> 00:01:01.930 Alright.

NOTE Confidence: 0.760749236666667

00:01:02.180 --> 00:01:04.220 Yeah, wonderful and well, I'll do.

NOTE Confidence: 0.760749236666667

00:01:04.220 --> 00:01:06.188 You know, the last part I can skip.

NOTE Confidence: 0.760749236666667

00:01:06.190 --> 00:01:07.798 And yes, I'll stop more or less when

NOTE Confidence: 0.760749236666667

00:01:07.798 --> 00:01:09.698 I see that the time it's it's there.

NOTE Confidence: 0.760749236666667

00:01:09.700 --> 00:01:11.380 So we have about 2025 minutes.

NOTE Confidence: 0.760749236666667

00:01:11.380 --> 00:01:13.935 OK, well, so good afternoon to everyone

NOTE Confidence: 0.760749236666667

00:01:13.935 --> 00:01:16.347 and and thank you very much for.

NOTE Confidence: 0.760749236666667

00:01:16.350 --> 00:01:18.990 Dealing with the with life right?

NOTE Confidence: 0.760749236666667

00:01:18.990 --> 00:01:21.105 I mean we plan many things in our lives

NOTE Confidence: 0.760749236666667

00:01:21.105 --> 00:01:23.259 and there are things that you learned.

NOTE Confidence: 0.760749236666667

00:01:23.260 --> 00:01:24.740 I think the older that we get that

NOTE Confidence: 0.760749236666667

00:01:24.740 --> 00:01:26.339 there are things that you can control.

NOTE Confidence: 0.760749236666667

00:01:26.340 --> 00:01:27.804 That there are things that you cannot control

NOTE Confidence: 0.760749236666667

00:01:27.804 --> 00:01:29.285 so later and I'll tell you what happened.

NOTE Confidence: 0.760749236666667

00:01:29.290 --> 00:01:31.210 But you know, the good news is that

NOTE Confidence: 0.760749236666667

00:01:31.210 --> 00:01:32.752 we're here and I'm delighted and

NOTE Confidence: 0.760749236666667

00:01:32.752 --> 00:01:34.990 honored to be part of this presentation.

NOTE Confidence: 0.760749236666667

00:01:34.990 --> 00:01:37.503 So briefly, address some of the concepts

NOTE Confidence: 0.760749236666667

00:01:37.503 --> 00:01:39.845 that our group have been working on

NOTE Confidence: 0.760749236666667

00:01:39.845 --> 00:01:42.170 for the last years over a decade.

NOTE Confidence: 0.760749236666667

00:01:42.170 --> 00:01:43.385 At this point,

NOTE Confidence: 0.760749236666667

00:01:43.385 --> 00:01:46.620 and we have been focusing on Latinos and.

NOTE Confidence: 0.760749236666667

00:01:46.620 --> 00:01:47.354 Family communities,

NOTE Confidence: 0.760749236666667

00:01:47.354 --> 00:01:49.189 and specifically in GI cancers,

NOTE Confidence: 0.760749236666667

00:01:49.190 --> 00:01:50.660 and I'm going to, you know,

NOTE Confidence: 0.760749236666667

00:01:50.660 --> 00:01:52.735 narrowed the topic to colorectal

NOTE Confidence: 0.760749236666667

00:01:52.735 --> 00:01:55.642 cancer as one of the areas that

NOTE Confidence: 0.760749236666667

00:01:55.642 --> 00:01:57.874 we have been no witness of,

NOTE Confidence: 0.760749236666667

00:01:57.880 --> 00:02:00.351 the disparities that we have seen across

NOTE Confidence: 0.760749236666667

00:02:00.351 --> 00:02:02.520 the different ethnic and racial groups.

NOTE Confidence: 0.760749236666667

00:02:02.520 --> 00:02:04.888 So the talk has three main areas and

NOTE Confidence: 0.760749236666667

00:02:04.888 --> 00:02:07.689 I will briefly discuss some of the

NOTE Confidence: 0.760749236666667

00:02:07.689 --> 00:02:09.824 epidemiological data that we have.

NOTE Confidence: 0.760749236666667

00:02:09.830 --> 00:02:12.014 Then I'm going to talk about some of

NOTE Confidence: 0.760749236666667

00:02:12.014 --> 00:02:13.530 the environmental factors and then

NOTE Confidence: 0.760749236666667

00:02:13.530 --> 00:02:15.354 the molecular aspects and then putting

NOTE Confidence: 0.760749236666667

00:02:15.354 --> 00:02:17.229 that together trying to understand,

NOTE Confidence: 0.760749236666667

00:02:17.230 --> 00:02:17.934 you know.

NOTE Confidence: 0.760749236666667

00:02:17.934 --> 00:02:20.750 How much do we know of the reasons

NOTE Confidence: 0.760749236666667

00:02:20.830 --> 00:02:23.670 behind these academic that we're

NOTE Confidence: 0.760749236666667

00:02:23.670 --> 00:02:25.942 seeing across different groups,

NOTE Confidence: 0.760749236666667

00:02:25.950 --> 00:02:27.450 including the Hispanics?

NOTE Confidence: 0.760749236666667

00:02:27.450 --> 00:02:30.450 So this chart comes from the

NOTE Confidence: 0.760749236666667

00:02:30.450 --> 00:02:32.647 national databases where you can

NOTE Confidence: 0.760749236666667

00:02:32.647 --> 00:02:35.369 see that by the year 2050, right?

NOTE Confidence: 0.760749236666667

00:02:35.369 --> 00:02:37.761 You can see where the places where you're

NOTE Confidence: 0.760749236666667

00:02:37.761 --> 00:02:40.057 going to have larger groups of Hispanics,

NOTE Confidence: 0.760749236666667

00:02:40.060 --> 00:02:42.030 and you know colorectal cancer.

NOTE Confidence: 0.760749236666667

00:02:42.030 --> 00:02:43.926 It's one of those answers that

NOTE Confidence: 0.760749236666667

00:02:43.926 --> 00:02:45.190 continue to increase this.

NOTE Confidence: 0.760749236666667

00:02:45.190 --> 00:02:47.700 Find the available at screening

NOTE Confidence: 0.760749236666667

00:02:47.700 --> 00:02:49.708 methods that we have.

NOTE Confidence: 0.760749236666667

00:02:49.710 --> 00:02:50.830 And when you look at,

NOTE Confidence: 0.760749236666667

00:02:50.830 --> 00:02:54.132 you know the world right in the in

NOTE Confidence: 0.760749236666667

00:02:54.132 --> 00:02:57.940 the US we see that many Hispanic U.S.

NOTE Confidence: 0.760749236666667

00:02:57.940 --> 00:03:01.370 citizens have this high burden of this.

NOTE Confidence: 0.760749236666667

00:03:01.370 --> 00:03:03.362 So is the second most common

NOTE Confidence: 0.760749236666667

00:03:03.362 --> 00:03:05.489 cause of cancer among US Latinos.

NOTE Confidence: 0.760749236666667

00:03:05.490 --> 00:03:07.056 You can see the number there,

NOTE Confidence: 0.760749236666667

00:03:07.060 --> 00:03:09.370 the third most common cause

NOTE Confidence: 0.760749236666667

00:03:09.370 --> 00:03:10.756 of cancer worldwide.

NOTE Confidence: 0.760749236666667

00:03:10.760 --> 00:03:13.838 And then the fourth most common

NOTE Confidence: 0.760749236666667

00:03:13.840 --> 00:03:15.700 cause of cancer related death.

NOTE Confidence: 0.760749236666667

00:03:15.700 --> 00:03:18.424 So clearly this is a disease

NOTE Confidence: 0.760749236666667

00:03:18.424 --> 00:03:19.786 that continues to.

NOTE Confidence: 0.760749236666667

00:03:19.790 --> 00:03:21.766 You know to to take the life of

NOTE Confidence: 0.760749236666667

00:03:21.766 --> 00:03:23.909 so many people every single year.

NOTE Confidence: 0.760749236666667

00:03:23.910 --> 00:03:25.947 And here I described right where we

NOTE Confidence: 0.760749236666667

00:03:25.947 --> 00:03:28.346 go from the public to the cancer and

NOTE Confidence: 0.760749236666667

00:03:28.346 --> 00:03:31.136 this takes close to 10 to 15 years for

NOTE Confidence: 0.760749236666667

00:03:31.136 --> 00:03:33.032 people without having to re cancer.

NOTE Confidence: 0.760749236666667

00:03:33.040 --> 00:03:36.056 And when you put this into perspective right?

NOTE Confidence: 0.760749236666667

00:03:36.060 --> 00:03:37.113 And this is,

NOTE Confidence: 0.760749236666667

00:03:37.113 --> 00:03:39.219 I'm thinking about Latinos in America.

NOTE Confidence: 0.760749236666667

00:03:39.220 --> 00:03:41.747 You see that depending where you are,

NOTE Confidence: 0.760749236666667

00:03:41.750 --> 00:03:43.955 the burden of colorectal cancer

NOTE Confidence: 0.760749236666667

00:03:43.955 --> 00:03:44.837 changes dramatically.

NOTE Confidence: 0.760749236666667

00:03:44.840 --> 00:03:46.000 So if you look at,

NOTE Confidence: 0.760749236666667

00:03:46.000 --> 00:03:47.728 you know I put some arrows in order

NOTE Confidence: 0.760749236666667

00:03:47.728 --> 00:03:49.684 why at him? Tina and Puerto Rico.

NOTE Confidence: 0.760749236666667

00:03:49.684 --> 00:03:51.580 You can see the differences in

NOTE Confidence: 0.760749236666667

00:03:51.650 --> 00:03:53.082 incidence and mortality both

NOTE Confidence: 0.760749236666667

00:03:53.082 --> 00:03:54.872 for male and and female,

NOTE Confidence: 0.774312243333333

00:03:54.880 --> 00:03:57.250 and you know places like autowire,

NOTE Confidence: 0.774312243333333

00:03:57.250 --> 00:03:58.290 jentina, and Puerto Rico.

NOTE Confidence: 0.774312243333333

00:03:58.290 --> 00:03:59.590 We have things in common.

NOTE Confidence: 0.774312243333333

00:03:59.590 --> 00:04:01.270 Not only do we speak the same language,

NOTE Confidence: 0.774312243333333

00:04:01.270 --> 00:04:02.810 but with different accents, right?

NOTE Confidence: 0.774312243333333

00:04:02.810 --> 00:04:06.233 For those of people that know the

NOTE Confidence: 0.774312243333333

00:04:06.233 --> 00:04:07.700 different Hispanic communities.

NOTE Confidence: 0.774312243333333

00:04:07.700 --> 00:04:10.042 But we also eat a lot of meat, right?

NOTE Confidence: 0.774312243333333

00:04:10.042 --> 00:04:12.086 So that that's one of those factors

NOTE Confidence: 0.774312243333333

00:04:12.086 --> 00:04:14.189 that might come into play or might

NOTE Confidence: 0.774312243333333

00:04:14.189 --> 00:04:15.959 be contributing at this point and

NOTE Confidence: 0.774312243333333

00:04:15.959 --> 00:04:17.967 then looking at the data from the US.

NOTE Confidence: 0.774312243333333

00:04:17.970 --> 00:04:20.040 This is actually age adjusted.

NOTE Confidence: 0.774312243333333

00:04:20.040 --> 00:04:21.620 Incidence rates are in

NOTE Confidence: 0.774312243333333

00:04:21.620 --> 00:04:23.595 colorectal cancer in the US.

NOTE Confidence: 0.774312243333333

00:04:23.600 --> 00:04:25.988 Looking at the different races and

NOTE Confidence: 0.774312243333333

00:04:25.988 --> 00:04:28.529 Hispanic communities so you can see that

NOTE Confidence: 0.774312243333333

00:04:28.529 --> 00:04:31.110 the bias burden for both male and female,

NOTE Confidence: 0.774312243333333

00:04:31.110 --> 00:04:32.700 it's in the black community.

NOTE Confidence: 0.774312243333333

00:04:32.700 --> 00:04:33.011 However,

NOTE Confidence: 0.774312243333333

00:04:33.011 --> 00:04:35.188 when you look at what American Hispanics,

NOTE Confidence: 0.774312243333333

00:04:35.190 --> 00:04:37.062 it's very closed to when you

NOTE Confidence: 0.774312243333333

00:04:37.062 --> 00:04:38.820 combine all the races and is.

NOTE Confidence: 0.774312243333333

00:04:38.820 --> 00:04:40.029 I'm close to.

NOTE Confidence: 0.665103401666667

00:04:42.420 --> 00:04:46.096 I Landers, or are Native Americans, right?

NOTE Confidence: 0.665103401666667

00:04:46.096 --> 00:04:47.976 So you can see how.

NOTE Confidence: 0.665103401666667

00:04:47.980 --> 00:04:49.780 Even within the Hispanic communities,

NOTE Confidence: 0.665103401666667

00:04:49.780 --> 00:04:51.468 there are differences depending

NOTE Confidence: 0.665103401666667

00:04:51.468 --> 00:04:54.000 where the Hispanic is coming from,

NOTE Confidence: 0.665103401666667

00:04:54.000 --> 00:04:55.912 so it's not the same thing as when

NOTE Confidence: 0.665103401666667

00:04:55.912 --> 00:04:57.981 you look at Hispanics that are are

NOTE Confidence: 0.665103401666667

00:04:57.981 --> 00:04:59.871 from Mexico versus those that are

NOTE Confidence: 0.665103401666667

00:04:59.871 --> 00:05:01.671 from the Caribbean and you can

NOTE Confidence: 0.665103401666667

00:05:01.671 --> 00:05:03.244 hypothesize many of the reasons

NOTE Confidence: 0.665103401666667

00:05:03.244 --> 00:05:04.904 why we're seeing those differences.

NOTE Confidence: 0.665103401666667

00:05:04.910 --> 00:05:07.060 So this article was is,

NOTE Confidence: 0.665103401666667

00:05:07.060 --> 00:05:08.240 or over 10 years old.

NOTE Confidence: 0.665103401666667

00:05:08.240 --> 00:05:10.354 But I still look at this because

NOTE Confidence: 0.665103401666667

00:05:10.354 --> 00:05:12.131 it was mesmerized actually met

NOTE Confidence: 0.665103401666667

00:05:12.131 --> 00:05:14.156 Doctor Pinheiro in a presentation.

NOTE Confidence: 0.665103401666667

00:05:14.160 --> 00:05:15.595 And basically you know when

NOTE Confidence: 0.665103401666667

00:05:15.595 --> 00:05:16.743 they were looking at,

NOTE Confidence: 0.665103401666667

00:05:16.750 --> 00:05:19.250 he was evaluating the incidents.

NOTE Confidence: 0.665103401666667

00:05:19.250 --> 00:05:21.651 Rate for cancer and he looked at

NOTE Confidence: 0.665103401666667

00:05:21.651 --> 00:05:24.047 different groups and he looked at the

NOTE Confidence: 0.665103401666667

00:05:24.047 --> 00:05:25.991 incidence rate of cancer in their

NOTE Confidence: 0.665103401666667

00:05:26.058 --> 00:05:28.002 native community and then when they

NOTE Confidence: 0.665103401666667

00:05:28.002 --> 00:05:31.076 move to the US and this is data from Florida.

NOTE Confidence: 0.665103401666667

00:05:31.080 --> 00:05:33.704 So you can see that you know Mexicans

NOTE Confidence: 0.665103401666667

00:05:33.704 --> 00:05:36.316 and Mexico had a lower incidence rate

NOTE Confidence: 0.665103401666667

00:05:36.316 --> 00:05:39.300 as compared to Mexicans that move to the US.

NOTE Confidence: 0.665103401666667

00:05:39.300 --> 00:05:41.386 The same thing happened for Puerto Rican's.

NOTE Confidence: 0.665103401666667

00:05:41.390 --> 00:05:43.161 You can see how they you know

NOTE Confidence: 0.665103401666667

00:05:43.161 --> 00:05:44.701 when they are native Puerto

NOTE Confidence: 0.665103401666667

00:05:44.701 --> 00:05:46.506 Ricans living in Puerto Rico.

NOTE Confidence: 0.665103401666667

00:05:46.510 --> 00:05:48.025 The incidence is slower but

NOTE Confidence: 0.665103401666667

00:05:48.025 --> 00:05:50.099 when they move to the US this.

NOTE Confidence: 0.665103401666667

00:05:50.100 --> 00:05:52.368 Number goes up the same thing for

NOTE Confidence: 0.665103401666667

00:05:52.368 --> 00:05:55.222 Givens and look at how very close to

NOTE Confidence: 0.665103401666667

00:05:55.222 --> 00:05:57.310 their incidents for incidence rate for

NOTE Confidence: 0.665103401666667

00:05:57.310 --> 00:05:59.506 those that are native from Florida,

NOTE Confidence: 0.665103401666667

00:05:59.510 --> 00:06:02.168 so you know it's impossible to

NOTE Confidence: 0.665103401666667

00:06:02.168 --> 00:06:05.344 have this huge change based on the

NOTE Confidence: 0.665103401666667

00:06:05.344 --> 00:06:07.336 on the genetic changes, right?

NOTE Confidence: 0.665103401666667

00:06:07.336 --> 00:06:08.280 So so of course,

NOTE Confidence: 0.665103401666667

00:06:08.280 --> 00:06:10.180 environment is what really comes

NOTE Confidence: 0.665103401666667

00:06:10.180 --> 00:06:12.080 over and over into place.

NOTE Confidence: 0.665103401666667

00:06:12.080 --> 00:06:14.858 So I started working with several

NOTE Confidence: 0.665103401666667

00:06:14.858 --> 00:06:17.975 groups from the US including an

NOTE Confidence: 0.665103401666667

00:06:17.975 --> 00:06:20.656 Doctor Mariana Stern from University

NOTE Confidence: 0.665103401666667

00:06:20.656 --> 00:06:22.030 of Southern California.

NOTE Confidence: 0.665103401666667

00:06:22.030 --> 00:06:24.628 Anne Marie Anna published this article.

NOTE Confidence: 0.665103401666667

00:06:24.630 --> 00:06:26.597 A few years ago where she look

NOTE Confidence: 0.665103401666667

00:06:26.597 --> 00:06:28.358 at the disparities in colorectal

NOTE Confidence: 0.665103401666667

00:06:28.358 --> 00:06:30.078 cancer incidence among Latinos.

NOTE Confidence: 0.665103401666667

00:06:30.080 --> 00:06:32.366 But California is a melting pot.

NOTE Confidence: 0.665103401666667

00:06:32.370 --> 00:06:33.270 Don't know, right?

NOTE Confidence: 0.665103401666667

00:06:33.270 --> 00:06:35.370 So we have Latinas from South America,

NOTE Confidence: 0.665103401666667

00:06:35.370 --> 00:06:36.825 Central America and of course

NOTE Confidence: 0.665103401666667

00:06:36.825 --> 00:06:37.989 also from the Caribbean.

NOTE Confidence: 0.665103401666667

00:06:37.990 --> 00:06:42.012 So she was able to identify that 17% of

NOTE Confidence: 0.665103401666667

00:06:42.012 --> 00:06:44.267 all Latinas from California presented

NOTE Confidence: 0.665103401666667

00:06:44.267 --> 00:06:47.109 with colorectal cancer before the age of 50.

NOTE Confidence: 0.665103401666667

00:06:47.110 --> 00:06:49.000 So early on set colorectal cancer

NOTE Confidence: 0.665103401666667

00:06:49.000 --> 00:06:51.134 and this was published before the

NOTE Confidence: 0.665103401666667

00:06:51.134 --> 00:06:51.950 recent guidelines,

NOTE Confidence: 0.665103401666667

00:06:51.950 --> 00:06:52.784 right where?

NOTE Confidence: 0.665103401666667

00:06:52.784 --> 00:06:55.286 Now we start performing colorectal cancer

NOTE Confidence: 0.665103401666667

00:06:55.286 --> 00:06:57.833 screening at the age of 45 according

NOTE Confidence: 0.665103401666667

00:06:57.833 --> 00:07:00.229 to the US Preventive Services Task Force.

NOTE Confidence: 0.665103401666667

00:07:00.230 --> 00:07:01.434 So this is before,

NOTE Confidence: 0.665103401666667

00:07:01.434 --> 00:07:02.036 you know,

NOTE Confidence: 0.665103401666667

00:07:02.040 --> 00:07:03.505 five years before that happened

NOTE Confidence: 0.665103401666667

00:07:03.505 --> 00:07:05.807 and you know she had a good

NOTE Confidence: 0.665103401666667

00:07:05.807 --> 00:07:07.363 representation from Puerto Rican's

NOTE Confidence: 0.665103401666667

00:07:07.363 --> 00:07:08.919 and also Mexican Americans.

NOTE Confidence: 0.665103401666667

00:07:08.920 --> 00:07:12.049 And then of course the other you

NOTE Confidence: 0.665103401666667

00:07:12.049 --> 00:07:13.980 know worrisome factor was at

NOTE Confidence: 0.665103401666667

00:07:13.980 --> 00:07:16.010 49% of Latinos presented with

NOTE Confidence: 0.665103401666667

00:07:16.010 --> 00:07:18.040 colorectal cancer and advanced age.

NOTE Confidence: 0.665103401666667

00:07:18.040 --> 00:07:19.424 So not only younger,

NOTE Confidence: 0.665103401666667

00:07:19.424 --> 00:07:21.154 but also an advanced age.

NOTE Confidence: 0.665103401666667

00:07:21.160 --> 00:07:23.400 And this is data from our group.

NOTE Confidence: 0.665103401666667

00:07:23.400 --> 00:07:25.460 When they presented with early

NOTE Confidence: 0.665103401666667

00:07:25.460 --> 00:07:26.696 onset colorectal cancer,

NOTE Confidence: 0.665103401666667

00:07:26.700 --> 00:07:28.550 this survival is is less.

NOTE Confidence: 0.665103401666667

00:07:28.550 --> 00:07:30.236 So now let's let's chip gears

NOTE Confidence: 0.665103401666667

00:07:30.236 --> 00:07:32.020 and talk a little bit about.

NOTE Confidence: 0.665103401666667

00:07:32.020 --> 00:07:34.211 You know some of the environmental factors

NOTE Confidence: 0.665103401666667

00:07:34.211 --> 00:07:37.006 that we and others have been evaluating so.

NOTE Confidence: 0.665103401666667

00:07:37.010 --> 00:07:39.175 Things like tobacco are fabulous

NOTE Confidence: 0.665103401666667

00:07:39.175 --> 00:07:41.340 diet right which sometimes can

NOTE Confidence: 0.665103401666667

00:07:41.413 --> 00:07:43.268 not be as good as it could.

NOTE Confidence: 0.848411123333333

00:07:43.270 --> 00:07:45.936 It could be obesity, which is, you know,

NOTE Confidence: 0.848411123333333

00:07:45.936 --> 00:07:47.917 a common risk factor for many diseases,

NOTE Confidence: 0.848411123333333

00:07:47.920 --> 00:07:50.302 including cancer and of course is

NOTE Confidence: 0.848411123333333

00:07:50.302 --> 00:07:52.290 sedentary lifestyle an you know.

NOTE Confidence: 0.848411123333333

00:07:52.290 --> 00:07:54.345 Looking at the different aspects

NOTE Confidence: 0.848411123333333

00:07:54.345 --> 00:07:57.690 right a few years ago in 2015 The

NOTE Confidence: 0.848411123333333

00:07:57.690 --> 00:08:01.212 Who for the first time you know

NOTE Confidence: 0.848411123333333

00:08:01.212 --> 00:08:03.828 classified red and processed meat as

NOTE Confidence: 0.848411123333333

00:08:03.828 --> 00:08:07.168 part of the carcinogenic risk factor.

NOTE Confidence: 0.848411123333333

00:08:07.170 --> 00:08:08.170 So specifically.

NOTE Confidence: 0.848411123333333

00:08:08.170 --> 00:08:10.670 Processed red meat was classified

NOTE Confidence: 0.848411123333333

00:08:10.670 --> 00:08:12.979 as a carcinogenic class one,

NOTE Confidence: 0.848411123333333

00:08:12.980 --> 00:08:14.558 and to put everyone into context,

NOTE Confidence: 0.848411123333333

00:08:14.560 --> 00:08:16.423 this is the same category where you have H.

NOTE Confidence: 0.848411123333333

00:08:16.430 --> 00:08:19.650 Pylori where you have asbestos where we

NOTE Confidence: 0.848411123333333

00:08:19.650 --> 00:08:22.850 have other other factors like tobacco,

NOTE Confidence: 0.848411123333333

00:08:22.850 --> 00:08:24.614 so they're all carcinogens.

NOTE Confidence: 0.848411123333333

00:08:24.614 --> 00:08:25.496 Class one,

NOTE Confidence: 0.848411123333333

00:08:25.500 --> 00:08:29.280 but the risk associated to exposure of

NOTE Confidence: 0.848411123333333

00:08:29.280 --> 00:08:31.540 this particular environmental factor.

NOTE Confidence: 0.848411123333333

00:08:31.540 --> 00:08:34.011 It's much less that that you know

NOTE Confidence: 0.848411123333333

00:08:34.011 --> 00:08:36.417 that observed in other risk factors

NOTE Confidence: 0.848411123333333

00:08:36.417 --> 00:08:38.546 such as asbestos, for instance.

NOTE Confidence: 0.848411123333333

00:08:38.546 --> 00:08:38.974 Nonetheless,

NOTE Confidence: 0.848411123333333

00:08:38.974 --> 00:08:41.542 you know this started as supported

NOTE Confidence: 0.848411123333333

00:08:41.542 --> 00:08:44.178 on the role between the exposure

NOTE Confidence: 0.848411123333333

00:08:44.178 --> 00:08:46.318 of these carcinogens because they,

NOTE Confidence: 0.848411123333333

00:08:46.320 --> 00:08:48.448 you know we know now know that there

NOTE Confidence: 0.848411123333333

00:08:48.448 --> 00:08:50.508 are changes that occur at the level of

NOTE Confidence: 0.848411123333333

00:08:50.508 --> 00:08:52.544 the DNA where you get a heterocyclic

NOTE Confidence: 0.848411123333333

00:08:52.544 --> 00:08:54.542 amines and you know changes that

NOTE Confidence: 0.848411123333333

00:08:54.542 --> 00:08:56.568 increase carcinogenesis at the level

NOTE Confidence: 0.848411123333333

00:08:56.568 --> 00:09:00.260 of the colon and in the colony sites.

NOTE Confidence: 0.848411123333333

00:09:00.260 --> 00:09:03.356 So few years later there were also articles

NOTE Confidence: 0.848411123333333

00:09:03.356 --> 00:09:05.760 that started to put together the role

NOTE Confidence: 0.848411123333333

00:09:05.760 --> 00:09:08.980 of the diet with the role of the microbiome,

NOTE Confidence: 0.848411123333333

00:09:08.980 --> 00:09:09.368 right?

NOTE Confidence: 0.848411123333333

00:09:09.368 --> 00:09:10.532 And we've seen.

NOTE Confidence: 0.848411123333333

00:09:10.532 --> 00:09:13.443 This on our group have also evaluated

NOTE Confidence: 0.848411123333333

00:09:13.443 --> 00:09:15.963 the potential link between the

NOTE Confidence: 0.848411123333333

00:09:15.963 --> 00:09:18.450 MICROBIUM and the cancer risk,

NOTE Confidence: 0.848411123333333

00:09:18.450 --> 00:09:21.816 so this article was one of the few first

NOTE Confidence: 0.848411123333333

00:09:21.816 --> 00:09:24.566 rather articles that started to look at

NOTE Confidence: 0.848411123333333

00:09:24.566 --> 00:09:27.929 the role of the microbiome and cancer,

NOTE Confidence: 0.848411123333333

00:09:27.930 --> 00:09:31.220 and this beautiful paper by the group

NOTE Confidence: 0.848411123333333

00:09:31.220 --> 00:09:33.642 at Pittsburgh presented data looking

NOTE Confidence: 0.848411123333333

00:09:33.642 --> 00:09:36.112 at the different they phylogenic

NOTE Confidence: 0.848411123333333

00:09:36.112 --> 00:09:38.624 differences in the gut microbiome

NOTE Confidence: 0.848411123333333

00:09:38.624 --> 00:09:40.560 between Africans from Africa.

NOTE Confidence: 0.848411123333333

00:09:40.560 --> 00:09:42.684 That's on the left panel and

NOTE Confidence: 0.848411123333333

00:09:42.684 --> 00:09:44.100 Africans from North America.

NOTE Confidence: 0.848411123333333

00:09:44.100 --> 00:09:47.702 So you know the classic African U.S.

NOTE Confidence: 0.848411123333333

00:09:47.702 --> 00:09:50.672 citizens so you can see that even

NOTE Confidence: 0.848411123333333

00:09:50.672 --> 00:09:53.297 if we don't know that much about,

NOTE Confidence: 0.848411123333333

00:09:53.300 --> 00:09:55.380 you know these statistics, right?

NOTE Confidence: 0.848411123333333

00:09:55.380 --> 00:09:57.732 You can see that the colors right of

NOTE Confidence: 0.848411123333333

00:09:57.732 --> 00:09:59.878 these beautiful figures were different,

NOTE Confidence: 0.848411123333333

00:09:59.878 --> 00:10:00.340 right?

NOTE Confidence: 0.848411123333333

00:10:00.340 --> 00:10:03.098 So the Africans from Africa have it?

NOTE Confidence: 0.848411123333333

00:10:03.100 --> 00:10:06.190 How distinct microbiota as compared

NOTE Confidence: 0.848411123333333

00:10:06.190 --> 00:10:09.280 to the North American Africans?

NOTE Confidence: 0.848411123333333

00:10:09.280 --> 00:10:11.390 Right there African Americans rather.

NOTE Confidence: 0.848411123333333

00:10:11.390 --> 00:10:14.046 So and then you know when you look

NOTE Confidence: 0.848411123333333

00:10:14.046 --> 00:10:16.476 further down and he did and you look

NOTE Confidence: 0.848411123333333

00:10:16.476 --> 00:10:19.179 at you know what type of metabol I'm

NOTE Confidence: 0.848411123333333

00:10:19.179 --> 00:10:21.889 a metabolomics was present in the God

NOTE Confidence: 0.848411123333333

00:10:21.889 --> 00:10:25.102 from people that were in Africa and

NOTE Confidence: 0.848411123333333

00:10:25.102 --> 00:10:27.686 those North American African Americans.

NOTE Confidence: 0.848411123333333

00:10:27.686 --> 00:10:30.254 Not only was where the bacteria

NOTE Confidence: 0.848411123333333

00:10:30.254 --> 00:10:32.390 different but also the mandible.

NOTE Confidence: 0.848411123333333

00:10:32.390 --> 00:10:34.382 You know the type of metabolomics

NOTE Confidence: 0.848411123333333

00:10:34.382 --> 00:10:35.710 that that were present.

NOTE Confidence: 0.848411123333333

00:10:35.710 --> 00:10:37.230 So for instance he looked.

NOTE Confidence: 0.848411123333333

00:10:37.230 --> 00:10:38.838 He looked at short chain fatty

NOTE Confidence: 0.848411123333333

00:10:38.838 --> 00:10:40.663 acids and he looked also in bile

NOTE Confidence: 0.848411123333333

00:10:40.663 --> 00:10:42.055 acid and you can see that.

NOTE Confidence: 0.848411123333333

00:10:42.060 --> 00:10:45.448 Africans had a higher good short

NOTE Confidence: 0.848411123333333

00:10:45.448 --> 00:10:48.396 chain fatty acids versus the African

NOTE Confidence: 0.848411123333333

00:10:48.396 --> 00:10:50.786 Americans had more carcinogenic bile

NOTE Confidence: 0.848411123333333

00:10:50.786 --> 00:10:54.304 acid and you can see how the different

NOTE Confidence: 0.848411123333333

00:10:54.304 --> 00:10:56.785 compounds that he look at where

NOTE Confidence: 0.848411123333333

00:10:56.785 --> 00:10:59.599 higher Lee were present at a higher

NOTE Confidence: 0.848411123333333

00:10:59.600 --> 00:11:02.780 prevalence among individuals that had

NOTE Confidence: 0.848411123333333

00:11:02.780 --> 00:11:05.120 the microbiome was a distinct microbium.

NOTE Confidence: 0.848411123333333

00:11:05.120 --> 00:11:07.064 So we started looking.

NOTE Confidence: 0.848411123333333

00:11:07.064 --> 00:11:08.036 You know,

NOTE Confidence: 0.851543954

00:11:08.040 --> 00:11:11.706 of course, motivated by this group of

NOTE Confidence: 0.851543954

00:11:11.706 --> 00:11:13.944 investigators at Pittsburgh and some others.

NOTE Confidence: 0.851543954

00:11:13.950 --> 00:11:16.589 We started to evaluate not only the

NOTE Confidence: 0.851543954

00:11:16.589 --> 00:11:19.469 bacteria nor the microbiome composition,

NOTE Confidence: 0.851543954

00:11:19.470 --> 00:11:21.672 but also the jeans that are

NOTE Confidence: 0.851543954

00:11:21.672 --> 00:11:23.552 present because depending on the

NOTE Confidence: 0.851543954

00:11:23.552 --> 00:11:25.574 Organism that it's in the bowel,

NOTE Confidence: 0.851543954

00:11:25.580 --> 00:11:27.638 the jeans that are produced and the

NOTE Confidence: 0.851543954

00:11:27.638 --> 00:11:29.428 answer the proteins that are produced

NOTE Confidence: 0.851543954

00:11:29.428 --> 00:11:31.409 by the jeans and the specific genes

NOTE Confidence: 0.851543954

00:11:31.472 --> 00:11:33.341 that we can find that are bacterial

NOTE Confidence: 0.851543954

00:11:33.341 --> 00:11:36.160 genes may also modify the risk of having

NOTE Confidence: 0.851543954

00:11:36.160 --> 00:11:38.770 inflammation and the risk of cancer.

NOTE Confidence: 0.851543954

00:11:38.770 --> 00:11:41.486 So we started looking at this particular

NOTE Confidence: 0.851543954

00:11:41.486 --> 00:11:44.140 group of genes which are bacterial.

NOTE Confidence: 0.851543954

00:11:44.140 --> 00:11:47.038 Jeans specifically PKS,

NOTE Confidence: 0.851543954

00:11:47.038 --> 00:11:49.936 CTD and jealous,

NOTE Confidence: 0.851543954

00:11:49.940 --> 00:11:53.566 and eyes Ian such toxic necrosis factor

NOTE Confidence: 0.851543954

00:11:53.566 --> 00:11:55.760 necrotizing factor rather an USB,

NOTE Confidence: 0.851543954

00:11:55.760 --> 00:11:58.760 and you can see here is summary of what is

NOTE Confidence: 0.851543954

00:11:58.839 --> 00:12:01.989 the role of this particular bacterial genes,

NOTE Confidence: 0.851543954

00:12:01.990 --> 00:12:04.734 and our hypothesis was that in patients

NOTE Confidence: 0.851543954

00:12:04.734 --> 00:12:07.160 that have colorectal cancer had had

NOTE Confidence: 0.851543954

00:12:07.160 --> 00:12:09.512 colorectal cancer or those with polyps.

NOTE Confidence: 0.851543954

00:12:09.520 --> 00:12:11.431 We may see a difference not only

NOTE Confidence: 0.851543954

00:12:11.431 --> 00:12:12.980 in the bacterial composition,

NOTE Confidence: 0.851543954

00:12:12.980 --> 00:12:15.506 but also in the bacterial genes.

NOTE Confidence: 0.851543954

00:12:15.510 --> 00:12:17.730 And we set ourselves to do

NOTE Confidence: 0.851543954

00:12:17.730 --> 00:12:19.210 a series of experiments,

NOTE Confidence: 0.851543954

00:12:19.210 --> 00:12:21.634 and we published recently an you

NOTE Confidence: 0.851543954

00:12:21.634 --> 00:12:24.091 know from this group of of bacterial

NOTE Confidence: 0.851543954

00:12:24.091 --> 00:12:26.758 genes we were able to start to

NOTE Confidence: 0.851543954

00:12:26.758 --> 00:12:29.009 see some differences right?

NOTE Confidence: 0.851543954

00:12:29.010 --> 00:12:33.300 So I can show you here the USP was we saw,

NOTE Confidence: 0.851543954

00:12:33.300 --> 00:12:35.140 you know a small signal.

NOTE Confidence: 0.851543954

00:12:35.140 --> 00:12:37.978 We are repeating this sample and

NOTE Confidence: 0.851543954

00:12:37.978 --> 00:12:39.740 adding additional bacterial genes

NOTE Confidence: 0.851543954

00:12:39.740 --> 00:12:42.170 to try to understand whether or

NOTE Confidence: 0.851543954

00:12:42.170 --> 00:12:44.609 not you know is it bacterial.

NOTE Confidence: 0.851543954

00:12:44.610 --> 00:12:46.997 You know the the microbiome per say.

NOTE Confidence: 0.851543954

00:12:47.000 --> 00:12:49.457 Or it is are those bacterial genes,

NOTE Confidence: 0.851543954

00:12:49.460 --> 00:12:51.668 the ones that are really increasing the risk?

NOTE Confidence: 0.851543954

00:12:51.670 --> 00:12:54.058 So there's a lot more that

NOTE Confidence: 0.851543954

00:12:54.058 --> 00:12:56.250 is happening in this arena.

NOTE Confidence: 0.851543954

00:12:56.250 --> 00:12:57.027 But you know,

NOTE Confidence: 0.851543954

00:12:57.027 --> 00:12:58.840 I'm a physician scientist and you know

NOTE Confidence: 0.851543954

00:12:58.894 --> 00:13:00.637 you always have to think about you.

NOTE Confidence: 0.851543954

00:13:00.640 --> 00:13:03.146 Know if we can modify certain things

NOTE Confidence: 0.851543954

00:13:03.146 --> 00:13:06.107 like you know what we eat and if we're

NOTE Confidence: 0.851543954

00:13:06.107 --> 00:13:08.635 able to show that a particular dysbiosis

NOTE Confidence: 0.851543954

00:13:08.635 --> 00:13:11.547 in your God is associated with you.

NOTE Confidence: 0.851543954

00:13:11.550 --> 00:13:13.338 Know with the inflammation

NOTE Confidence: 0.851543954

00:13:13.338 --> 00:13:15.573 and changes in the genome,

NOTE Confidence: 0.851543954

00:13:15.580 --> 00:13:17.148 then you know we'll work on that.

NOTE Confidence: 0.851543954

00:13:17.150 --> 00:13:19.286 But there are things that are like low,

NOTE Confidence: 0.851543954

00:13:19.290 --> 00:13:19.804 you know,

NOTE Confidence: 0.851543954

00:13:19.804 --> 00:13:21.860 low hanging fruits and you know access to

NOTE Confidence: 0.851543954

00:13:21.918 --> 00:13:23.990 healthcare which we all know that it has.

NOTE Confidence: 0.851543954

00:13:23.990 --> 00:13:25.698 If it's you know,

NOTE Confidence: 0.851543954

00:13:25.698 --> 00:13:28.132 huge impact in this part is that

NOTE Confidence: 0.851543954

00:13:28.132 --> 00:13:29.284 we have been observing,

NOTE Confidence: 0.851543954

00:13:29.290 --> 00:13:30.210 including disparities,

NOTE Confidence: 0.851543954

00:13:30.210 --> 00:13:32.970 that we see in colorectal cancer.

NOTE Confidence: 0.851543954

00:13:32.970 --> 00:13:36.785 I said it help collaborating with them

NOTE Confidence: 0.851543954

00:13:36.790 --> 00:13:38.760 several investigators at the University

NOTE Confidence: 0.851543954

00:13:38.760 --> 00:13:41.176 of Puerto Rico that were focusing

NOTE Confidence: 0.851543954

00:13:41.176 --> 00:13:43.444 on delays in access to healthcare.

NOTE Confidence: 0.851543954

00:13:43.450 --> 00:13:45.250 So basically there are three main

NOTE Confidence: 0.851543954

00:13:45.250 --> 00:13:47.420 belays that that could occur that could.

NOTE Confidence: 0.851543954

00:13:47.420 --> 00:13:51.088 Interfere with the outcome of a patient,

NOTE Confidence: 0.851543954

00:13:51.090 --> 00:13:53.470 so you have what's called primary delay.

NOTE Confidence: 0.851543954

00:13:53.470 --> 00:13:55.465 Secondary Lillian tertiary deley so

NOTE Confidence: 0.851543954

00:13:55.465 --> 00:13:58.121 primary deley is from this the time

NOTE Confidence: 0.851543954

00:13:58.121 --> 00:14:00.193 that the patient has a symptom to

NOTE Confidence: 0.851543954

00:14:00.193 --> 00:14:02.672 the first contact with the primary

NOTE Confidence: 0.851543954

00:14:02.672 --> 00:14:03.518 care physician.

NOTE Confidence: 0.851543954

00:14:03.520 --> 00:14:05.860 Secondary dilay is from the first

NOTE Confidence: 0.851543954

00:14:05.860 --> 00:14:07.879 contact with that primary care

NOTE Confidence: 0.851543954

00:14:07.879 --> 00:14:09.799 physician to a confirmed diagnosis

NOTE Confidence: 0.851543954

00:14:09.799 --> 00:14:12.000 and then the third chair is.

NOTE Confidence: 0.851543954

00:14:12.000 --> 00:14:14.723 Delay is the time from their confirm

NOTE Confidence: 0.851543954

00:14:14.723 --> 00:14:17.427 diagnosis to the start of treatment

NOTE Confidence: 0.851543954

00:14:17.427 --> 00:14:19.472 an disparities in any of these

NOTE Confidence: 0.851543954

00:14:19.472 --> 00:14:21.080 areas right between one group of

NOTE Confidence: 0.8783454675

00:14:21.145 --> 00:14:23.329 patients and another group of patients,

NOTE Confidence: 0.8783454675

00:14:23.330 --> 00:14:26.200 or or across segments of the population

NOTE Confidence: 0.8783454675

00:14:26.200 --> 00:14:28.717 like rural versus urban or people

NOTE Confidence: 0.8783454675

00:14:28.717 --> 00:14:31.135 you know with Medicaid versus those

NOTE Confidence: 0.8783454675

00:14:31.135 --> 00:14:33.629 that are on commercial insurance.

NOTE Confidence: 0.8783454675

00:14:33.630 --> 00:14:36.456 Will result in differences in outcomes,

NOTE Confidence: 0.8783454675

00:14:36.460 --> 00:14:39.113 and in fact that was the hypothesis

NOTE Confidence: 0.8783454675

00:14:39.113 --> 00:14:41.986 ANAN we we examined my patients with

NOTE Confidence: 0.8783454675

00:14:41.986 --> 00:14:44.224 colorectal cancer and this was published

NOTE Confidence: 0.8783454675

00:14:44.224 --> 00:14:46.943 a few years ago where we saw in this

NOTE Confidence: 0.8783454675

00:14:46.943 --> 00:14:49.134 graph we were looking at relative

NOTE Confidence: 0.8783454675

00:14:49.134 --> 00:14:51.676 survival 1/3 and five years of colorectal

NOTE Confidence: 0.8783454675

00:14:51.680 --> 00:14:54.536 cancer among Hispanics from Puerto Rico.

NOTE Confidence: 0.8783454675

00:14:54.540 --> 00:14:56.892 An in orange you can see in the

NOTE Confidence: 0.8783454675

00:14:56.892 --> 00:14:59.793 top line you can see the relative

NOTE Confidence: 0.8783454675

00:14:59.793 --> 00:15:02.033 survival among individuals that were

NOTE Confidence: 0.8783454675

00:15:02.109 --> 00:15:04.019 on a private insurance an.

NOTE Confidence: 0.8783454675

00:15:04.020 --> 00:15:06.028 On the Gray or the second line you

NOTE Confidence: 0.8783454675

00:15:06.028 --> 00:15:07.970 can see their relative survival

NOTE Confidence: 0.8783454675

00:15:07.970 --> 00:15:10.270 for individuals that diagnosed with

NOTE Confidence: 0.8783454675

00:15:10.270 --> 00:15:12.029 colorectal cancer at different,

NOTE Confidence: 0.8783454675

00:15:12.030 --> 00:15:14.207 you know time points and you can

NOTE Confidence: 0.8783454675

00:15:14.207 --> 00:15:16.740 see that at 1/3 and also five years,

NOTE Confidence: 0.8783454675

00:15:16.740 --> 00:15:19.820 this survival associated, you know,

NOTE Confidence: 0.8783454675

00:15:19.820 --> 00:15:21.878 seen and observed among people that

NOTE Confidence: 0.8783454675

00:15:21.878 --> 00:15:24.319 had the public insurance was lower as

NOTE Confidence: 0.8783454675

00:15:24.319 --> 00:15:25.999 compared to the private insurance,

NOTE Confidence: 0.8783454675

00:15:26.000 --> 00:15:28.776 and this was adjusted for buy as many

NOTE Confidence: 0.8783454675

00:15:28.776 --> 00:15:31.638 factors as we could possibly adjust for.

NOTE Confidence: 0.8783454675

00:15:31.640 --> 00:15:33.950 But of course lifetime exposure.

NOTE Confidence: 0.8783454675

00:15:33.950 --> 00:15:36.407 Right to die it to the place that you

NOTE Confidence: 0.8783454675

00:15:36.407 --> 00:15:39.279 were raised to the community that you leave.

NOTE Confidence: 0.8783454675

00:15:39.280 --> 00:15:40.860 We cannot account for that,

NOTE Confidence: 0.8783454675

00:15:40.860 --> 00:15:42.757 so you know there might be things

NOTE Confidence: 0.8783454675

00:15:42.757 --> 00:15:44.655 that occur much before we're able

NOTE Confidence: 0.8783454675

00:15:44.655 --> 00:15:46.370 to classify patients according to

NOTE Confidence: 0.8783454675

00:15:46.370 --> 00:15:48.467 the health insurance that we can

NOTE Confidence: 0.8783454675

00:15:48.467 --> 00:15:49.484 actually not measure.

NOTE Confidence: 0.8783454675

00:15:49.490 --> 00:15:52.700 That is beyond their the.

NOTE Confidence: 0.8783454675

00:15:52.700 --> 00:15:54.712 Environmental variables we couldn't.

NOTE Confidence: 0.8783454675

00:15:54.712 --> 00:15:56.724 We can't control for,

NOTE Confidence: 0.8783454675

00:15:56.730 --> 00:15:58.930 so I want to finalize.

NOTE Confidence: 0.8783454675

00:15:58.930 --> 00:16:01.297 You know, I now focus on an area that

NOTE Confidence: 0.8783454675

00:16:01.297 --> 00:16:03.838 is extremely important, which is.

NOTE Confidence: 0.8783454675

00:16:03.838 --> 00:16:06.058 Can we modify the genes?

NOTE Confidence: 0.8783454675

00:16:06.060 --> 00:16:07.416 Can we blame the genes right?

NOTE Confidence: 0.8783454675

00:16:07.420 --> 00:16:09.568 And when you think about Hispanics,

NOTE Confidence: 0.8783454675

00:16:09.570 --> 00:16:11.748 Hispanics, we are a group of

NOTE Confidence: 0.8783454675

00:16:11.748 --> 00:16:13.920 individuals that are a mix race.

NOTE Confidence: 0.8783454675

00:16:13.920 --> 00:16:16.506 Hispanics have a mixture on depending

NOTE Confidence: 0.8783454675

00:16:16.506 --> 00:16:19.013 where you find the Latinos in

NOTE Confidence: 0.8783454675

00:16:19.013 --> 00:16:21.470 the US or or in Latin America.

NOTE Confidence: 0.8783454675

00:16:21.470 --> 00:16:23.220 The composition of our genes

NOTE Confidence: 0.8783454675

00:16:23.220 --> 00:16:23.920 berries dramatically.

NOTE Confidence: 0.8783454675

00:16:23.920 --> 00:16:27.000 So if you go to places like in the Caribbean,

NOTE Confidence: 0.8783454675

00:16:27.000 --> 00:16:29.632 20% of our genes are from African ancestry

NOTE Confidence: 0.8783454675

00:16:29.632 --> 00:16:32.172 and in fact I did genomic ancestry and

NOTE Confidence: 0.8783454675

00:16:32.172 --> 00:16:34.928 I have 14 and you know if you go to.

NOTE Confidence: 0.8783454675

00:16:34.930 --> 00:16:36.220 South America there places that

NOTE Confidence: 0.8783454675

00:16:36.220 --> 00:16:38.050 most of the genes are Europeans,

NOTE Confidence: 0.8783454675

00:16:38.050 --> 00:16:40.258 but there are places where there

NOTE Confidence: 0.8783454675

00:16:40.258 --> 00:16:42.479 is a significant percentage of the

NOTE Confidence: 0.8783454675

00:16:42.479 --> 00:16:44.189 genes that come from Amerindian,

NOTE Confidence: 0.8783454675

00:16:44.190 --> 00:16:46.290 so places like in Central America and

NOTE Confidence: 0.8783454675

00:16:46.290 --> 00:16:48.688 and some areas in South America as well.

NOTE Confidence: 0.8783454675

00:16:48.690 --> 00:16:52.758 So when the TSJ it started,

NOTE Confidence: 0.8783454675

00:16:52.760 --> 00:16:55.016 you know years back now and

NOTE Confidence: 0.8783454675

00:16:55.016 --> 00:16:56.890 this was published years ago.

NOTE Confidence: 0.8783454675

00:16:56.890 --> 00:16:59.410 Yeah, as part of the Cancer Genome Atlas,

NOTE Confidence: 0.8783454675

00:16:59.410 --> 00:17:00.964 one of the questions that we

NOTE Confidence: 0.8783454675

00:17:00.964 --> 00:17:02.670 had and we had hoped for,

NOTE Confidence: 0.8783454675

00:17:02.670 --> 00:17:04.430 was that when this samples

NOTE Confidence: 0.8783454675

00:17:04.430 --> 00:17:05.838 the tumor samples were.

NOTE Confidence: 0.8783454675

00:17:05.840 --> 00:17:08.031 We're going to be analyzed that there

NOTE Confidence: 0.8783454675

00:17:08.031 --> 00:17:10.004 would be good representation from

NOTE Confidence: 0.8783454675

00:17:10.004 --> 00:17:12.419 different racial and ethnic groups,

NOTE Confidence: 0.8783454675

00:17:12.420 --> 00:17:15.130 and we all know now that that's not the case.

NOTE Confidence: 0.8783454675

00:17:15.130 --> 00:17:17.860 So this is basically for colorectal cancer.

NOTE Confidence: 0.8783454675

00:17:17.860 --> 00:17:20.849 There was no data on Hispanics from

NOTE Confidence: 0.8783454675

00:17:20.849 --> 00:17:23.756 you know that were included when

NOTE Confidence: 0.8783454675

00:17:23.756 --> 00:17:25.340 they evaluated colorectal cancer,

NOTE Confidence: 0.84933018875

00:17:25.340 --> 00:17:28.245 but you know, overall we learned that

NOTE Confidence: 0.84933018875

00:17:28.245 --> 00:17:31.012 16% of the tumors were hyper mutated and

NOTE Confidence: 0.84933018875

00:17:31.012 --> 00:17:33.323 and there was no molecular difference

NOTE Confidence: 0.84933018875

00:17:33.323 --> 00:17:36.193 when we look at rectal cancer rectal.

NOTE Confidence: 0.84933018875

00:17:36.200 --> 00:17:37.585 You know cancer in direct

NOTE Confidence: 0.84933018875

00:17:37.585 --> 00:17:39.360 numbers is cancer in the colon.

NOTE Confidence: 0.84933018875

00:17:39.360 --> 00:17:42.536 And of course you know later on papers

NOTE Confidence: 0.84933018875

00:17:42.536 --> 00:17:45.360 were published where you know we saw the,

NOTE Confidence: 0.84933018875

00:17:45.360 --> 00:17:47.736 you know the differences in the

NOTE Confidence: 0.84933018875

00:17:47.736 --> 00:17:50.000 percentage of tumors that came

NOTE Confidence: 0.84933018875

00:17:50.000 --> 00:17:51.960 from individuals from minorities.

NOTE Confidence: 0.84933018875

00:17:51.960 --> 00:17:54.360 Both racial an Hispanic minority.

NOTE Confidence: 0.84933018875

00:17:54.360 --> 00:17:56.040 So of course, you know we need

NOTE Confidence: 0.84933018875

00:17:56.040 --> 00:17:57.668 to continue to collect my data.

NOTE Confidence: 0.84933018875

00:17:57.670 --> 00:17:59.931 There's a lot of great efforts that

NOTE Confidence: 0.84933018875

00:17:59.931 --> 00:18:02.127 I applaud many of the institutions

NOTE Confidence: 0.84933018875

00:18:02.127 --> 00:18:04.030 and including the NIH, NCI,

NOTE Confidence: 0.84933018875

00:18:04.030 --> 00:18:05.780 and some other, you know,

NOTE Confidence: 0.84933018875

00:18:05.780 --> 00:18:07.636 large populations like the.

NOTE Confidence: 0.84933018875

00:18:07.636 --> 00:18:09.956 Breaking Cancer Society a CRM,

NOTE Confidence: 0.84933018875

00:18:09.960 --> 00:18:11.875 others that have now started

NOTE Confidence: 0.84933018875

00:18:11.875 --> 00:18:13.024 funding like that,

NOTE Confidence: 0.84933018875

00:18:13.030 --> 00:18:15.390 you know as part of the up the effort to

NOTE Confidence: 0.84933018875

00:18:15.450 --> 00:18:17.868 try to understand tumors from minorities,

NOTE Confidence: 0.84933018875

00:18:17.870 --> 00:18:19.755 some including the Genie project

NOTE Confidence: 0.84933018875

00:18:19.755 --> 00:18:22.574 that I'm sure that you guys are

NOTE Confidence: 0.84933018875

00:18:22.574 --> 00:18:24.729 also information are involved with.

NOTE Confidence: 0.84933018875

00:18:24.730 --> 00:18:27.873 So this was a publication we've had

NOTE Confidence: 0.84933018875

00:18:27.873 --> 00:18:31.607 a few years ago doing a whole genome

NOTE Confidence: 0.84933018875

00:18:31.610 --> 00:18:33.550 sequencing for patients with colorectal

NOTE Confidence: 0.84933018875

00:18:33.550 --> 00:18:35.904 cancer data from the Puerto Rican

NOTE Confidence: 0.84933018875

00:18:35.904 --> 00:18:38.034 Hispanic was included in this server.

NOTE Confidence: 0.84933018875

00:18:38.040 --> 00:18:39.300 A fifth of all.

NOTE Confidence: 0.84933018875

00:18:39.300 --> 00:18:40.875 Hispanics were from Puerto Rico

NOTE Confidence: 0.84933018875

00:18:40.875 --> 00:18:43.285 and you can see that we were able

NOTE Confidence: 0.84933018875

00:18:43.285 --> 00:18:44.840 to replicate some of the GI.

NOTE Confidence: 0.84933018875

00:18:44.840 --> 00:18:46.880 You know the slaves that were

NOTE Confidence: 0.84933018875

00:18:46.880 --> 00:18:48.790 seen in non Hispanic groups,

NOTE Confidence: 0.84933018875

00:18:48.790 --> 00:18:50.477 but there were some that were only

NOTE Confidence: 0.84933018875

00:18:50.477 --> 00:18:52.290 pressing in or his family community.

NOTE Confidence: 0.84933018875

00:18:52.290 --> 00:18:54.468 So again there are some differences

NOTE Confidence: 0.84933018875

00:18:54.468 --> 00:18:57.289 that may might be drivers of this is,

NOTE Confidence: 0.84933018875

00:18:57.290 --> 00:18:59.838 but there's still a lot to do.

NOTE Confidence: 0.84933018875

00:18:59.840 --> 00:19:01.880 We started evaluating this

NOTE Confidence: 0.84933018875

00:19:01.880 --> 00:19:04.430 somatic that was German profile.

NOTE Confidence: 0.84933018875

00:19:04.430 --> 00:19:06.570 We also started violating this

NOTE Confidence: 0.84933018875

00:19:06.570 --> 00:19:08.282 melodic profile of Latinos

NOTE Confidence: 0.84933018875

00:19:08.282 --> 00:19:10.299 with colorectal cancer and.

NOTE Confidence: 0.84933018875

00:19:10.300 --> 00:19:12.094 This is the first publication we

NOTE Confidence: 0.84933018875

00:19:12.094 --> 00:19:13.999 had years back and now I have.

NOTE Confidence: 0.84933018875

00:19:14.000 --> 00:19:15.792 We have more recent data and I'm

NOTE Confidence: 0.84933018875

00:19:15.792 --> 00:19:17.901 going to share with you and the first

NOTE Confidence: 0.84933018875

00:19:17.901 --> 00:19:20.061 thing we notice was that Puerto Rican

NOTE Confidence: 0.84933018875

00:19:20.061 --> 00:19:21.697 Hispanic with colorectal cancer.

NOTE Confidence: 0.84933018875

00:19:21.700 --> 00:19:24.128 Those tumors were not.

NOTE Confidence: 0.84933018875

00:19:24.130 --> 00:19:25.318 No, we're not.

NOTE Confidence: 0.84933018875

00:19:25.318 --> 00:19:28.330 You know, we're not similar in several.

NOTE Confidence: 0.84933018875

00:19:28.330 --> 00:19:31.330 You know? Key biomolecular markers,

NOTE Confidence: 0.84933018875

00:19:31.330 --> 00:19:33.590 like you know, microsatellite instability.

NOTE Confidence: 0.84933018875

00:19:33.590 --> 00:19:35.042 Right now it is.

NOTE Confidence: 0.84933018875

00:19:35.042 --> 00:19:38.677 We know that MSI is so important because

NOTE Confidence: 0.84933018875

00:19:38.677 --> 00:19:42.757 it really defines a phenotype that

NOTE Confidence: 0.84933018875

00:19:42.757 --> 00:19:45.890 responds beautifully to certain agents,

NOTE Confidence: 0.84933018875

00:19:45.890 --> 00:19:46.298 right?

NOTE Confidence: 0.84933018875

00:19:46.298 --> 00:19:47.114 Like immunotherapy.

NOTE Confidence: 0.84933018875

00:19:47.114 --> 00:19:48.746 So in our regulation,

NOTE Confidence: 0.84933018875

00:19:48.750 --> 00:19:50.256 we started seeing that our patients,

NOTE Confidence: 0.84933018875

00:19:50.260 --> 00:19:51.154 you know,

NOTE Confidence: 0.84933018875

00:19:51.154 --> 00:19:53.389 had very little microsatellite instability.

NOTE Confidence: 0.84933018875

00:19:53.390 --> 00:19:55.460 And when you look at the.

NOTE Confidence: 0.84933018875

00:19:55.460 --> 00:19:58.365 CPG Island Middle Asian phenotype was also,

NOTE Confidence: 0.84933018875

00:19:58.370 --> 00:19:59.246 you know,

NOTE Confidence: 0.84933018875

00:19:59.246 --> 00:20:01.874 lower as compared to non Hispanic

NOTE Confidence: 0.84933018875

00:20:01.874 --> 00:20:04.504 whites and also are African American.

NOTE Confidence: 0.84933018875

00:20:04.504 --> 00:20:07.192 So are tumors were little bit

NOTE Confidence: 0.84933018875

00:20:07.192 --> 00:20:09.839 different so we decided in the last

NOTE Confidence: 0.84933018875

00:20:09.839 --> 00:20:12.164 three years we decided to replicate

NOTE Confidence: 0.84933018875

00:20:12.164 --> 00:20:14.678 this effort and now with the

NOTE Confidence: 0.84933018875

00:20:14.678 --> 00:20:17.113 availability of commercial testing an

NOTE Confidence: 0.84933018875

00:20:17.113 --> 00:20:19.768 in several organizations that have

NOTE Confidence: 0.84933018875

00:20:19.768 --> 00:20:22.289 this information publicly available,

NOTE Confidence: 0.84933018875

00:20:22.290 --> 00:20:24.282 we conducted a an analysis that

NOTE Confidence: 0.84933018875

00:20:24.282 --> 00:20:26.300 was just probably not published.

NOTE Confidence: 0.84933018875

00:20:26.300 --> 00:20:28.652 Was just a presented at the

NOTE Confidence: 0.84933018875

00:20:28.652 --> 00:20:29.828 ACR annual meeting.

NOTE Confidence: 0.84933018875

00:20:29.830 --> 00:20:32.620 Trying to have better understanding a

NOTE Confidence: 0.84933018875

00:20:32.620 --> 00:20:35.441 better grasp of those actionable somatic

NOTE Confidence: 0.84933018875

00:20:35.441 --> 00:20:38.969 mutations that are key now of what we

NOTE Confidence: 0.84933018875

00:20:39.051 --> 00:20:41.806 all calls precision oncology right?

NOTE Confidence: 0.893127663333333

00:20:41.810 --> 00:20:44.930 When you think about large institutions,

NOTE Confidence: 0.893127663333333

00:20:44.930 --> 00:20:46.662 not minorities serving institutions,

NOTE Confidence: 0.893127663333333

00:20:46.662 --> 00:20:48.827 but those that serve other.

NOTE Confidence: 0.893127663333333

00:20:48.830 --> 00:20:51.165 You know non minority communities

NOTE Confidence: 0.893127663333333

00:20:51.165 --> 00:20:53.500 access to precision oncology within

NOTE Confidence: 0.893127663333333

00:20:53.569 --> 00:20:55.599 the framework of patient care.

NOTE Confidence: 0.893127663333333

00:20:55.600 --> 00:20:56.414 It's routine.

NOTE Confidence: 0.893127663333333

00:20:56.414 --> 00:20:58.449 However, when you look at,

NOTE Confidence: 0.893127663333333

00:20:58.450 --> 00:21:00.940 you know smaller centers community.

NOTE Confidence: 0.893127663333333

00:21:00.940 --> 00:21:02.700 Hospitals or even you know,

NOTE Confidence: 0.893127663333333

00:21:02.700 --> 00:21:03.891 minorities every institution.

NOTE Confidence: 0.893127663333333

00:21:03.891 --> 00:21:05.876 If this is something that

NOTE Confidence: 0.893127663333333

00:21:05.876 --> 00:21:07.250 it's starting to occur,

NOTE Confidence: 0.893127663333333

00:21:07.250 --> 00:21:09.812 and thanks to the technology that now

NOTE Confidence: 0.893127663333333

00:21:09.812 --> 00:21:12.580 has become more financially accessible,

NOTE Confidence: 0.893127663333333

00:21:12.580 --> 00:21:14.918 we're now being able to incorporate this,

NOTE Confidence: 0.893127663333333

00:21:14.920 --> 00:21:18.130 you know. River care for patients?

NOTE Confidence: 0.893127663333333

00:21:18.130 --> 00:21:19.755 Then why is this important?

NOTE Confidence: 0.893127663333333

00:21:19.760 --> 00:21:21.052 Because there are molecularly

NOTE Confidence: 0.893127663333333

00:21:21.052 --> 00:21:22.667 targeted therapies that we have

NOTE Confidence: 0.893127663333333

00:21:22.667 --> 00:21:24.366 seen that not only in GI cancer,

NOTE Confidence: 0.893127663333333

00:21:24.370 --> 00:21:26.610 but you know in non squamous

NOTE Confidence: 0.893127663333333

00:21:26.610 --> 00:21:27.630 cell lung cancer.

NOTE Confidence: 0.893127663333333

00:21:27.630 --> 00:21:30.372 And I'm just showing you some of the

NOTE Confidence: 0.893127663333333

00:21:30.372 --> 00:21:32.298 key articles that actually change the

NOTE Confidence: 0.893127663333333

00:21:32.298 --> 00:21:34.829 way that we practice medicine nowadays.

NOTE Confidence: 0.893127663333333

00:21:34.830 --> 00:21:36.982 So like just zoom up for her two

NOTE Confidence: 0.893127663333333

00:21:36.982 --> 00:21:38.659 positive and you can see right?

NOTE Confidence: 0.893127663333333

00:21:38.660 --> 00:21:41.824 Of course for the BRAF mutated Melanoma,

NOTE Confidence: 0.893127663333333

00:21:41.830 --> 00:21:44.014 which now we've seen some other tumors.

NOTE Confidence: 0.893127663333333

00:21:44.020 --> 00:21:47.120 So it's key because the.

NOTE Confidence: 0.893127663333333

00:21:47.120 --> 00:21:50.220 Pharmacol from the pharmacogenomics

NOTE Confidence: 0.893127663333333

00:21:50.220 --> 00:21:52.545 are being studied,

NOTE Confidence: 0.893127663333333

00:21:52.550 --> 00:21:55.376 but are almost like a secondary.

NOTE Confidence: 0.893127663333333

00:21:55.380 --> 00:21:58.326 It doesn't start with the pharmacogenomics,

NOTE Confidence: 0.893127663333333

00:21:58.330 --> 00:22:00.570 it starts with the farmac

NOTE Confidence: 0.893127663333333

00:22:00.570 --> 00:22:02.362 pharmacodynamics of one group,

NOTE Confidence: 0.893127663333333

00:22:02.370 --> 00:22:03.770 so this is key.

NOTE Confidence: 0.893127663333333

00:22:03.770 --> 00:22:06.461 Because if we don't know how prevalent

NOTE Confidence: 0.893127663333333

00:22:06.461 --> 00:22:09.527 are those biomarkers where we have?

NOTE Confidence: 0.893127663333333

00:22:09.530 --> 00:22:11.050 Therapies that we can use.

NOTE Confidence: 0.893127663333333

00:22:11.050 --> 00:22:12.685 Then you know our patients

NOTE Confidence: 0.893127663333333

00:22:12.685 --> 00:22:13.666 will never benefit.

NOTE Confidence: 0.893127663333333

00:22:13.670 --> 00:22:15.534 So the first thing that we have to

NOTE Confidence: 0.893127663333333

00:22:15.534 --> 00:22:17.780 do is to try to understand and we

NOTE Confidence: 0.893127663333333

00:22:17.780 --> 00:22:19.886 actually were able to do a this.

NOTE Confidence: 0.893127663333333

00:22:19.886 --> 00:22:22.637 This analysis which I just alluded to

NOTE Confidence: 0.893127663333333

00:22:22.637 --> 00:22:26.033 and that was burned there is here and

NOTE Confidence: 0.893127663333333

00:22:26.033 --> 00:22:28.246 we evaluated close to 1929 hundred

NOTE Confidence: 0.893127663333333

00:22:28.246 --> 00:22:30.394 thirty one individuals and you can

NOTE Confidence: 0.893127663333333

00:22:30.394 --> 00:22:33.157 see here the distribution of the tumors,

NOTE Confidence: 0.893127663333333

00:22:33.160 --> 00:22:34.030 and you know,

NOTE Confidence: 0.893127663333333

00:22:34.030 --> 00:22:35.724 we we look at, you know,

NOTE Confidence: 0.893127663333333

00:22:35.724 --> 00:22:38.144 the how many most of you know 60% male,

NOTE Confidence: 0.893127663333333

00:22:38.144 --> 00:22:40.416 I mean female and you can see the.

NOTE Confidence: 0.893127663333333

00:22:40.420 --> 00:22:41.832 Age distribution for the

NOTE Confidence: 0.893127663333333

00:22:41.832 --> 00:22:43.244 people that we evaluated.

NOTE Confidence: 0.893127663333333

00:22:43.250 --> 00:22:44.880 We used commercially available testing

NOTE Confidence: 0.893127663333333

00:22:44.880 --> 00:22:47.339 and we did it in collaboration with

NOTE Confidence: 0.893127663333333

00:22:47.339 --> 00:22:49.264 the Precision Oncology Alliance and

NOTE Confidence: 0.893127663333333

00:22:49.264 --> 00:22:51.587 we look at actionable mutations

NOTE Confidence: 0.893127663333333

00:22:51.587 --> 00:22:53.799 specifically for colorectal cancer,

NOTE Confidence: 0.893127663333333

00:22:53.800 --> 00:22:55.856 and you can see you know if you

NOTE Confidence: 0.893127663333333

00:22:55.856 --> 00:22:57.936 look at your patient population.

NOTE Confidence: 0.893127663333333

00:22:57.936 --> 00:22:59.764 We saw, you know,

NOTE Confidence: 0.893127663333333

00:22:59.764 --> 00:23:01.724 find different prevalence of some

NOTE Confidence: 0.893127663333333

00:23:01.724 --> 00:23:04.160 of the key oncogenes and some

NOTE Confidence: 0.893127663333333

00:23:04.160 --> 00:23:05.736 of the key markers.

NOTE Confidence: 0.893127663333333

00:23:05.740 --> 00:23:06.763 So for instance,

NOTE Confidence: 0.893127663333333

00:23:06.763 --> 00:23:08.468 video one was only present

NOTE Confidence: 0.893127663333333

00:23:08.468 --> 00:23:11.110 in 1% of our patients MSI.

NOTE Confidence: 0.893127663333333

00:23:11.110 --> 00:23:14.428 In 2%, which is much less than other groups,

NOTE Confidence: 0.893127663333333

00:23:14.430 --> 00:23:16.420 you can see how Keras,

NOTE Confidence: 0.893127663333333

00:23:16.420 --> 00:23:19.040 which entered be rough,

NOTE Confidence: 0.893127663333333

00:23:19.040 --> 00:23:21.660 was also highly prevalent.

NOTE Confidence: 0.893127663333333

00:23:21.660 --> 00:23:24.164 So what we did was that we compare

NOTE Confidence: 0.893127663333333

00:23:24.164 --> 00:23:26.766 our data from patients data that

NOTE Confidence: 0.893127663333333

00:23:26.766 --> 00:23:29.136 was available for non Hispanic

NOTE Confidence: 0.893127663333333

00:23:29.136 --> 00:23:30.823 colorectal cancer tumors that

NOTE Confidence: 0.893127663333333

00:23:30.823 --> 00:23:33.476 were reported as part of the PGA.

NOTE Confidence: 0.893127663333333

00:23:33.480 --> 00:23:36.296 And here you can see the actionable genes.

NOTE Confidence: 0.893127663333333

00:23:36.300 --> 00:23:39.100 Queiroz be rough interests or

NOTE Confidence: 0.893127663333333

00:23:39.100 --> 00:23:41.340 her to Intrax Ann.

NOTE Confidence: 0.893127663333333

00:23:41.340 --> 00:23:44.412 You can see in green we have the

NOTE Confidence: 0.893127663333333

00:23:44.412 --> 00:23:46.631 Puerto Rican Hispanics and in

NOTE Confidence: 0.893127663333333

00:23:46.631 --> 00:23:49.349 blue we have the non Hispanic

NOTE Confidence: 0.893127663333333

00:23:49.349 --> 00:23:52.246 tumors from the TSJ and for some

NOTE Confidence: 0.893127663333333

00:23:52.246 --> 00:23:54.658 of the key oncogenes like Keras,

NOTE Confidence: 0.893127663333333

00:23:54.658 --> 00:23:57.172 ambera you can see that Hispanics

NOTE Confidence: 0.893127663333333

00:23:57.172 --> 00:23:59.642 from Puerto Rico who are more

NOTE Confidence: 0.893127663333333

00:23:59.642 --> 00:24:01.976 likely to present with mutations in

NOTE Confidence: 0.783615221304348

00:24:02.058 --> 00:24:03.969 this particular oncogenes.

NOTE Confidence: 0.783615221304348

00:24:03.970 --> 00:24:06.424 And that's terrible because then we

NOTE Confidence: 0.783615221304348

00:24:06.424 --> 00:24:10.291 have less access to some of the you know

NOTE Confidence: 0.783615221304348

00:24:10.291 --> 00:24:12.446 antibodies against EGFR for instance.

NOTE Confidence: 0.783615221304348

00:24:12.450 --> 00:24:16.386 This same thing, you know lack of certain

NOTE Confidence: 0.783615221304348

00:24:16.386 --> 00:24:19.276 biomarkers like PDL one or or Ms one.

NOTE Confidence: 0.783615221304348

00:24:19.280 --> 00:24:21.735 Among you know, this Hispanic

NOTE Confidence: 0.783615221304348

00:24:21.735 --> 00:24:24.190 community really also affects right?

NOTE Confidence: 0.783615221304348

00:24:24.190 --> 00:24:28.408 The availability of therapies to finalize.

NOTE Confidence: 0.783615221304348

00:24:28.410 --> 00:24:31.910 I want to very briefly show you some of

NOTE Confidence: 0.783615221304348

00:24:31.910 --> 00:24:34.575 the data that we have been working again

NOTE Confidence: 0.783615221304348

00:24:34.575 --> 00:24:37.374 with a group of collaborators, actions,

NOTE Confidence: 0.783615221304348

00:24:37.374 --> 00:24:40.070 collaborators from different places,

NOTE Confidence: 0.783615221304348

00:24:40.070 --> 00:24:42.176 including them rikidozan.

NOTE Confidence: 0.783615221304348

00:24:42.176 --> 00:24:42.878 Garner

NOTE Confidence: 0.8624329625

00:24:44.920 --> 00:24:47.384 from inside and now he's in New York,

NOTE Confidence: 0.8624329625

00:24:47.390 --> 00:24:50.316 so we actually look at African ancestry.

NOTE Confidence: 0.8624329625

00:24:50.320 --> 00:24:52.654 Why? Because we know that African

NOTE Confidence: 0.8624329625

00:24:52.654 --> 00:24:54.735 Americans have a higher risk

NOTE Confidence: 0.8624329625

00:24:54.735 --> 00:24:56.539 of having colorectal cancer.

NOTE Confidence: 0.8624329625

00:24:56.540 --> 00:24:59.408 They're having higher mortality as compared

NOTE Confidence: 0.8624329625

00:24:59.408 --> 00:25:02.338 to other non African American groups,

NOTE Confidence: 0.8624329625

00:25:02.338 --> 00:25:05.810 so we look at on the association

NOTE Confidence: 0.8624329625

00:25:05.902 --> 00:25:08.907 between having African ancestry in

NOTE Confidence: 0.8624329625

00:25:08.907 --> 00:25:11.912 Puerto Rican Hispanics and certain

NOTE Confidence: 0.8624329625

00:25:12.000 --> 00:25:15.310 phenotypes and also molecular markers.

NOTE Confidence: 0.8624329625

00:25:15.310 --> 00:25:17.206 In our patients with rectal cancer,

NOTE Confidence: 0.8624329625

00:25:17.210 --> 00:25:20.794 so we were able to identify that individuals

NOTE Confidence: 0.8624329625

00:25:20.794 --> 00:25:23.560 with African ancestry were more likely

NOTE Confidence: 0.8624329625

00:25:23.560 --> 00:25:26.115 to have tumors located in thatis.com.

NOTE Confidence: 0.8624329625

00:25:26.115 --> 00:25:28.390 So two times more likely than those

NOTE Confidence: 0.8624329625

00:25:28.390 --> 00:25:30.429 Puerto Ricans without African ancestry.

NOTE Confidence: 0.8624329625

00:25:30.430 --> 00:25:32.266 We also saw that the differentiation,

NOTE Confidence: 0.8624329625

00:25:32.270 --> 00:25:34.898 they weren't the tumor from Puerto

NOTE Confidence: 0.8624329625

00:25:34.898 --> 00:25:37.448 Rican's with higher African ancestry had

NOTE Confidence: 0.8624329625

00:25:37.448 --> 00:25:40.328 a higher likelihood of having a low to

NOTE Confidence: 0.8624329625

00:25:40.408 --> 00:25:43.380 moderate tumor difference differentiation.

NOTE Confidence: 0.8624329625

00:25:43.380 --> 00:25:44.772 And you know,

NOTE Confidence: 0.8624329625

00:25:44.772 --> 00:25:47.556 this might also contribute to the.

NOTE Confidence: 0.8624329625

00:25:47.560 --> 00:25:49.704 Observe increased mortality that

NOTE Confidence: 0.8624329625

00:25:49.704 --> 00:25:52.384 we observe in our population.

NOTE Confidence: 0.8624329625

00:25:52.390 --> 00:25:55.014 So to finalize and there's many more data

NOTE Confidence: 0.8624329625

00:25:55.014 --> 00:25:57.590 than we could discuss that may be asking

NOTE Confidence: 0.8624329625

00:25:57.590 --> 00:26:00.569 the QA I want to keep everyone in mind.

NOTE Confidence: 0.8624329625

00:26:00.570 --> 00:26:03.069 Keep everyone in mind that still the

NOTE Confidence: 0.8624329625

00:26:03.069 --> 00:26:05.776 number one tool that we have available

NOTE Confidence: 0.8624329625

00:26:05.776 --> 00:26:08.122 for you know the Christmas parties

NOTE Confidence: 0.8624329625

00:26:08.198 --> 00:26:10.738 is doing colorectal cancer screening.

NOTE Confidence: 0.8624329625

00:26:10.740 --> 00:26:14.359 Having access to die early diagnosis and

NOTE Confidence: 0.8624329625

00:26:14.359 --> 00:26:18.259 you know still to this day there still.

NOTE Confidence: 0.8624329625

00:26:18.260 --> 00:26:21.295 Differences in the optic of

NOTE Confidence: 0.8624329625

00:26:21.295 --> 00:26:23.116 colorectal cancer screening.

NOTE Confidence: 0.8624329625

00:26:23.120 --> 00:26:25.129 When you look at the different minorities

NOTE Confidence: 0.8624329625

00:26:25.129 --> 00:26:27.031 and racial groups and the same thing

NOTE Confidence: 0.8624329625

00:26:27.031 --> 00:26:28.777 we see in Puerto Rican Hispanics and

NOTE Confidence: 0.8624329625

00:26:28.777 --> 00:26:30.658 also you can see it in the US Hispanics

NOTE Confidence: 0.8624329625

00:26:30.660 --> 00:26:33.320 and because of the burden of disease

NOTE Confidence: 0.8624329625

00:26:33.320 --> 00:26:35.832 where we had 10% of our patients with

NOTE Confidence: 0.8624329625

00:26:35.832 --> 00:26:37.147 colorectal cancer in Puerto Rico,

NOTE Confidence: 0.8624329625

00:26:37.150 --> 00:26:40.222 were part of being diagnosed with

NOTE Confidence: 0.8624329625

00:26:40.222 --> 00:26:43.179 colorectal cancer before the age of 50.

NOTE Confidence: 0.8624329625

00:26:43.180 --> 00:26:45.378 We move with the Department of Health,

NOTE Confidence: 0.8624329625

00:26:45.380 --> 00:26:47.000 and in 2015 we.

NOTE Confidence: 0.8624329625

00:26:47.000 --> 00:26:50.010 Put together an administrative order to start

NOTE Confidence: 0.8624329625

00:26:50.010 --> 00:26:53.040 screening for colorectal cancer with feet.

NOTE Confidence: 0.8624329625

00:26:53.040 --> 00:26:55.763 So we have a national feed program

NOTE Confidence: 0.8624329625

00:26:55.763 --> 00:26:58.259 for people without family history to

NOTE Confidence: 0.8624329625

00:26:58.259 --> 00:27:01.185 start performing fit testing at age 40,

NOTE Confidence: 0.8624329625

00:27:01.190 --> 00:27:04.880 we were able to increase our rates to 65%,

NOTE Confidence: 0.8624329625

00:27:04.880 --> 00:27:07.050 which was the highest and that was

NOTE Confidence: 0.8624329625

00:27:07.050 --> 00:27:09.055 just before the Big Hurricane and

NOTE Confidence: 0.8624329625

00:27:09.055 --> 00:27:11.029 then copied came to Puerto Rico.

NOTE Confidence: 0.8624329625

00:27:11.030 --> 00:27:13.310 So now we have where's have started again,

NOTE Confidence: 0.8624329625

00:27:13.310 --> 00:27:14.290 you know,

NOTE Confidence: 0.8624329625

00:27:14.290 --> 00:27:16.740 to continue to promote screening.

NOTE Confidence: 0.8624329625

00:27:16.740 --> 00:27:17.817 So in summary.

NOTE Confidence: 0.8624329625

00:27:17.817 --> 00:27:20.330 We've been able to briefly discuss some

NOTE Confidence: 0.8624329625

00:27:20.403 --> 00:27:22.798 of the Asian associated disparities,

NOTE Confidence: 0.8624329625

00:27:22.800 --> 00:27:25.105 writing incidents and survival for

NOTE Confidence: 0.8624329625

00:27:25.105 --> 00:27:27.410 correct cancer among US Hispanics.

NOTE Confidence: 0.8624329625

00:27:27.410 --> 00:27:29.684 We have shown differences not only

NOTE Confidence: 0.8624329625

00:27:29.684 --> 00:27:31.900 between non Hispanics and Hispanics,

NOTE Confidence: 0.8624329625

00:27:31.900 --> 00:27:35.175 but also across the different

NOTE Confidence: 0.8624329625

00:27:35.175 --> 00:27:36.485 Hispanic subpopulations.

NOTE Confidence: 0.8624329625

00:27:36.490 --> 00:27:39.906 We discuss some of the differences are

NOTE Confidence: 0.8624329625

00:27:39.906 --> 00:27:43.499 at the molecular level that include key,

NOTE Confidence: 0.8624329625

00:27:43.500 --> 00:27:46.152 actionable biomarkers that are not present

NOTE Confidence: 0.8624329625

00:27:46.152 --> 00:27:48.929 or present depending on the biomarker.

NOTE Confidence: 0.8624329625

00:27:48.930 --> 00:27:51.012 Among Hispanics compared to non Hispanic

NOTE Confidence: 0.8624329625

00:27:51.012 --> 00:27:53.809 and you know how non European ancestry,

NOTE Confidence: 0.8624329625

00:27:53.810 --> 00:27:55.110 at least in the Caribbean,

NOTE Confidence: 0.8624329625

00:27:55.110 --> 00:27:57.355 Hispanics from Puerto Rico was

NOTE Confidence: 0.8624329625

00:27:57.355 --> 00:27:59.151 associated with worse colorectal

NOTE Confidence: 0.8624329625

00:27:59.151 --> 00:28:01.138 cancer outcomes and nutrition,

NOTE Confidence: 0.8624329625

00:28:01.140 --> 00:28:02.982 which you know when you think

NOTE Confidence: 0.8624329625

00:28:02.982 --> 00:28:03.903 about the disease,

NOTE Confidence: 0.8624329625

00:28:03.910 --> 00:28:08.050 is front and center might mediate

NOTE Confidence: 0.8624329625

00:28:08.050 --> 00:28:11.260 the microbiome dysbiosis and it.

NOTE Confidence: 0.8624329625

00:28:11.260 --> 00:28:14.250 You know we might be able to modify some of

NOTE Confidence: 0.859347231538462

00:28:14.319 --> 00:28:15.639 those risk factors.

NOTE Confidence: 0.859347231538462

00:28:15.640 --> 00:28:17.576 This is the team that I work with

NOTE Confidence: 0.859347231538462

00:28:17.576 --> 00:28:19.270 and this was this past March.

NOTE Confidence: 0.859347231538462

00:28:19.270 --> 00:28:21.676 For the correct awareness dressed in

NOTE Confidence: 0.859347231538462

00:28:21.676 --> 00:28:25.295 blue and I would like to finalize by

NOTE Confidence: 0.859347231538462

00:28:25.295 --> 00:28:27.715 thinking about the National Cancer

NOTE Confidence: 0.859347231538462

00:28:27.715 --> 00:28:31.258 Institute and the NIGMS as well as

NOTE Confidence: 0.859347231538462

00:28:31.258 --> 00:28:34.930 local fan from Puerto Rico government.

NOTE Confidence: 0.859347231538462

00:28:34.930 --> 00:28:37.378 For some of the work that you have seen,

NOTE Confidence: 0.859347231538462

00:28:37.380 --> 00:28:38.920 ankle appears from multiple places

NOTE Confidence: 0.859347231538462

00:28:38.920 --> 00:28:40.906 including the friend of mine, Doctor,

NOTE Confidence: 0.859347231538462

00:28:40.906 --> 00:28:43.582 Shabbir Yard and hopefully maybe he's

NOTE Confidence: 0.859347231538462

00:28:43.582 --> 00:28:47.519 in the call and some other great friends

NOTE Confidence: 0.859347231538462

00:28:47.519 --> 00:28:49.858 across different centers in the US.

NOTE Confidence: 0.859347231538462

00:28:49.858 --> 00:28:52.354 For what we do, thank you very much.

NOTE Confidence: 0.859347231538462

00:28:52.354 --> 00:28:54.496 I think I was trying to make

NOTE Confidence: 0.859347231538462

00:28:54.496 --> 00:28:56.550 the time 10 minutes. Let's see.

NOTE Confidence: 0.859347231538462

00:28:56.550 --> 00:28:58.740 This is part of our campaign

NOTE Confidence: 0.859347231538462

00:28:58.740 --> 00:29:00.249 that we have for.

NOTE Confidence: 0.859347231538462

00:29:00.250 --> 00:29:02.613 We call it the other cleavage

NOTE Confidence: 0.859347231538462

00:29:02.613 --> 00:29:04.178 so our people to stop,

NOTE Confidence: 0.859347231538462

00:29:04.180 --> 00:29:04.744 you know,

NOTE Confidence: 0.859347231538462

00:29:04.744 --> 00:29:06.718 to think about the colon and do

NOTE Confidence: 0.859347231538462

00:29:06.718 --> 00:29:07.979 colorectal cancer screening.

NOTE Confidence: 0.839141456

00:29:11.040 --> 00:29:13.220 Can you hear me again?

NOTE Confidence: 0.839141456

00:29:13.220 --> 00:29:16.888 OK, good good good thank you so much.

NOTE Confidence: 0.839141456

00:29:16.888 --> 00:29:20.400 You are efficient and I was trying to.

NOTE Confidence: 0.839141456

00:29:20.400 --> 00:29:23.460 I'm sorry no that's so great.

NOTE Confidence: 0.839141456

00:29:23.460 --> 00:29:26.268 So I am going to Roy.

NOTE Confidence: 0.839141456

00:29:26.270 --> 00:29:28.326 I might let you ask a question first

NOTE Confidence: 0.839141456

00:29:28.326 --> 00:29:30.238 if you're willing while I pull up.

NOTE Confidence: 0.839141456

00:29:30.240 --> 00:29:32.106 Your Cam has a massive thanks.

NOTE Confidence: 0.839141456

00:29:32.110 --> 00:29:33.180 So much for being here.

NOTE Confidence: 0.5952122625

00:29:33.340 --> 00:29:34.560 How are you Roy?

NOTE Confidence: 0.866032571666667

00:29:35.500 --> 00:29:36.508 Let me ask you a question.

NOTE Confidence: 0.866032571666667

00:29:36.510 --> 00:29:38.022 It's something related so you know

NOTE Confidence: 0.866032571666667

00:29:38.022 --> 00:29:39.305 I'm working very closely with

NOTE Confidence: 0.866032571666667

00:29:39.305 --> 00:29:40.455 the Clinical Trials Office here

NOTE Confidence: 0.866032571666667

00:29:40.455 --> 00:29:41.939 and I notice that our accrual.

NOTE Confidence: 0.866032571666667

00:29:41.940 --> 00:29:44.928 Of Latin Hispanic patients is really poor,

NOTE Confidence: 0.866032571666667

00:29:44.930 --> 00:29:46.734 and that's something throughout

NOTE Confidence: 0.866032571666667

00:29:46.734 --> 00:29:48.087 the United States.

NOTE Confidence: 0.866032571666667

00:29:48.090 --> 00:29:49.872 Any any tips on how we can improve that?

NOTE Confidence: 0.866032571666667

00:29:49.880 --> 00:29:52.030 I know it's a general problem. Yeah,

NOTE Confidence: 0.743262182

00:29:52.280 --> 00:29:53.480 it's a general problem there.

NOTE Confidence: 0.743262182

00:29:53.480 --> 00:29:55.250 There's a lot of distrust, right?

NOTE Confidence: 0.743262182

00:29:55.250 --> 00:29:56.700 And and I think still,

NOTE Confidence: 0.743262182

00:29:56.700 --> 00:29:59.946 there's a huge Guinea pig concept,

NOTE Confidence: 0.743262182

00:29:59.950 --> 00:30:01.566 so you know one of the things that

NOTE Confidence: 0.743262182

00:30:01.566 --> 00:30:03.184 we have done, locali, you know.

NOTE Confidence: 0.743262182

00:30:03.184 --> 00:30:04.928 And remember, I'm a Puerto Rican

NOTE Confidence: 0.743262182

00:30:04.928 --> 00:30:06.383 working with Puerto Rican's, right?

NOTE Confidence: 0.743262182

00:30:06.383 --> 00:30:08.644 So so people shouldn't be discriminated or

NOTE Confidence: 0.743262182

00:30:08.644 --> 00:30:10.487 feel discriminated because of the you know,

NOTE Confidence: 0.743262182

00:30:10.490 --> 00:30:12.990 rate, racial and ethnic concordance.

NOTE Confidence: 0.743262182

00:30:12.990 --> 00:30:15.160 But one of the concepts that we

NOTE Confidence: 0.743262182

00:30:15.160 --> 00:30:17.484 have started to use is that I don't

NOTE Confidence: 0.743262182

00:30:17.484 --> 00:30:19.800 like to use the word investigation,

NOTE Confidence: 0.743262182

00:30:19.800 --> 00:30:21.045 which means research,

NOTE Confidence: 0.743262182

00:30:21.045 --> 00:30:23.535 because when you put the word

NOTE Confidence: 0.743262182

00:30:23.535 --> 00:30:24.790 investigation or research,

NOTE Confidence: 0.743262182

00:30:24.790 --> 00:30:27.680 or you know people immediately, they stop so.

NOTE Confidence: 0.743262182

00:30:27.680 --> 00:30:29.290 So the word that we're using now.

NOTE Confidence: 0.743262182

00:30:29.290 --> 00:30:31.730 We used protocols, you know,

NOTE Confidence: 0.743262182

00:30:31.730 --> 00:30:34.430 National Cancer Institute protocol

NOTE Confidence: 0.743262182

00:30:34.430 --> 00:30:37.130 or industry treatment protocols.

NOTE Confidence: 0.743262182

00:30:37.130 --> 00:30:39.497 And then we explained to them what it means.

NOTE Confidence: 0.743262182

00:30:39.500 --> 00:30:40.118 Of course,

NOTE Confidence: 0.743262182

00:30:40.118 --> 00:30:42.590 this is before the FDA approves the drug,

NOTE Confidence: 0.743262182

00:30:42.590 --> 00:30:43.820 so I tell them that.

NOTE Confidence: 0.743262182

00:30:43.820 --> 00:30:45.982 But it's almost like it's at

NOTE Confidence: 0.743262182

00:30:45.982 --> 00:30:47.254 least this is what I see.

NOTE Confidence: 0.743262182

00:30:47.260 --> 00:30:49.948 You know, when you use the word research,

NOTE Confidence: 0.743262182

00:30:49.950 --> 00:30:52.080 most people simply become scared,

NOTE Confidence: 0.743262182

00:30:52.080 --> 00:30:54.504 so you need to have cultural competency

NOTE Confidence: 0.743262182

00:30:54.504 --> 00:30:58.230 an you know as much as we can have,

NOTE Confidence: 0.743262182

00:30:58.230 --> 00:30:59.670 you know someone to speak to

NOTE Confidence: 0.743262182

00:30:59.670 --> 00:31:01.110 them in the remaining language.

NOTE Confidence: 0.743262182

00:31:01.110 --> 00:31:03.126 And if you can do that concordance,

NOTE Confidence: 0.743262182

00:31:03.130 --> 00:31:04.830 it increases your chances

NOTE Confidence: 0.743262182

00:31:04.830 --> 00:31:06.105 you know dramatically.

NOTE Confidence: 0.791766042

00:31:07.650 --> 00:31:09.255 During navigators now, and we're

NOTE Confidence: 0.791766042

00:31:09.255 --> 00:31:10.860 translating all the consent forms.

NOTE Confidence: 0.724583196

00:31:11.120 --> 00:31:12.780 Salute Lee, you know Roy.

NOTE Confidence: 0.724583196

00:31:12.780 --> 00:31:14.730 Even there be a you know.

NOTE Confidence: 0.724583196

00:31:14.730 --> 00:31:15.958 I wish everyone would

NOTE Confidence: 0.724583196

00:31:15.958 --> 00:31:17.493 imagine that they will have.

NOTE Confidence: 0.724583196

00:31:17.500 --> 00:31:19.344 You know, multiple language

NOTE Confidence: 0.724583196

00:31:19.344 --> 00:31:22.110 consent forms they do not sovyet

NOTE Confidence: 0.724583196

00:31:22.192 --> 00:31:24.160 trials which I have, you know,

NOTE Confidence: 0.724583196

00:31:24.160 --> 00:31:25.880 and I I was adamant about the fact

NOTE Confidence: 0.724583196

00:31:25.933 --> 00:31:27.653 that you know they had to have any

NOTE Confidence: 0.724583196

00:31:27.653 --> 00:31:29.172 more than one language because you

NOTE Confidence: 0.724583196

00:31:29.172 --> 00:31:31.053 know we have people that are U.S.

NOTE Confidence: 0.724583196

00:31:31.053 --> 00:31:32.668 citizens that speak another language.

NOTE Confidence: 0.724583196

00:31:32.670 --> 00:31:34.930 So I said we better than you

NOTE Confidence: 0.724583196

00:31:34.930 --> 00:31:36.005 know and it's it's working.

NOTE Confidence: 0.724583196

00:31:36.010 --> 00:31:37.384 So yeah black,

NOTE Confidence: 0.724583196

00:31:37.384 --> 00:31:38.758 I congratulate you.

NOTE Confidence: 0.724583196

00:31:38.760 --> 00:31:39.760 For for doing that

NOTE Confidence: 0.759736331111111

00:31:39.900 --> 00:31:40.972 where we're trying now,

NOTE Confidence: 0.759736331111111

00:31:40.972 --> 00:31:42.312 listen before we go on.

NOTE Confidence: 0.759736331111111

00:31:42.320 --> 00:31:45.638 Cam has a little presentation for you.

NOTE Confidence: 0.759736331111111

00:31:45.640 --> 00:31:48.520 I mentioned in the beginning that

NOTE Confidence: 0.759736331111111

00:31:48.520 --> 00:31:51.928 Russia is our our inaugural inaugural

NOTE Confidence: 0.759736331111111

00:31:51.928 --> 00:31:55.864 recipient of this annual Lectureship Plex,

NOTE Confidence: 0.759736331111111

00:31:55.870 --> 00:31:57.950 so we will be sending this to you.

NOTE Confidence: 0.759736331111111

00:31:57.950 --> 00:31:59.580 We wish it were interested,

NOTE Confidence: 0.759736331111111

00:31:59.580 --> 00:32:02.226 but we're we're really grateful for

NOTE Confidence: 0.759736331111111

00:32:02.226 --> 00:32:04.460 your presentation and presence today,

NOTE Confidence: 0.759736331111111

00:32:04.460 --> 00:32:06.790 so thank you so much for joining us. Thank

NOTE Confidence: 0.920062792

00:32:06.800 --> 00:32:07.940 you, thank you very much.

NOTE Confidence: 0.920062792

00:32:07.940 --> 00:32:09.548 It's an honor, and you know.

NOTE Confidence: 0.8705528375

00:32:18.040 --> 00:32:19.696 I'm trying to pull all these things together.

NOTE Confidence: 0.8705528375

00:32:19.700 --> 00:32:21.440 It's it's, you know,

NOTE Confidence: 0.8705528375

00:32:21.440 --> 00:32:23.821 he's really a Humira Chal sometimes.

NOTE Confidence: 0.8705528375

00:32:23.821 --> 00:32:26.470 And you know and we need to work as teams,

NOTE Confidence: 0.8705528375

00:32:26.470 --> 00:32:28.884 so I'm glad that you are. You know,

NOTE Confidence: 0.8705528375

00:32:28.884 --> 00:32:30.460 doing this for thank you. Thank you.

NOTE Confidence: 0.832098443

00:32:30.470 --> 00:32:31.378 Yes, now we would.

NOTE Confidence: 0.832098443

00:32:31.378 --> 00:32:33.240 We would love to do that, you know.

NOTE Confidence: 0.832098443

00:32:33.240 --> 00:32:34.770 And I think that one thing

NOTE Confidence: 0.832098443

00:32:34.770 --> 00:32:36.095 just to highlight for you.

NOTE Confidence: 0.832098443

00:32:36.100 --> 00:32:37.975 And I think for potential

NOTE Confidence: 0.832098443

00:32:37.975 --> 00:32:39.100 future conversations and

NOTE Confidence: 0.832098443

00:32:39.100 --> 00:32:40.559 collaborations are are greater.

NOTE Confidence: 0.832098443

00:32:40.560 --> 00:32:42.990 New Haven community is very diverse

NOTE Confidence: 0.832098443

00:32:42.990 --> 00:32:46.313 and I think we have a lot of

NOTE Confidence: 0.832098443

00:32:46.313 --> 00:32:48.338 you know Hispanic patients and.

NOTE Confidence: 0.832098443

00:32:48.340 --> 00:32:49.620 My patients and I think,

NOTE Confidence: 0.832098443

00:32:49.620 --> 00:32:51.000 as I'm sure you know,

NOTE Confidence: 0.832098443

00:32:51.000 --> 00:32:52.728 this three year work with doctor

NOTE Confidence: 0.832098443

00:32:52.728 --> 00:32:54.896 your were eager to make sure that

NOTE Confidence: 0.832098443

00:32:54.896 --> 00:32:56.798 we're meeting the needs of these

NOTE Confidence: 0.832098443

00:32:56.798 --> 00:32:58.418 patients in our catchment area.

NOTE Confidence: 0.832098443

00:32:58.420 --> 00:33:00.628 And I think I was really,

NOTE Confidence: 0.832098443

00:33:00.630 --> 00:33:03.030 I think I really liked your work on

NOTE Confidence: 0.832098443

00:33:03.030 --> 00:33:05.080 the microbiome versus bacterial genes,

NOTE Confidence: 0.832098443

00:33:05.080 --> 00:33:06.995 and I think really trying

NOTE Confidence: 0.832098443

00:33:06.995 --> 00:33:08.910 to do a deeper dive,

NOTE Confidence: 0.832098443

00:33:08.910 --> 00:33:10.821 both in terms of that but also

NOTE Confidence: 0.832098443

00:33:10.821 --> 00:33:12.584 precision medicine to really meet the

NOTE Confidence: 0.832098443

00:33:12.584 --> 00:33:14.366 needs of a more diverse population.

NOTE Confidence: 0.838421344285714

00:33:14.590 --> 00:33:15.698 That's correct, that's correct,

NOTE Confidence: 0.838421344285714

00:33:15.698 --> 00:33:17.770 and you know, it's almost like impossible.

NOTE Confidence: 0.838421344285714

00:33:17.770 --> 00:33:20.560 You know to try to answer every question,

NOTE Confidence: 0.838421344285714

00:33:20.560 --> 00:33:23.116 so the way that we have you know our

NOTE Confidence: 0.838421344285714

00:33:23.116 --> 00:33:25.175 approach has been to really collaborate

NOTE Confidence: 0.838421344285714

00:33:25.175 --> 00:33:27.732 with teams and you know from basic

NOTE Confidence: 0.838421344285714

00:33:27.732 --> 00:33:30.084 scientists and you know to physician

NOTE Confidence: 0.838421344285714

00:33:30.084 --> 00:33:31.718 scientists and even the Community, you

NOTE Confidence: 0.838421344285714

00:33:31.718 --> 00:33:33.670 know that that work that I show you about.

NOTE Confidence: 0.838421344285714

00:33:33.670 --> 00:33:35.170 You know access to care.

NOTE Confidence: 0.838421344285714

00:33:35.170 --> 00:33:37.818 I mean, I, I, I was really amazing.

NOTE Confidence: 0.838421344285714

00:33:37.820 --> 00:33:39.554 I love the molecules and you

NOTE Confidence: 0.838421344285714

00:33:39.554 --> 00:33:40.684 know when you talk about jeans,

NOTE Confidence: 0.838421344285714

00:33:40.684 --> 00:33:42.226 I get very excited but but

NOTE Confidence: 0.838421344285714

00:33:42.226 --> 00:33:44.184 then I realize that, you know,

NOTE Confidence: 0.838421344285714

00:33:44.184 --> 00:33:46.473 we have to also tackle the community.

NOTE Confidence: 0.838421344285714

00:33:46.480 --> 00:33:48.660 The access to health care.

NOTE Confidence: 0.838421344285714

00:33:48.660 --> 00:33:50.236 It doesn't explain all.

NOTE Confidence: 0.838421344285714

00:33:50.236 --> 00:33:52.114 OK, because you sweesy populations

NOTE Confidence: 0.838421344285714

00:33:52.114 --> 00:33:54.340 any this has been published many

NOTE Confidence: 0.838421344285714

00:33:54.406 --> 00:33:56.104 times over that with the same

NOTE Confidence: 0.838421344285714

00:33:56.104 --> 00:33:58.200 access to care you see differences

NOTE Confidence: 0.838421344285714

00:33:58.200 --> 00:34:00.008 right using these disparities.

NOTE Confidence: 0.838421344285714

00:34:00.010 --> 00:34:02.026 But you know some of the key

NOTE Confidence: 0.838421344285714

00:34:02.026 --> 00:34:04.029 factors may be mediated to you,

NOTE Confidence: 0.838421344285714

00:34:04.030 --> 00:34:05.530 know those genes that we inherit,

NOTE Confidence: 0.838421344285714

00:34:05.530 --> 00:34:07.553 and there was a an article published

NOTE Confidence: 0.838421344285714

00:34:07.553 --> 00:34:09.621 maybe three months ago by the group that

NOTE Confidence: 0.838421344285714

00:34:09.621 --> 00:34:11.728 blanket and it was published in Nature.

NOTE Confidence: 0.838421344285714

00:34:11.730 --> 00:34:13.878 He was about.

NOTE Confidence: 0.838421344285714

00:34:13.880 --> 00:34:16.358 Lung cancer an ancestry and you

NOTE Confidence: 0.838421344285714

00:34:16.358 --> 00:34:18.611 know it was beautifully presented

NOTE Confidence: 0.838421344285714

00:34:18.611 --> 00:34:21.236 that depending on your ancestry,

NOTE Confidence: 0.838421344285714

00:34:21.240 --> 00:34:23.646 particular genes that were driver for

NOTE Confidence: 0.838421344285714

00:34:23.646 --> 00:34:26.192 lung cancer were present, so you know.

NOTE Confidence: 0.838421344285714

00:34:26.192 --> 00:34:26.820 Of course,

NOTE Confidence: 0.838421344285714

00:34:26.820 --> 00:34:29.876 if you are exposed to more carcinogens right,

NOTE Confidence: 0.838421344285714

00:34:29.880 --> 00:34:31.446 you will have a higher risk

NOTE Confidence: 0.838421344285714

00:34:31.446 --> 00:34:32.229 for developing cancer,

NOTE Confidence: 0.838421344285714

00:34:32.230 --> 00:34:34.946 but it was not explained by the

NOTE Confidence: 0.838421344285714

00:34:34.946 --> 00:34:37.069 environment was explained by the genes.

NOTE Confidence: 0.838421344285714

00:34:37.070 --> 00:34:40.256 So this same approach we need to dive deeper.

NOTE Confidence: 0.838421344285714

00:34:40.260 --> 00:34:41.396 And now you know,

NOTE Confidence: 0.838421344285714

00:34:41.396 --> 00:34:42.816 identify you know what are

NOTE Confidence: 0.838421344285714

00:34:42.816 --> 00:34:44.010 those other you know.

NOTE Confidence: 0.838421344285714

00:34:44.010 --> 00:34:46.747 Genes that might be related to inflammation,

NOTE Confidence: 0.838421344285714

00:34:46.750 --> 00:34:49.347 you know, stress related and not really.

NOTE Confidence: 0.838421344285714

00:34:49.350 --> 00:34:51.888 You know, you know Uncle genes,

NOTE Confidence: 0.838421344285714

00:34:51.890 --> 00:34:53.750 but maybe just stress related right?

NOTE Confidence: 0.838421344285714

00:34:53.750 --> 00:34:55.886 And you get more of you know like

NOTE Confidence: 0.838421344285714

00:34:55.886 --> 00:34:57.914 for instance we've been looking into

NOTE Confidence: 0.838421344285714

00:34:57.914 --> 00:34:59.709 interleukins and whether or not

NOTE Confidence: 0.838421344285714

00:34:59.709 --> 00:35:02.361 having a particular Geno type in key

NOTE Confidence: 0.838421344285714

00:35:02.361 --> 00:35:03.845 interleukins that are inflammatory

NOTE Confidence: 0.838421344285714

00:35:03.850 --> 00:35:06.676 mediated my increase the risk of

NOTE Confidence: 0.838421344285714

00:35:06.676 --> 00:35:09.100 developing cancer once you you

NOTE Confidence: 0.838421344285714

00:35:09.100 --> 00:35:11.830 know expose that to two whatever

NOTE Confidence: 0.838421344285714

00:35:11.830 --> 00:35:14.159 carcinogen and we're doing that.

NOTE Confidence: 0.838421344285714

00:35:14.160 --> 00:35:15.315 Usina organoid models.

NOTE Confidence: 0.838421344285714

00:35:15.315 --> 00:35:16.470 It's not my.

NOTE Confidence: 0.838421344285714

00:35:16.470 --> 00:35:17.968 My work is part of the team,

NOTE Confidence: 0.838421344285714

00:35:17.970 --> 00:35:20.217 so you know there are many more

NOTE Confidence: 0.838421344285714

00:35:20.217 --> 00:35:22.978 questions that we could try to attend by

NOTE Confidence: 0.838421344285714

00:35:22.978 --> 00:35:25.570 really dissecting all the different areas.

NOTE Confidence: 0.888248332727273

00:35:28.160 --> 00:35:29.498 That's great, I don't see any

NOTE Confidence: 0.888248332727273

00:35:29.498 --> 00:35:30.650 other questions in the chat,

NOTE Confidence: 0.888248332727273

00:35:30.650 --> 00:35:32.650 but please post them if you have any,

NOTE Confidence: 0.888248332727273

00:35:32.650 --> 00:35:34.086 and I'll maybe ask.

NOTE Confidence: 0.888248332727273

00:35:34.086 --> 00:35:36.672 Ask another one or just a comment

NOTE Confidence: 0.888248332727273

00:35:36.672 --> 00:35:39.480 you know I did not know that the

NOTE Confidence: 0.888248332727273

00:35:39.480 --> 00:35:42.437 TGA had really like such little

NOTE Confidence: 0.888248332727273

00:35:42.437 --> 00:35:44.457 diversity and zero Hispanics,

NOTE Confidence: 0.888248332727273

00:35:44.460 --> 00:35:46.122 and I think that I'm wondering

NOTE Confidence: 0.888248332727273

00:35:46.122 --> 00:35:48.343 as you can in your sort of

NOTE Confidence: 0.888248332727273

00:35:48.343 --> 00:35:50.078 leadership roles in the survey,

NOTE Confidence: 0.888248332727273

00:35:50.080 --> 00:35:51.924 CR and other organizations.

NOTE Confidence: 0.888248332727273

00:35:51.924 --> 00:35:54.690 What are some ways that you

NOTE Confidence: 0.888248332727273

00:35:54.774 --> 00:35:57.522 are going to propose basic and

NOTE Confidence: 0.888248332727273

00:35:57.522 --> 00:35:58.594 translational researchers?

NOTE Confidence: 0.888248332727273

00:35:58.594 --> 00:36:01.274 To conduct more diverse research,

NOTE Confidence: 0.87978269

00:36:01.700 --> 00:36:03.160 yeah and and you know,

NOTE Confidence: 0.87978269

00:36:03.160 --> 00:36:05.575 thank God that this has started already,

NOTE Confidence: 0.87978269

00:36:05.580 --> 00:36:07.010 so you know they said,

NOTE Confidence: 0.87978269

00:36:07.010 --> 00:36:09.450 you know when when we were all like you know,

NOTE Confidence: 0.87978269

00:36:09.450 --> 00:36:12.130 looking at the data and you know seeing

NOTE Confidence: 0.87978269

00:36:12.130 --> 00:36:15.420 the the lack of diversity right at the

NOTE Confidence: 0.87978269

00:36:15.420 --> 00:36:19.570 same time a huge effort started on the ACR.

NOTE Confidence: 0.87978269

00:36:19.570 --> 00:36:21.946 Really, you know, promoted the genie,

NOTE Confidence: 0.87978269

00:36:21.950 --> 00:36:23.470 the project Genie right?

NOTE Confidence: 0.87978269

00:36:23.470 --> 00:36:26.305 Which now when you look at the

NOTE Confidence: 0.87978269

00:36:26.305 --> 00:36:28.665 centers that contribute to tumors.

NOTE Confidence: 0.87978269

00:36:28.670 --> 00:36:30.246 Much more diverse centers,

NOTE Confidence: 0.87978269

00:36:30.246 --> 00:36:32.610 and now we have close to

NOTE Confidence: 0.87978269

00:36:32.688 --> 00:36:34.258 10% in certain cancers.

NOTE Confidence: 0.87978269

00:36:34.258 --> 00:36:36.026 We have 1015% representation and

NOTE Confidence: 0.87978269

00:36:36.026 --> 00:36:37.778 then the same thing is happening

NOTE Confidence: 0.87978269

00:36:37.778 --> 00:36:39.626 with the prostate cancer right there.

NOTE Confidence: 0.87978269

00:36:39.630 --> 00:36:41.710 Large cohort of prostate cancer.

NOTE Confidence: 0.87978269

00:36:41.710 --> 00:36:44.550 Men that had our 2000 and it's it's

NOTE Confidence: 0.87978269

00:36:44.550 --> 00:36:46.640 halfway there in the collection

NOTE Confidence: 0.87978269

00:36:46.640 --> 00:36:49.250 and it's really focus on African

NOTE Confidence: 0.87978269

00:36:49.250 --> 00:36:51.279 Americans with prostate cancer.

NOTE Confidence: 0.87978269

00:36:51.280 --> 00:36:52.366 Because I mean,

NOTE Confidence: 0.87978269

00:36:52.366 --> 00:36:55.333 how can we understand and better serve our

NOTE Confidence: 0.87978269

00:36:55.333 --> 00:36:57.853 community of patients if we don't know?

NOTE Confidence: 0.87978269

00:36:57.860 --> 00:36:59.306 You know what is the molecular?

NOTE Confidence: 0.87978269

00:36:59.310 --> 00:37:02.430 Profile for these groups so I will know.

NOTE Confidence: 0.87978269

00:37:02.430 --> 00:37:05.046 I will tell you that the change has

NOTE Confidence: 0.87978269

00:37:05.046 --> 00:37:07.110 been dramatic and you know communities

NOTE Confidence: 0.87978269

00:37:07.110 --> 00:37:09.854 like the ACR and you know and even

NOTE Confidence: 0.87978269

00:37:09.854 --> 00:37:11.858 you know inside NCI because you

NOTE Confidence: 0.87978269

00:37:11.858 --> 00:37:13.655 would say why didn't we think about

NOTE Confidence: 0.87978269

00:37:13.655 --> 00:37:15.399 this right when we put it together?

NOTE Confidence: 0.87978269

00:37:15.400 --> 00:37:17.510 Well, there's something called subliminal.

NOTE Confidence: 0.87978269

00:37:17.510 --> 00:37:18.822 You know bias right?

NOTE Confidence: 0.87978269

00:37:18.822 --> 00:37:20.462 I mean some sometimes subconsciously

NOTE Confidence: 0.87978269

00:37:20.462 --> 00:37:21.509 messed up conscious.

NOTE Confidence: 0.87978269

00:37:21.510 --> 00:37:23.180 Sometimes you don't even think

NOTE Confidence: 0.87978269

00:37:23.180 --> 00:37:25.155 about it because there's nobody on

NOTE Confidence: 0.87978269

00:37:25.155 --> 00:37:26.668 the table to remind you, right?

NOTE Confidence: 0.87978269

00:37:26.668 --> 00:37:28.754 So you know when you look at

NOTE Confidence: 0.87978269

00:37:28.754 --> 00:37:30.138 institutions like you know the.

NOTE Confidence: 0.87978269

00:37:30.140 --> 00:37:31.706 NCI that represents,

NOTE Confidence: 0.87978269

00:37:31.706 --> 00:37:34.713 you know the whole USA America

NOTE Confidence: 0.87978269

00:37:34.713 --> 00:37:35.892 right 350 million,

NOTE Confidence: 0.87978269

00:37:35.892 --> 00:37:37.857 whichever number we are right,

NOTE Confidence: 0.87978269

00:37:37.860 --> 00:37:39.474 we need to have representation and

NOTE Confidence: 0.87978269

00:37:39.474 --> 00:37:41.438 you know when you look at the NCI.

NOTE Confidence: 0.87978269

00:37:41.440 --> 00:37:42.230 For instance,

NOTE Confidence: 0.87978269

00:37:42.230 --> 00:37:44.600 there are two important bodies like

NOTE Confidence: 0.87978269

00:37:44.600 --> 00:37:48.720 they they NCIB right in the baby.

NOTE Confidence: 0.87978269

00:37:48.720 --> 00:37:50.265 I forgot the whole nomenclature

NOTE Confidence: 0.87978269

00:37:50.265 --> 00:37:52.725 is one of the groups that advisory

NOTE Confidence: 0.87978269

00:37:52.725 --> 00:37:54.840 boards with the National Cancer

NOTE Confidence: 0.87978269

00:37:54.840 --> 00:37:56.109 Institute Advisory Board.

NOTE Confidence: 0.87978269

00:37:56.110 --> 00:37:58.217 And then we also have the Board

NOTE Confidence: 0.87978269

00:37:58.217 --> 00:37:59.120 of scientific advisors.

NOTE Confidence: 0.87978269

00:37:59.120 --> 00:37:59.915 So you know,

NOTE Confidence: 0.87978269

00:37:59.915 --> 00:38:01.505 those are the group of individuals

NOTE Confidence: 0.87978269

00:38:01.505 --> 00:38:03.251 that are scientists that represented

NOTE Confidence: 0.87978269

00:38:03.251 --> 00:38:05.700 different segments of our community of sign.

NOTE Confidence: 0.87978269

00:38:05.700 --> 00:38:08.184 That it's important that we start

NOTE Confidence: 0.87978269

00:38:08.184 --> 00:38:10.170 having representation from the top,

NOTE Confidence: 0.87978269

00:38:10.170 --> 00:38:12.978 because if we are not at the table right,

NOTE Confidence: 0.87978269

00:38:12.980 --> 00:38:14.604 you know you know what they idiom says.

NOTE Confidence: 0.87978269

00:38:14.610 --> 00:38:16.322 So I think that that's one of the

NOTE Confidence: 0.87978269

00:38:16.322 --> 00:38:17.850 things that has started to happen,

NOTE Confidence: 0.87978269

00:38:17.850 --> 00:38:19.506 and you know the same thing

NOTE Confidence: 0.87978269

00:38:19.506 --> 00:38:20.334 applies for women.

NOTE Confidence: 0.87978269

00:38:20.340 --> 00:38:21.817 And you know, I always have to,

NOTE Confidence: 0.87978269

00:38:21.820 --> 00:38:24.112 you know, remind people that you

NOTE Confidence: 0.87978269

00:38:24.112 --> 00:38:27.340 know 50% of us are they look like me,

NOTE Confidence: 0.87978269

00:38:27.340 --> 00:38:29.195 but sometimes when you look at the

NOTE Confidence: 0.87978269

00:38:29.195 --> 00:38:29.460 leadership,

NOTE Confidence: 0.87978269

00:38:29.460 --> 00:38:30.948 you only see 10% of us,

NOTE Confidence: 0.87978269

00:38:30.950 --> 00:38:34.418 so you know it's important to

NOTE Confidence: 0.87978269

00:38:34.418 --> 00:38:35.574 promote diversity.

NOTE Confidence: 0.87978269

00:38:35.580 --> 00:38:36.843 Across religion ethnicity,

NOTE Confidence: 0.87978269

00:38:36.843 --> 00:38:39.790 you know gender and you know race

NOTE Confidence: 0.87978269

00:38:39.866 --> 00:38:41.901 and I'm starting with leadership

NOTE Confidence: 0.87978269

00:38:41.901 --> 00:38:44.340 positions and when we are there

NOTE Confidence: 0.87978269

00:38:44.340 --> 00:38:45.980 you know then we make,

NOTE Confidence: 0.87978269

00:38:45.980 --> 00:38:47.359 you know we we make our point.

NOTE Confidence: 0.87978269

00:38:47.360 --> 00:38:48.984 We make sure that we know we're

NOTE Confidence: 0.87978269

00:38:48.984 --> 00:38:49.980 not oblivious to that.

NOTE Confidence: 0.87978269

00:38:49.980 --> 00:38:51.534 So I think you know the short

NOTE Confidence: 0.87978269

00:38:51.534 --> 00:38:53.208 answer is that we're doing better.

NOTE Confidence: 0.865513929473684

00:38:53.210 --> 00:38:55.430 We're going to have good data in the next few

NOTE Confidence: 0.865513929473684

00:38:55.479 --> 00:38:57.594 years and that data that I just showed you.

NOTE Confidence: 0.865513929473684

00:38:57.600 --> 00:38:59.646 I mean, that was commercial data,

NOTE Confidence: 0.865513929473684

00:38:59.650 --> 00:39:01.444 so we basically took RSR group

NOTE Confidence: 0.865513929473684

00:39:01.444 --> 00:39:03.000 of patients and you know,

NOTE Confidence: 0.865513929473684

00:39:03.000 --> 00:39:05.664 in 10 years before that would have been.

NOTE Confidence: 0.865513929473684

00:39:05.670 --> 00:39:07.910 Impossible for anyone to afford.

NOTE Confidence: 0.865513929473684

00:39:07.910 --> 00:39:10.268 You know, over $1000 that that

NOTE Confidence: 0.865513929473684

00:39:10.268 --> 00:39:12.005 cost about $3000 per patient.

NOTE Confidence: 0.865513929473684

00:39:12.005 --> 00:39:13.895 And you know that we're required

NOTE Confidence: 0.865513929473684

00:39:13.895 --> 00:39:15.940 a large or one to do it right?

NOTE Confidence: 0.865513929473684

00:39:15.940 --> 00:39:18.292 But now we can use those

NOTE Confidence: 0.865513929473684

00:39:18.292 --> 00:39:19.468 commercially available databases,

NOTE Confidence: 0.865513929473684

00:39:19.470 --> 00:39:21.892 which you know allows an investigator you

NOTE Confidence: 0.865513929473684

00:39:21.892 --> 00:39:24.699 know to start comparing and pulling data.

NOTE Confidence: 0.865513929473684

00:39:24.700 --> 00:39:27.409 You know DJ is only one of the databases.

NOTE Confidence: 0.865513929473684

00:39:27.410 --> 00:39:28.802 We have multiple lines.

NOTE Confidence: 0.865513929473684

00:39:28.802 --> 00:39:31.700 I mean, there are multiple lines that.

NOTE Confidence: 0.865513929473684

00:39:31.700 --> 00:39:33.476 Smart people can I get?

NOTE Confidence: 0.865513929473684

00:39:33.476 --> 00:39:34.416 You know people that you

NOTE Confidence: 0.865513929473684

00:39:34.416 --> 00:39:35.502 know have good questions,

NOTE Confidence: 0.865513929473684

00:39:35.502 --> 00:39:37.590 can pull an evaluate,

NOTE Confidence: 0.865513929473684

00:39:37.590 --> 00:39:39.606 so hopefully soon will have much more.

NOTE Confidence: 0.874964486363636

00:39:40.910 --> 00:39:42.665 Great, well we are just

NOTE Confidence: 0.874964486363636

00:39:42.665 --> 00:39:44.740 about at the hour or so.

NOTE Confidence: 0.874964486363636

00:39:44.740 --> 00:39:47.075 Thank you Doctor Cruz Correa

NOTE Confidence: 0.874964486363636

00:39:47.075 --> 00:39:48.943 for joining us today.

NOTE Confidence: 0.874964486363636

00:39:48.950 --> 00:39:49.830 Thank you for tonight.

NOTE Confidence: 0.874964486363636

00:39:49.830 --> 00:39:51.815 We're excited to continue the

NOTE Confidence: 0.874964486363636

00:39:51.815 --> 00:39:54.330 conversation with you and other forums.

NOTE Confidence: 0.874964486363636

00:39:54.330 --> 00:39:57.438 Roy any other words?

NOTE Confidence: 0.874964486363636

00:39:57.440 --> 00:39:59.948 It's wonderful to have you here

NOTE Confidence: 0.874964486363636

00:39:59.948 --> 00:40:01.945 and hopefully someday in person and

NOTE Confidence: 0.874964486363636

00:40:01.945 --> 00:40:04.015 looking forward to working with you,

NOTE Confidence: 0.874964486363636

00:40:04.020 --> 00:40:05.628 you've given us many things to think

NOTE Confidence: 0.874964486363636

00:40:05.630 --> 00:40:06.670 about that are really important

NOTE Confidence: 0.874964486363636

00:40:06.670 --> 00:40:08.080 for our community and for patients.

NOTE Confidence: 0.874964486363636

00:40:08.080 --> 00:40:10.776 And and thanks so much for your time.

NOTE Confidence: 0.874964486363636

00:40:10.780 --> 00:40:11.090 Thank

NOTE Confidence: 0.905955973333333

00:40:11.100 --> 00:40:12.822 you very much. We are really

NOTE Confidence: 0.905955973333333

00:40:12.822 --> 00:40:14.479 privileged group to be able to,

NOTE Confidence: 0.905955973333333

00:40:14.480 --> 00:40:16.076 you know, do something that we

NOTE Confidence: 0.905955973333333

00:40:16.076 --> 00:40:18.000 love and I think that's for me.

NOTE Confidence: 0.905955973333333

00:40:18.000 --> 00:40:20.156 That's the key and am I see

NOTE Confidence: 0.905955973333333

00:40:20.156 --> 00:40:21.840 that you guys are also,

NOTE Confidence: 0.905955973333333

00:40:21.840 --> 00:40:22.940 you know doing the same.

NOTE Confidence: 0.905955973333333

00:40:22.940 --> 00:40:24.464 So thank you for the invitation

NOTE Confidence: 0.905955973333333

00:40:24.464 --> 00:40:26.010 royal pleasure to see you again.

NOTE Confidence: 0.800169162857143

00:40:27.170 --> 00:40:28.920 We will be sending you that plaxo.

NOTE Confidence: 0.800169162857143

00:40:28.920 --> 00:40:31.538 OK, you're gonna love your office about

NOTE Confidence: 0.805453568571428

00:40:31.550 --> 00:40:33.615 be delighted to I'm right here so

NOTE Confidence: 0.68487013

00:40:34.500 --> 00:40:36.590 thank you. Thank everyone and

NOTE Confidence: 0.68487013

00:40:36.590 --> 00:40:37.878 goodbye. My friends are there

NOTE Confidence: 0.872196742

00:40:37.890 --> 00:40:39.522 as well. So happy to see

NOTE Confidence: 0.872196742

00:40:39.522 --> 00:40:43.000 you all bye bye thank you.