

WEBVTT

NOTE duration: "00:18:23.402"

NOTE Confidence: 0.9785649

00:00:00.240 --> 00:00:01.839 Hi. My name is Claire

NOTE Confidence: 0.9785649

00:00:01.839 --> 00:00:02.340 Flannery.

NOTE Confidence: 0.986545

00:00:02.879 --> 00:00:03.780 I'm an endocrinologist

NOTE Confidence: 0.9917634

00:00:04.559 --> 00:00:06.480 and a researcher in women's

NOTE Confidence: 0.9917634

00:00:06.480 --> 00:00:06.980 health,

NOTE Confidence: 0.9535579

00:00:08.080 --> 00:00:10.000 diabetes and body weight here

NOTE Confidence: 0.9535579

00:00:10.000 --> 00:00:10.880 at the Yale School of

NOTE Confidence: 0.9535579

00:00:10.880 --> 00:00:11.380 Medicine.

NOTE Confidence: 0.9402863

00:00:11.920 --> 00:00:14.225 And, today, I'm very excited,

NOTE Confidence: 0.9562701

00:00:14.625 --> 00:00:15.985 to have a conversation with

NOTE Confidence: 0.9562701

00:00:15.985 --> 00:00:17.285 Doctor. Sonia Caprio,

NOTE Confidence: 0.99481094

00:00:17.744 --> 00:00:19.125 who is also an endocrinologist

NOTE Confidence: 0.9128833

00:00:19.665 --> 00:00:21.345 here at Yale and who

NOTE Confidence: 0.9128833

00:00:21.345 --> 00:00:21.845 studies,

NOTE Confidence: 0.973103

00:00:22.465 --> 00:00:24.485 how body weight and diabetes

NOTE Confidence: 0.973103

00:00:24.704 --> 00:00:25.685 evolves in,

NOTE Confidence: 0.99935037

00:00:26.224 --> 00:00:27.685 children and teenagers.

NOTE Confidence: 0.98014975

00:00:28.500 --> 00:00:30.100 I've long admired her work,

NOTE Confidence: 0.98014975

00:00:30.100 --> 00:00:30.900 and so this is a

NOTE Confidence: 0.98014975

00:00:30.900 --> 00:00:32.020 privilege to get to speak

NOTE Confidence: 0.98014975

00:00:32.020 --> 00:00:34.100 with her. I also we

NOTE Confidence: 0.98014975

00:00:34.100 --> 00:00:35.800 have recently joined forces,

NOTE Confidence: 0.94992524

00:00:36.979 --> 00:00:38.979 so to understand how these,

NOTE Confidence: 0.99354213

00:00:39.380 --> 00:00:40.900 children and teenagers have now

NOTE Confidence: 0.99354213

00:00:40.900 --> 00:00:42.180 grown up as adults and

NOTE Confidence: 0.99354213

00:00:42.180 --> 00:00:43.159 how they're doing.

NOTE Confidence: 0.9689721

00:00:44.795 --> 00:00:46.155 Thank you very much for

NOTE Confidence: 0.9689721

00:00:46.155 --> 00:00:47.454 inviting me. And,

NOTE Confidence: 0.8686367

00:00:48.155 --> 00:00:48.655 yes,

NOTE Confidence: 0.9817357

00:00:49.354 --> 00:00:51.195 the interest is is there

NOTE Confidence: 0.9817357
00:00:51.195 --> 00:00:51.695 for,
NOTE Confidence: 0.94607395
00:00:52.715 --> 00:00:54.555 particularly to start as as
NOTE Confidence: 0.94607395
00:00:54.555 --> 00:00:55.915 the focus was in in
NOTE Confidence: 0.94607395
00:00:55.915 --> 00:00:59.020 diabetes. And slowly, we, understood
NOTE Confidence: 0.94607395
00:00:59.020 --> 00:01:00.780 that there was a link
NOTE Confidence: 0.94607395
00:01:00.780 --> 00:01:02.620 between type two diabetes and
NOTE Confidence: 0.94607395
00:01:02.620 --> 00:01:03.920 and, and obesity.
NOTE Confidence: 0.9581414
00:01:04.780 --> 00:01:06.780 My, interest was mainly in
NOTE Confidence: 0.9581414
00:01:06.780 --> 00:01:07.280 children
NOTE Confidence: 0.98638505
00:01:07.900 --> 00:01:09.180 to see if I could,
NOTE Confidence: 0.95674294
00:01:09.900 --> 00:01:12.000 bring whatever I the experience
NOTE Confidence: 0.95674294
00:01:12.140 --> 00:01:13.120 that we have,
NOTE Confidence: 0.9748511
00:01:14.015 --> 00:01:14.834 and had,
NOTE Confidence: 0.99813676
00:01:15.454 --> 00:01:16.814 in in the field of
NOTE Confidence: 0.99813676
00:01:16.814 --> 00:01:17.314 diabetes
NOTE Confidence: 0.7344066

00:01:17.694 --> 00:01:18.194 to,
NOTE Confidence: 0.9808695
00:01:19.134 --> 00:01:20.034 at that time,
NOTE Confidence: 0.97246563
00:01:20.655 --> 00:01:21.854 I I must say this
NOTE Confidence: 0.97246563
00:01:21.854 --> 00:01:23.295 was the beginning of nineteen
NOTE Confidence: 0.97246563
00:01:23.295 --> 00:01:25.134 nineties, things like that, and
NOTE Confidence: 0.97246563
00:01:25.134 --> 00:01:26.435 there was very little,
NOTE Confidence: 0.52715415
00:01:27.375 --> 00:01:27.875 diabetes,
NOTE Confidence: 0.99634206
00:01:28.790 --> 00:01:29.450 if ever
NOTE Confidence: 0.9282446
00:01:30.069 --> 00:01:31.050 type two diabetes
NOTE Confidence: 0.9688139
00:01:31.350 --> 00:01:32.170 in youth.
NOTE Confidence: 0.9526402
00:01:33.590 --> 00:01:35.270 So little by little, we
NOTE Confidence: 0.9526402
00:01:35.270 --> 00:01:37.110 focus more on on the
NOTE Confidence: 0.9526402
00:01:37.110 --> 00:01:39.030 metabolic syndrome to see if
NOTE Confidence: 0.9526402
00:01:39.030 --> 00:01:39.930 kids with
NOTE Confidence: 0.49805802
00:01:40.710 --> 00:01:41.210 obesity
NOTE Confidence: 0.92444503
00:01:42.245 --> 00:01:43.145 were also,

NOTE Confidence: 0.6250535

00:01:44.005 --> 00:01:44.505 having

NOTE Confidence: 0.9270751

00:01:45.125 --> 00:01:47.045 other problems in the in

NOTE Confidence: 0.9270751

00:01:47.045 --> 00:01:47.705 the lipid

NOTE Confidence: 0.88355047

00:01:48.325 --> 00:01:50.985 system, for example, lipid assessment

NOTE Confidence: 0.9701322

00:01:51.285 --> 00:01:51.785 and

NOTE Confidence: 0.926045

00:01:52.325 --> 00:01:53.625 and and, hypertension.

NOTE Confidence: 0.9250337

00:01:54.570 --> 00:01:56.490 And, and, at that time,

NOTE Confidence: 0.9250337

00:01:56.490 --> 00:01:58.090 there was no fatty liver

NOTE Confidence: 0.9250337

00:01:58.090 --> 00:02:00.250 yet, in, in in the

NOTE Confidence: 0.9250337

00:02:00.250 --> 00:02:01.130 in the air in in

NOTE Confidence: 0.9250337

00:02:01.130 --> 00:02:02.350 the pro as a problem,

NOTE Confidence: 0.9250337

00:02:02.570 --> 00:02:03.710 at least in kids.

NOTE Confidence: 0.9959294

00:02:04.410 --> 00:02:05.870 So little by little,

NOTE Confidence: 0.9322826

00:02:07.130 --> 00:02:09.070 we moved and and understood

NOTE Confidence: 0.9499715

00:02:09.805 --> 00:02:11.325 that the problem many of

NOTE Confidence: 0.9499715

00:02:11.325 --> 00:02:12.445 the problem that we have
NOTE Confidence: 0.9499715

00:02:12.445 --> 00:02:13.105 in overweight
NOTE Confidence: 0.9780239

00:02:13.885 --> 00:02:15.345 and obesity in adults
NOTE Confidence: 0.88606095

00:02:15.805 --> 00:02:17.565 were also seen in the
NOTE Confidence: 0.88606095

00:02:17.565 --> 00:02:19.005 adolescents that I was seeing
NOTE Confidence: 0.88606095

00:02:19.005 --> 00:02:19.725 in a in,
NOTE Confidence: 0.99880964

00:02:20.365 --> 00:02:21.264 in the clinic.
NOTE Confidence: 0.9797195

00:02:21.805 --> 00:02:23.105 Yeah. So your career
NOTE Confidence: 0.99919534

00:02:23.960 --> 00:02:25.960 in service of children and
NOTE Confidence: 0.99919534

00:02:25.960 --> 00:02:26.460 teenagers
NOTE Confidence: 0.97319156

00:02:26.840 --> 00:02:28.680 has now spanned over thirty
NOTE Confidence: 0.97319156

00:02:28.680 --> 00:02:30.760 years with funding from the
NOTE Confidence: 0.97319156

00:02:30.760 --> 00:02:32.380 National Institutes of Health,
NOTE Confidence: 0.96207666

00:02:33.160 --> 00:02:34.380 which is quite prestigious.
NOTE Confidence: 0.987339

00:02:35.080 --> 00:02:36.120 And I know that you've
NOTE Confidence: 0.987339

00:02:36.120 --> 00:02:37.560 written over a hundred and

NOTE Confidence: 0.987339
00:02:37.560 --> 00:02:38.060 fifty
NOTE Confidence: 0.8751548
00:02:38.715 --> 00:02:39.695 peer reviewed publications.
NOTE Confidence: 0.99542874
00:02:40.715 --> 00:02:42.335 You know, many of the,
NOTE Confidence: 0.9977825
00:02:43.035 --> 00:02:44.555 children and teenagers who saw
NOTE Confidence: 0.9977825
00:02:44.555 --> 00:02:46.155 you in clinic participated in
NOTE Confidence: 0.9977825
00:02:46.155 --> 00:02:46.975 these studies.
NOTE Confidence: 0.99433726
00:02:47.355 --> 00:02:48.815 Yeah. In fact, it started,
NOTE Confidence: 0.9509499
00:02:49.595 --> 00:02:51.055 very fast because
NOTE Confidence: 0.97210133
00:02:51.510 --> 00:02:53.430 we started doing these very
NOTE Confidence: 0.97210133
00:02:53.430 --> 00:02:54.970 simple tests that were
NOTE Confidence: 0.66044325
00:02:55.270 --> 00:02:56.410 raising reasonably
NOTE Confidence: 0.9996221
00:02:56.870 --> 00:02:57.370 accepted
NOTE Confidence: 0.8918828
00:02:57.750 --> 00:02:59.350 by a young person, a
NOTE Confidence: 0.8918828
00:02:59.350 --> 00:03:00.570 a a child, basically,
NOTE Confidence: 0.95682424
00:03:01.270 --> 00:03:02.389 because it was from set
NOTE Confidence: 0.95682424

00:03:02.470 --> 00:03:03.669 the age of seven and
NOTE Confidence: 0.95682424

00:03:03.669 --> 00:03:03.975 up.
NOTE Confidence: 0.95422727

00:03:04.615 --> 00:03:05.755 Once we started,
NOTE Confidence: 0.942425

00:03:06.695 --> 00:03:08.455 to the the idea that
NOTE Confidence: 0.942425

00:03:08.455 --> 00:03:10.375 we should basically focus whether
NOTE Confidence: 0.942425

00:03:10.375 --> 00:03:11.435 there was prediabetes
NOTE Confidence: 0.980402

00:03:11.975 --> 00:03:13.675 in youth with obesity,
NOTE Confidence: 0.87378985

00:03:15.255 --> 00:03:16.775 we started by doing these
NOTE Confidence: 0.87378985

00:03:16.775 --> 00:03:17.275 tests
NOTE Confidence: 0.9973731

00:03:17.790 --> 00:03:18.530 that were
NOTE Confidence: 0.8435866

00:03:19.709 --> 00:03:21.010 fairly well accepted.
NOTE Confidence: 0.88984317

00:03:22.349 --> 00:03:23.630 Not all not all every
NOTE Confidence: 0.88984317

00:03:23.630 --> 00:03:25.330 child will drink that sugary,
NOTE Confidence: 0.6848244

00:03:26.349 --> 00:03:27.410 test, basically.
NOTE Confidence: 0.92529863

00:03:27.950 --> 00:03:29.810 But that was the main
NOTE Confidence: 0.92529863

00:03:29.870 --> 00:03:31.455 point to do it, a

NOTE Confidence: 0.92529863
00:03:31.455 --> 00:03:33.135 test, a simple test, not
NOTE Confidence: 0.92529863
00:03:33.135 --> 00:03:33.875 very invasive,
NOTE Confidence: 0.9418656
00:03:34.655 --> 00:03:35.935 that would allow us to
NOTE Confidence: 0.9418656
00:03:35.935 --> 00:03:38.035 know where, the glucose,
NOTE Confidence: 0.67320323
00:03:40.175 --> 00:03:40.835 the tolerance
NOTE Confidence: 0.89240855
00:03:41.135 --> 00:03:43.795 is basically, if it's altered
NOTE Confidence: 0.89240855
00:03:43.855 --> 00:03:44.515 or not.
NOTE Confidence: 0.9074057
00:03:45.150 --> 00:03:45.650 And,
NOTE Confidence: 0.9926029
00:03:46.350 --> 00:03:47.870 and to repeat that in
NOTE Confidence: 0.9926029
00:03:47.870 --> 00:03:49.490 two years as a follow-up.
NOTE Confidence: 0.9926029
00:03:49.710 --> 00:03:51.250 That's what we started doing.
NOTE Confidence: 0.9862819
00:03:51.630 --> 00:03:52.530 In the meantime,
NOTE Confidence: 0.80376995
00:03:53.470 --> 00:03:55.710 because year was very and
NOTE Confidence: 0.80376995
00:03:55.710 --> 00:03:57.010 is still very,
NOTE Confidence: 0.9669528
00:03:57.710 --> 00:03:59.625 famous for doing imaging
NOTE Confidence: 0.9841456

00:04:00.004 --> 00:04:00.825 of the body.
NOTE Confidence: 0.9669587

00:04:01.525 --> 00:04:02.724 So we were the first
NOTE Confidence: 0.9669587

00:04:02.724 --> 00:04:04.004 one to do really the
NOTE Confidence: 0.9669587

00:04:04.004 --> 00:04:06.325 imaging of adipose tissue in
NOTE Confidence: 0.9669587

00:04:06.325 --> 00:04:08.025 children that were overweight
NOTE Confidence: 0.976125

00:04:08.325 --> 00:04:08.985 or not.
NOTE Confidence: 0.9308943

00:04:09.444 --> 00:04:10.965 And so we combined the
NOTE Confidence: 0.9308943

00:04:10.965 --> 00:04:13.280 two things and and, we
NOTE Confidence: 0.9308943

00:04:13.280 --> 00:04:15.220 we started doing these tests.
NOTE Confidence: 0.96998566

00:04:15.840 --> 00:04:17.440 And I would say that
NOTE Confidence: 0.96998566

00:04:17.440 --> 00:04:18.720 by the end the beginning
NOTE Confidence: 0.96998566

00:04:18.720 --> 00:04:20.080 of two thousand, we had
NOTE Confidence: 0.96998566

00:04:20.080 --> 00:04:21.060 about two hundred,
NOTE Confidence: 0.97789603

00:04:21.440 --> 00:04:22.900 kids that underwent,
NOTE Confidence: 0.7656896

00:04:24.080 --> 00:04:26.180 the the OGGTT and,
NOTE Confidence: 0.9687414

00:04:27.505 --> 00:04:28.325 the the imaging.

NOTE Confidence: 0.97419286
00:04:28.785 --> 00:04:30.945 And that paper was very
NOTE Confidence: 0.97419286
00:04:30.945 --> 00:04:31.445 important,
NOTE Confidence: 0.9464617
00:04:32.305 --> 00:04:33.925 at least was accepted
NOTE Confidence: 0.9202925
00:04:34.545 --> 00:04:35.125 in the
NOTE Confidence: 0.8877901
00:04:36.225 --> 00:04:37.685 New England Journal of Medicine.
NOTE Confidence: 0.8858688
00:04:39.040 --> 00:04:40.660 And that opened the door
NOTE Confidence: 0.8858688
00:04:40.720 --> 00:04:42.480 to see, to to let
NOTE Confidence: 0.8858688
00:04:42.480 --> 00:04:44.400 people understand, you know, that
NOTE Confidence: 0.8858688
00:04:44.400 --> 00:04:46.240 the the start of obesity
NOTE Confidence: 0.8858688
00:04:46.240 --> 00:04:46.900 of diabetes
NOTE Confidence: 0.9779996
00:04:47.600 --> 00:04:49.360 started very early, type two
NOTE Confidence: 0.9779996
00:04:49.360 --> 00:04:50.960 diabetes, very early in these
NOTE Confidence: 0.9779996
00:04:50.960 --> 00:04:51.460 kids.
NOTE Confidence: 0.96651
00:04:52.035 --> 00:04:53.395 So that's what,
NOTE Confidence: 0.90021795
00:04:54.035 --> 00:04:55.634 was the first step and
NOTE Confidence: 0.90021795

00:04:55.634 --> 00:04:57.875 was very well important because

NOTE Confidence: 0.90021795

00:04:57.875 --> 00:04:59.495 then the n I NIH

NOTE Confidence: 0.9971489

00:04:59.875 --> 00:05:01.495 decided to do trials

NOTE Confidence: 0.95067364

00:05:02.195 --> 00:05:04.529 in kids with obesity and

NOTE Confidence: 0.95067364

00:05:04.529 --> 00:05:06.370 type two diabetes and see

NOTE Confidence: 0.95067364

00:05:06.370 --> 00:05:07.410 what would be the best

NOTE Confidence: 0.95067364

00:05:07.410 --> 00:05:08.610 way to treat this many

NOTE Confidence: 0.95067364

00:05:08.770 --> 00:05:10.390 these, problem in kids.

NOTE Confidence: 0.99746454

00:05:11.410 --> 00:05:12.870 And why is it important

NOTE Confidence: 0.9992582

00:05:13.650 --> 00:05:15.510 to diagnose children and teenagers?

NOTE Confidence: 0.9390506

00:05:15.845 --> 00:05:17.445 It's very important because the

NOTE Confidence: 0.9390506

00:05:17.445 --> 00:05:19.365 earlier you start it, the

NOTE Confidence: 0.9390506

00:05:19.365 --> 00:05:20.725 the problem I mean, you

NOTE Confidence: 0.9390506

00:05:20.725 --> 00:05:21.845 you know that they have

NOTE Confidence: 0.9390506

00:05:21.845 --> 00:05:23.605 it because it's not like

NOTE Confidence: 0.9390506

00:05:23.605 --> 00:05:25.285 type one diabetes that it

NOTE Confidence: 0.9390506
00:05:25.285 --> 00:05:27.285 it it comes out and
NOTE Confidence: 0.9390506
00:05:27.285 --> 00:05:28.085 you don't,
NOTE Confidence: 0.9357904
00:05:29.045 --> 00:05:30.330 you cannot miss it.
NOTE Confidence: 0.99868315
00:05:30.810 --> 00:05:32.589 Type two diabetes is sometimes
NOTE Confidence: 0.97693145
00:05:33.050 --> 00:05:34.029 pretty silent.
NOTE Confidence: 0.9294339
00:05:34.729 --> 00:05:35.930 So you see that in
NOTE Confidence: 0.9294339
00:05:35.930 --> 00:05:37.689 the silence is it was
NOTE Confidence: 0.9294339
00:05:37.689 --> 00:05:38.969 there. We did not know
NOTE Confidence: 0.9294339
00:05:38.969 --> 00:05:40.409 about it. And by doing
NOTE Confidence: 0.9294339
00:05:40.409 --> 00:05:41.150 the OGTT
NOTE Confidence: 0.99291533
00:05:41.610 --> 00:05:43.550 and the imaging, we realized
NOTE Confidence: 0.99291533
00:05:43.689 --> 00:05:45.150 that there were other issues
NOTE Confidence: 0.8587777
00:05:45.615 --> 00:05:47.055 in in in in these
NOTE Confidence: 0.8587777
00:05:47.055 --> 00:05:47.555 kids.
NOTE Confidence: 0.98216337
00:05:48.175 --> 00:05:49.154 So we started,
NOTE Confidence: 0.87015

00:05:50.015 --> 00:05:51.795 basically with type two diabetes

NOTE Confidence: 0.87015

00:05:51.895 --> 00:05:53.714 when when the NIH

NOTE Confidence: 0.9906474

00:05:54.575 --> 00:05:56.115 also was willing

NOTE Confidence: 0.9567002

00:05:56.495 --> 00:05:58.035 to give, you know, propose

NOTE Confidence: 0.9752323

00:05:59.520 --> 00:06:01.040 a study to see what

NOTE Confidence: 0.9752323

00:06:01.040 --> 00:06:02.240 would be the best way

NOTE Confidence: 0.9752323

00:06:02.240 --> 00:06:03.620 to treat type two diabetes

NOTE Confidence: 0.9752323

00:06:03.680 --> 00:06:04.339 in kids

NOTE Confidence: 0.98116904

00:06:04.720 --> 00:06:05.460 with obesity.

NOTE Confidence: 0.9072418

00:06:06.080 --> 00:06:07.540 And and and that was

NOTE Confidence: 0.9072418

00:06:07.680 --> 00:06:09.279 two thousand and two, two

NOTE Confidence: 0.9072418

00:06:09.279 --> 00:06:10.480 thousand and three that we

NOTE Confidence: 0.9072418

00:06:10.480 --> 00:06:11.779 had the first

NOTE Confidence: 0.921293

00:06:12.240 --> 00:06:12.740 big

NOTE Confidence: 0.90057456

00:06:13.225 --> 00:06:14.825 center, a group of there

NOTE Confidence: 0.90057456

00:06:14.825 --> 00:06:15.565 were thirteen,

NOTE Confidence: 0.99696606
00:06:16.425 --> 00:06:16.925 centers
NOTE Confidence: 0.99711233
00:06:17.385 --> 00:06:18.445 that the NIH
NOTE Confidence: 0.6738001
00:06:18.985 --> 00:06:19.485 selected,
NOTE Confidence: 0.9507189
00:06:20.585 --> 00:06:22.025 and and to do this,
NOTE Confidence: 0.9575835
00:06:22.425 --> 00:06:23.945 study that they wanted to
NOTE Confidence: 0.9575835
00:06:23.945 --> 00:06:25.465 do, basically. And this was
NOTE Confidence: 0.9575835
00:06:25.465 --> 00:06:27.000 the first time, large,
NOTE Confidence: 0.76263946
00:06:28.360 --> 00:06:28.860 study,
NOTE Confidence: 0.99446404
00:06:29.560 --> 00:06:31.000 to understand what is the
NOTE Confidence: 0.99446404
00:06:31.000 --> 00:06:32.360 problem of type two diabetes
NOTE Confidence: 0.99446404
00:06:32.360 --> 00:06:33.420 in such a
NOTE Confidence: 0.91177773
00:06:33.800 --> 00:06:34.620 young population.
NOTE Confidence: 0.9042551
00:06:35.480 --> 00:06:37.160 Now thirty years after you
NOTE Confidence: 0.9042551
00:06:37.160 --> 00:06:37.660 started,
NOTE Confidence: 0.9989125
00:06:38.120 --> 00:06:39.020 there's over
NOTE Confidence: 0.9046286

00:06:39.320 --> 00:06:40.700 twenty five hundred,
NOTE Confidence: 0.96560895

00:06:41.535 --> 00:06:43.214 individuals who took part in
NOTE Confidence: 0.96560895

00:06:43.214 --> 00:06:44.735 these studies. They are now
NOTE Confidence: 0.96560895

00:06:44.735 --> 00:06:46.495 in their twenties, thirties, and
NOTE Confidence: 0.96560895

00:06:46.495 --> 00:06:49.055 forties. And I'm curious what
NOTE Confidence: 0.96560895

00:06:49.055 --> 00:06:50.255 you would want them to
NOTE Confidence: 0.96560895

00:06:50.255 --> 00:06:51.074 know now.
NOTE Confidence: 0.9718295

00:06:51.535 --> 00:06:52.895 And we both know that
NOTE Confidence: 0.9718295

00:06:52.895 --> 00:06:54.029 we we care how they're
NOTE Confidence: 0.9718295

00:06:54.029 --> 00:06:54.990 doing now, which is one
NOTE Confidence: 0.9718295

00:06:54.990 --> 00:06:56.029 of the reasons I've got
NOTE Confidence: 0.9718295

00:06:56.029 --> 00:06:57.810 involved as an adult endocrinologist.
NOTE Confidence: 0.9629325

00:06:58.589 --> 00:06:59.470 But are there things that
NOTE Confidence: 0.9629325

00:06:59.470 --> 00:07:00.430 you would want them to
NOTE Confidence: 0.9629325

00:07:00.430 --> 00:07:02.270 know? Yeah. This is very
NOTE Confidence: 0.9629325

00:07:02.430 --> 00:07:04.370 the continuity of this problem

NOTE Confidence: 0.9629325

00:07:04.430 --> 00:07:06.370 is very important because, unfortunately,

NOTE Confidence: 0.9768345

00:07:07.365 --> 00:07:08.805 up to twenty one, the

NOTE Confidence: 0.9768345

00:07:08.805 --> 00:07:10.885 pediatrician gets out from the

NOTE Confidence: 0.9768345

00:07:11.045 --> 00:07:12.405 so I cannot connect with

NOTE Confidence: 0.9768345

00:07:12.405 --> 00:07:13.305 them anymore.

NOTE Confidence: 0.9976874

00:07:13.685 --> 00:07:15.285 So having a person in

NOTE Confidence: 0.9976874

00:07:15.285 --> 00:07:15.945 the field,

NOTE Confidence: 0.90401316

00:07:16.645 --> 00:07:17.145 endocrinologist

NOTE Confidence: 0.8119051

00:07:17.685 --> 00:07:19.065 and knows and knows metabolism,

NOTE Confidence: 0.8119051

00:07:19.205 --> 00:07:20.405 I think, is important. And

NOTE Confidence: 0.8119051

00:07:20.405 --> 00:07:21.785 if we can and

NOTE Confidence: 0.9030236

00:07:22.085 --> 00:07:23.310 our goal is to reach

NOTE Confidence: 0.9030236

00:07:23.310 --> 00:07:25.090 out to these people particularly

NOTE Confidence: 0.90831083

00:07:25.949 --> 00:07:26.430 in,

NOTE Confidence: 0.9945935

00:07:26.830 --> 00:07:28.689 some aspects of the problem

NOTE Confidence: 0.9945935

00:07:28.830 --> 00:07:30.050 to see if we can
NOTE Confidence: 0.9485242

00:07:30.830 --> 00:07:32.270 see where are they. Are
NOTE Confidence: 0.9485242

00:07:32.270 --> 00:07:34.189 they having problems? And is
NOTE Confidence: 0.9485242

00:07:34.509 --> 00:07:35.469 and some of them have
NOTE Confidence: 0.9485242

00:07:35.469 --> 00:07:36.930 developed type two diabetes
NOTE Confidence: 0.98909825

00:07:37.535 --> 00:07:39.635 and other issues now because,
NOTE Confidence: 0.98016095

00:07:40.255 --> 00:07:40.835 you know,
NOTE Confidence: 0.8996688

00:07:41.215 --> 00:07:42.495 they have their own family,
NOTE Confidence: 0.8996688

00:07:42.495 --> 00:07:44.815 they have, the obesity does
NOTE Confidence: 0.8996688

00:07:44.815 --> 00:07:45.715 not go away,
NOTE Confidence: 0.99725944

00:07:46.895 --> 00:07:48.354 and the type two diabetes
NOTE Confidence: 0.99725944

00:07:48.415 --> 00:07:49.074 as well.
NOTE Confidence: 0.97431284

00:07:49.500 --> 00:07:50.860 So it would be very
NOTE Confidence: 0.97431284

00:07:50.860 --> 00:07:52.080 important to have,
NOTE Confidence: 0.98859876

00:07:52.460 --> 00:07:53.740 based on what we saw
NOTE Confidence: 0.98859876

00:07:53.740 --> 00:07:55.660 when they were adolescent, what's

NOTE Confidence: 0.98859876
00:07:55.660 --> 00:07:57.120 happening now also,
NOTE Confidence: 0.94787115
00:07:57.660 --> 00:07:59.420 and what best how best
NOTE Confidence: 0.94787115
00:07:59.420 --> 00:08:00.860 we can treat them. I
NOTE Confidence: 0.94787115
00:08:00.860 --> 00:08:01.755 would love to know where
NOTE Confidence: 0.94787115
00:08:01.755 --> 00:08:02.415 they're doing,
NOTE Confidence: 0.9653202
00:08:02.794 --> 00:08:03.995 you know, some of them
NOTE Confidence: 0.9653202
00:08:03.995 --> 00:08:05.115 I know because they come
NOTE Confidence: 0.9653202
00:08:05.195 --> 00:08:06.735 they have other younger
NOTE Confidence: 0.93257594
00:08:07.514 --> 00:08:08.955 brothers and sisters that are
NOTE Confidence: 0.93257594
00:08:08.955 --> 00:08:10.014 still in my clinic.
NOTE Confidence: 0.9791908
00:08:10.794 --> 00:08:12.735 But those that have, matured,
NOTE Confidence: 0.942814
00:08:13.435 --> 00:08:14.875 they have kids, they're on
NOTE Confidence: 0.942814
00:08:14.875 --> 00:08:15.695 their own.
NOTE Confidence: 0.9640727
00:08:16.060 --> 00:08:17.820 And that's important because also
NOTE Confidence: 0.9640727
00:08:17.820 --> 00:08:19.520 you don't wanna, you know,
NOTE Confidence: 0.79022515

00:08:20.220 --> 00:08:20.940 have this,
NOTE Confidence: 0.9722619
00:08:21.500 --> 00:08:22.860 type two diabetes and go
NOTE Confidence: 0.9722619
00:08:22.860 --> 00:08:24.539 into pregnancy and things like
NOTE Confidence: 0.9722619
00:08:24.539 --> 00:08:27.120 that. It's another very important
NOTE Confidence: 0.9722619
00:08:27.180 --> 00:08:28.380 area that I don't see
NOTE Confidence: 0.9722619
00:08:28.380 --> 00:08:29.680 a lot of work there.
NOTE Confidence: 0.9722619
00:08:29.925 --> 00:08:31.044 So there is a great
NOTE Confidence: 0.9722619
00:08:31.044 --> 00:08:31.445 deal of,
NOTE Confidence: 0.96796846
00:08:32.725 --> 00:08:33.225 research.
NOTE Confidence: 0.910287
00:08:33.605 --> 00:08:35.324 We are, I think, in
NOTE Confidence: 0.910287
00:08:35.324 --> 00:08:36.665 a moment in
NOTE Confidence: 0.9157284
00:08:37.125 --> 00:08:39.125 research and in science now
NOTE Confidence: 0.9157284
00:08:39.125 --> 00:08:40.425 to understand that
NOTE Confidence: 0.99903786
00:08:40.885 --> 00:08:41.385 overweight
NOTE Confidence: 0.9980087
00:08:41.765 --> 00:08:43.065 and obesity
NOTE Confidence: 0.96247286
00:08:43.889 --> 00:08:45.410 is there and is not

NOTE Confidence: 0.96247286
00:08:45.410 --> 00:08:47.029 gonna go away. The key
NOTE Confidence: 0.96247286
00:08:47.170 --> 00:08:48.610 issue is why. It's always
NOTE Confidence: 0.96247286
00:08:48.610 --> 00:08:50.129 the weight that has to
NOTE Confidence: 0.96247286
00:08:50.129 --> 00:08:50.790 go down
NOTE Confidence: 0.9388969
00:08:51.170 --> 00:08:52.370 in order to see that,
NOTE Confidence: 0.9388969
00:08:52.370 --> 00:08:54.230 you know, your glucose tolerance
NOTE Confidence: 0.9388969
00:08:54.290 --> 00:08:54.949 is better.
NOTE Confidence: 0.94906193
00:08:55.889 --> 00:08:57.410 The the liver is doing
NOTE Confidence: 0.94906193
00:08:57.410 --> 00:08:57.910 better.
NOTE Confidence: 0.96785325
00:08:58.804 --> 00:09:00.404 And and so that's that
NOTE Confidence: 0.96785325
00:09:00.404 --> 00:09:01.705 would be a major step.
NOTE Confidence: 0.9936688
00:09:02.165 --> 00:09:03.684 And the goal our goal
NOTE Confidence: 0.9936688
00:09:03.684 --> 00:09:05.065 is really to stop
NOTE Confidence: 0.8974161
00:09:05.445 --> 00:09:07.225 the diabetes, type two diabetes
NOTE Confidence: 0.8974161
00:09:07.285 --> 00:09:08.485 in youth because it's a
NOTE Confidence: 0.8974161

00:09:08.485 --> 00:09:10.184 it's a silent disease.
NOTE Confidence: 0.9593429

00:09:11.700 --> 00:09:13.059 And if you don't take
NOTE Confidence: 0.9593429

00:09:13.059 --> 00:09:14.580 good care, you're gonna they're
NOTE Confidence: 0.9593429

00:09:14.580 --> 00:09:16.580 gonna have most likely some
NOTE Confidence: 0.9593429

00:09:16.580 --> 00:09:18.339 issues later on, you know?
NOTE Confidence: 0.9593429

00:09:18.339 --> 00:09:19.620 And I believe also from
NOTE Confidence: 0.9593429

00:09:19.620 --> 00:09:21.620 your work, a side message
NOTE Confidence: 0.9593429

00:09:21.620 --> 00:09:23.380 that comes through is that
NOTE Confidence: 0.9593429

00:09:23.380 --> 00:09:24.740 not all children are equally
NOTE Confidence: 0.9593429

00:09:24.740 --> 00:09:26.245 at risk and we never
NOTE Confidence: 0.9593429

00:09:26.245 --> 00:09:27.304 want to overtreat
NOTE Confidence: 0.99913806

00:09:27.845 --> 00:09:29.144 those who never needed
NOTE Confidence: 0.93955463

00:09:29.445 --> 00:09:30.885 it. Yeah. It it was
NOTE Confidence: 0.93955463

00:09:30.885 --> 00:09:31.385 clearly
NOTE Confidence: 0.9241117

00:09:31.764 --> 00:09:33.285 that it was that the
NOTE Confidence: 0.9241117

00:09:33.285 --> 00:09:35.605 disease of diabetes would start

NOTE Confidence: 0.9241117
00:09:35.605 --> 00:09:36.824 after they had,
NOTE Confidence: 0.8984828
00:09:37.204 --> 00:09:39.225 the early puberty adult puberty.
NOTE Confidence: 0.96589196
00:09:39.800 --> 00:09:40.920 So they were the mean
NOTE Confidence: 0.96589196
00:09:40.920 --> 00:09:41.980 age was thirteen.
NOTE Confidence: 0.9605391
00:09:42.759 --> 00:09:43.500 You seldom
NOTE Confidence: 0.87302476
00:09:43.879 --> 00:09:45.819 was seeing, you know, very
NOTE Confidence: 0.87302476
00:09:46.040 --> 00:09:47.259 early diabetes
NOTE Confidence: 0.91523236
00:09:48.040 --> 00:09:50.279 in pre pubertal kids. It's
NOTE Confidence: 0.91523236
00:09:50.279 --> 00:09:51.720 very rare. But it was
NOTE Confidence: 0.91523236
00:09:51.720 --> 00:09:53.579 there when they were in
NOTE Confidence: 0.91523236
00:09:53.639 --> 00:09:54.620 in adolescence.
NOTE Confidence: 0.9820563
00:09:56.275 --> 00:09:56.775 Prediabetes
NOTE Confidence: 0.937571
00:09:57.155 --> 00:09:57.955 is very,
NOTE Confidence: 0.9661281
00:09:58.355 --> 00:09:59.235 easy for,
NOTE Confidence: 0.91567093
00:09:59.795 --> 00:10:01.255 for kids, particularly,
NOTE Confidence: 0.91056657

00:10:01.555 --> 00:10:03.155 I would say boys, going
NOTE Confidence: 0.91056657

00:10:03.155 --> 00:10:04.435 back to normal. So we
NOTE Confidence: 0.91056657

00:10:04.435 --> 00:10:05.315 have a paper in in
NOTE Confidence: 0.91056657

00:10:05.315 --> 00:10:05.975 the Lancet
NOTE Confidence: 0.87771213

00:10:07.155 --> 00:10:08.130 showing that,
NOTE Confidence: 0.8884326

00:10:09.170 --> 00:10:10.929 after two years, what was
NOTE Confidence: 0.8884326

00:10:10.929 --> 00:10:12.390 happening to the cohort?
NOTE Confidence: 0.9666123

00:10:12.770 --> 00:10:13.890 Do they still have the
NOTE Confidence: 0.9666123

00:10:13.890 --> 00:10:16.050 prediabetes or not? But a
NOTE Confidence: 0.9666123

00:10:16.050 --> 00:10:16.530 good,
NOTE Confidence: 0.8681732

00:10:16.929 --> 00:10:18.690 sixty percent went back and
NOTE Confidence: 0.8681732

00:10:18.690 --> 00:10:20.050 but they were all, I
NOTE Confidence: 0.8681732

00:10:20.050 --> 00:10:21.970 have to say, white going
NOTE Confidence: 0.8681732

00:10:21.970 --> 00:10:22.470 back
NOTE Confidence: 0.96840394

00:10:23.084 --> 00:10:25.425 to, to the normal state
NOTE Confidence: 0.93143445

00:10:26.845 --> 00:10:28.204 as opposed to the African

NOTE Confidence: 0.93143445
00:10:28.204 --> 00:10:30.225 American that had full blown
NOTE Confidence: 0.8779302
00:10:30.845 --> 00:10:31.745 type two diabetes.
NOTE Confidence: 0.91080046
00:10:33.564 --> 00:10:34.384 And girls.
NOTE Confidence: 0.98174256
00:10:35.485 --> 00:10:35.985 Girls.
NOTE Confidence: 0.9235622
00:10:36.610 --> 00:10:37.570 The girls who are the
NOTE Confidence: 0.9235622
00:10:37.570 --> 00:10:38.929 most Yeah. The most at
NOTE Confidence: 0.9235622
00:10:38.929 --> 00:10:41.030 risk for the diabetes. Yeah.
NOTE Confidence: 0.95197856
00:10:41.490 --> 00:10:43.010 And your work looked into
NOTE Confidence: 0.95197856
00:10:43.010 --> 00:10:44.450 the genetics. Right? When you
NOTE Confidence: 0.95197856
00:10:44.450 --> 00:10:45.890 see in clinic, that's in
NOTE Confidence: 0.95197856
00:10:45.890 --> 00:10:47.510 in in our clinic, basically,
NOTE Confidence: 0.9981018
00:10:48.770 --> 00:10:49.750 a child with
NOTE Confidence: 0.8757995
00:10:50.130 --> 00:10:52.161 an elevated ALT and and,
NOTE Confidence: 0.8757995
00:10:52.455 --> 00:10:53.335 an old and and a
NOTE Confidence: 0.8757995
00:10:53.654 --> 00:10:55.654 and PDFF, an assessment of
NOTE Confidence: 0.8757995

00:10:55.654 --> 00:10:57.434 the fat in the liver,
NOTE Confidence: 0.8757995

00:10:57.654 --> 00:10:59.115 and you confirm it.
NOTE Confidence: 0.8167544

00:10:59.575 --> 00:11:00.554 And then then
NOTE Confidence: 0.9047227

00:11:01.015 --> 00:11:02.535 the problem is how on
NOTE Confidence: 0.9047227

00:11:02.535 --> 00:11:04.295 earth, how common is that
NOTE Confidence: 0.9047227

00:11:04.295 --> 00:11:06.110 at that age, and
NOTE Confidence: 0.9780749

00:11:06.490 --> 00:11:07.070 why why,
NOTE Confidence: 0.93771595

00:11:07.850 --> 00:11:08.809 are are the father and
NOTE Confidence: 0.93771595

00:11:08.809 --> 00:11:09.870 mother also
NOTE Confidence: 0.8550503

00:11:10.330 --> 00:11:11.550 having the same issues?
NOTE Confidence: 0.9802409

00:11:11.929 --> 00:11:14.270 And again, it's strongly dependent
NOTE Confidence: 0.9802409

00:11:14.330 --> 00:11:16.010 on the ethnic background of
NOTE Confidence: 0.9802409

00:11:16.010 --> 00:11:16.750 the kid.
NOTE Confidence: 0.96761143

00:11:17.574 --> 00:11:19.035 Yes. Because of the genetic
NOTE Confidence: 0.96761143

00:11:19.095 --> 00:11:20.454 contributions that would have come
NOTE Confidence: 0.96761143

00:11:20.454 --> 00:11:22.535 in. Your work was also

NOTE Confidence: 0.96761143
00:11:22.535 --> 00:11:24.054 done in collaboration with others
NOTE Confidence: 0.96761143
00:11:24.054 --> 00:11:25.975 like Mary Savoy and doing
NOTE Confidence: 0.96761143
00:11:25.975 --> 00:11:27.654 the very important work with,
NOTE Confidence: 0.96761143
00:11:27.894 --> 00:11:28.634 Bright Bodies,
NOTE Confidence: 0.9997888
00:11:29.095 --> 00:11:29.595 offering
NOTE Confidence: 0.9908324
00:11:30.214 --> 00:11:30.714 exercise
NOTE Confidence: 0.9968554
00:11:31.649 --> 00:11:32.149 programs
NOTE Confidence: 0.97185504
00:11:32.690 --> 00:11:34.070 and ways of thinking about
NOTE Confidence: 0.97185504
00:11:34.370 --> 00:11:36.529 physical activity and food. I
NOTE Confidence: 0.97185504
00:11:36.529 --> 00:11:37.809 wonder where you think that
NOTE Confidence: 0.97185504
00:11:37.809 --> 00:11:39.010 plays a role in the
NOTE Confidence: 0.97185504
00:11:39.010 --> 00:11:39.510 overall
NOTE Confidence: 0.9625055
00:11:40.370 --> 00:11:41.570 lifespan. I think it would
NOTE Confidence: 0.9625055
00:11:41.570 --> 00:11:43.410 be very important to keep
NOTE Confidence: 0.9625055
00:11:43.410 --> 00:11:45.269 on go going this program
NOTE Confidence: 0.9625055

00:11:45.410 --> 00:11:47.584 because if you catch and
NOTE Confidence: 0.9625055

00:11:47.644 --> 00:11:48.144 educate
NOTE Confidence: 0.96905863

00:11:49.084 --> 00:11:50.865 the family and the kids
NOTE Confidence: 0.96905863

00:11:50.925 --> 00:11:51.824 very early,
NOTE Confidence: 0.9775096

00:11:52.365 --> 00:11:54.045 to understand that the future
NOTE Confidence: 0.9775096

00:11:54.045 --> 00:11:55.904 can, you know, be tough,
NOTE Confidence: 0.9271797

00:11:56.605 --> 00:11:57.345 not necessarily,
NOTE Confidence: 0.99713993

00:11:57.884 --> 00:11:59.004 but if you do it
NOTE Confidence: 0.99713993

00:11:59.004 --> 00:11:59.504 early,
NOTE Confidence: 0.9636359

00:11:59.809 --> 00:12:01.410 I think the chance that
NOTE Confidence: 0.9636359

00:12:01.410 --> 00:12:02.550 really the child
NOTE Confidence: 0.8256572

00:12:03.010 --> 00:12:03.829 would listen
NOTE Confidence: 0.97126186

00:12:04.130 --> 00:12:05.570 to Mary or, you know,
NOTE Confidence: 0.97126186

00:12:05.570 --> 00:12:06.709 the other people that,
NOTE Confidence: 0.963978

00:12:07.889 --> 00:12:09.570 are doing this program, they
NOTE Confidence: 0.963978

00:12:09.570 --> 00:12:11.490 might stay with the child

NOTE Confidence: 0.963978
00:12:11.490 --> 00:12:13.010 and the family and not
NOTE Confidence: 0.963978
00:12:13.010 --> 00:12:15.029 get to a desperate condition.
NOTE Confidence: 0.9159153
00:12:15.915 --> 00:12:17.195 It's like a sponge, the
NOTE Confidence: 0.9159153
00:12:17.195 --> 00:12:18.154 child, you know. When they're
NOTE Confidence: 0.9159153
00:12:18.154 --> 00:12:19.455 very young, they absorb
NOTE Confidence: 0.98120415
00:12:20.315 --> 00:12:21.515 what is good for them
NOTE Confidence: 0.98120415
00:12:21.515 --> 00:12:22.335 and not.
NOTE Confidence: 0.9815614
00:12:22.955 --> 00:12:23.915 And that's what we have
NOTE Confidence: 0.9815614
00:12:23.915 --> 00:12:25.275 to prepare to this new
NOTE Confidence: 0.9815614
00:12:25.275 --> 00:12:25.775 generation.
NOTE Confidence: 0.97007436
00:12:26.235 --> 00:12:27.915 There's an important window of
NOTE Confidence: 0.97007436
00:12:27.915 --> 00:12:28.415 time
NOTE Confidence: 0.9346193
00:12:28.940 --> 00:12:30.079 where we can be.
NOTE Confidence: 0.9776676
00:12:30.380 --> 00:12:31.899 Yeah. I think that window
NOTE Confidence: 0.9776676
00:12:31.899 --> 00:12:33.899 is very important because these
NOTE Confidence: 0.9776676

00:12:33.899 --> 00:12:35.339 kids, most of them are
NOTE Confidence: 0.9776676

00:12:35.339 --> 00:12:36.800 growing up. You know why?
NOTE Confidence: 0.892787

00:12:37.179 --> 00:12:39.019 And and and increasing their
NOTE Confidence: 0.892787

00:12:39.019 --> 00:12:40.079 weight? The snacking.
NOTE Confidence: 0.98298204

00:12:40.860 --> 00:12:42.720 Snacking is the big problem
NOTE Confidence: 0.98298204

00:12:42.779 --> 00:12:43.839 that they're facing.
NOTE Confidence: 0.9754968

00:12:44.140 --> 00:12:45.045 Yes. But we have a
NOTE Confidence: 0.9754968

00:12:45.045 --> 00:12:47.125 lot of environment encouragements for
NOTE Confidence: 0.9754968

00:12:47.125 --> 00:12:48.804 snacking. We have to protect
NOTE Confidence: 0.9754968

00:12:48.804 --> 00:12:50.585 them and let them understand
NOTE Confidence: 0.9754968

00:12:50.804 --> 00:12:52.345 that there are good snacks,
NOTE Confidence: 0.9671373

00:12:52.725 --> 00:12:54.265 fairly few of them,
NOTE Confidence: 0.9555519

00:12:54.885 --> 00:12:56.105 but not you cannot
NOTE Confidence: 0.97439986

00:12:56.405 --> 00:12:58.325 live on snacking. Snacking is
NOTE Confidence: 0.97439986

00:12:58.325 --> 00:12:59.940 becoming the meal for the
NOTE Confidence: 0.97439986

00:12:59.940 --> 00:13:01.540 kids now. The way our

NOTE Confidence: 0.97439986
00:13:01.540 --> 00:13:03.220 bodies see food very early
NOTE Confidence: 0.97439986
00:13:03.220 --> 00:13:04.820 in life will program how
NOTE Confidence: 0.97439986
00:13:04.820 --> 00:13:06.020 we continue to see it
NOTE Confidence: 0.97439986
00:13:06.020 --> 00:13:07.380 later on. We have to
NOTE Confidence: 0.97439986
00:13:07.380 --> 00:13:08.900 be honest because we are
NOTE Confidence: 0.97439986
00:13:08.900 --> 00:13:10.200 reaching really
NOTE Confidence: 0.9132054
00:13:11.940 --> 00:13:13.460 a sad moment, I would
NOTE Confidence: 0.9132054
00:13:13.460 --> 00:13:15.225 say. Yes, for our food
NOTE Confidence: 0.9132054
00:13:15.225 --> 00:13:16.585 environment. Yes, because they are
NOTE Confidence: 0.9132054
00:13:16.585 --> 00:13:17.565 very attracting,
NOTE Confidence: 0.93973094
00:13:18.905 --> 00:13:20.365 they're full of salt.
NOTE Confidence: 0.91795
00:13:20.905 --> 00:13:22.745 They know they're smarter than
NOTE Confidence: 0.91795
00:13:22.745 --> 00:13:24.345 we are, these people making
NOTE Confidence: 0.91795
00:13:24.345 --> 00:13:25.245 these foods,
NOTE Confidence: 0.93872625
00:13:25.785 --> 00:13:27.865 attracting their, their taste and,
NOTE Confidence: 0.93872625

00:13:27.865 --> 00:13:29.139 and things like that. But
NOTE Confidence: 0.93872625

00:13:29.139 --> 00:13:30.899 these are young kids. So
NOTE Confidence: 0.93872625

00:13:30.899 --> 00:13:32.420 having taken care of so
NOTE Confidence: 0.93872625

00:13:32.420 --> 00:13:33.320 many of these,
NOTE Confidence: 0.97557944

00:13:33.779 --> 00:13:35.320 children and and adolescents,
NOTE Confidence: 0.99678516

00:13:35.940 --> 00:13:37.320 through their growing years,
NOTE Confidence: 0.99823284

00:13:37.779 --> 00:13:39.320 what is your worst fears
NOTE Confidence: 0.99823284

00:13:39.459 --> 00:13:41.540 about what adulthood has for
NOTE Confidence: 0.99823284

00:13:41.540 --> 00:13:42.040 them?
NOTE Confidence: 0.9994272

00:13:42.595 --> 00:13:43.095 Well,
NOTE Confidence: 0.9734966

00:13:43.635 --> 00:13:44.835 I have to say that
NOTE Confidence: 0.9734966

00:13:44.835 --> 00:13:46.515 the experience that we had
NOTE Confidence: 0.9734966

00:13:46.515 --> 00:13:48.115 and we saw what was
NOTE Confidence: 0.9734966

00:13:48.115 --> 00:13:48.615 happening
NOTE Confidence: 0.942497

00:13:49.235 --> 00:13:50.355 in the kids that were
NOTE Confidence: 0.942497

00:13:50.434 --> 00:13:52.355 have been enrolled in the

NOTE Confidence: 0.942497
00:13:52.355 --> 00:13:53.975 today's study, basically.
NOTE Confidence: 0.9291819
00:13:55.050 --> 00:13:57.050 And you you saw that
NOTE Confidence: 0.9291819
00:13:57.050 --> 00:13:59.790 the major complication were already
NOTE Confidence: 0.9291819
00:13:59.850 --> 00:14:01.050 at the age of twenty
NOTE Confidence: 0.9291819
00:14:01.050 --> 00:14:02.030 five there.
NOTE Confidence: 0.9272854
00:14:02.490 --> 00:14:03.870 That means the kidney,
NOTE Confidence: 0.8689048
00:14:04.170 --> 00:14:05.710 some of them have severe
NOTE Confidence: 0.8689048
00:14:05.850 --> 00:14:06.345 depression
NOTE Confidence: 0.6731063
00:14:08.024 --> 00:14:08.985 the other one was,
NOTE Confidence: 0.48663434
00:14:09.785 --> 00:14:10.605 the fat ear.
NOTE Confidence: 0.8493188
00:14:12.504 --> 00:14:14.345 So these are three conditions
NOTE Confidence: 0.8493188
00:14:14.345 --> 00:14:14.904 that are,
NOTE Confidence: 0.84845144
00:14:16.264 --> 00:14:18.444 appearing at a very relatively
NOTE Confidence: 0.84845144
00:14:18.584 --> 00:14:19.725 very young age.
NOTE Confidence: 0.9478202
00:14:20.730 --> 00:14:21.710 In the thirties,
NOTE Confidence: 0.9540505

00:14:22.410 --> 00:14:24.250 twenty five, thirty years. And

NOTE Confidence: 0.9540505

00:14:24.250 --> 00:14:25.790 again, this was,

NOTE Confidence: 0.9694838

00:14:26.330 --> 00:14:27.370 thanks to the,

NOTE Confidence: 0.8818279

00:14:29.290 --> 00:14:30.830 the help from the NIH.

NOTE Confidence: 0.8818279

00:14:31.050 --> 00:14:31.550 NIDDK

NOTE Confidence: 0.95521307

00:14:32.090 --> 00:14:34.225 really embarked in, I would

NOTE Confidence: 0.95521307

00:14:34.225 --> 00:14:35.665 say, twelve years of work

NOTE Confidence: 0.95521307

00:14:35.665 --> 00:14:36.325 we did

NOTE Confidence: 0.99749136

00:14:36.785 --> 00:14:37.765 in that area

NOTE Confidence: 0.98431855

00:14:38.385 --> 00:14:39.745 to find out that these

NOTE Confidence: 0.98431855

00:14:39.745 --> 00:14:40.805 kids are

NOTE Confidence: 0.99656004

00:14:41.105 --> 00:14:42.165 marching towards

NOTE Confidence: 0.9852938

00:14:42.545 --> 00:14:43.605 early complications.

NOTE Confidence: 0.9700337

00:14:44.385 --> 00:14:45.665 So we don't want that

NOTE Confidence: 0.9700337

00:14:45.665 --> 00:14:47.265 to happen. We have to

NOTE Confidence: 0.9700337

00:14:47.265 --> 00:14:48.005 stop that

NOTE Confidence: 0.99714935

00:14:48.519 --> 00:14:49.560 because I think there is

NOTE Confidence: 0.99714935

00:14:49.560 --> 00:14:51.579 enough knowledge for us

NOTE Confidence: 0.9929793

00:14:51.880 --> 00:14:53.019 to understand and

NOTE Confidence: 0.9697945

00:14:54.120 --> 00:14:56.200 diagnose early the the issues

NOTE Confidence: 0.9697945

00:14:56.200 --> 00:14:57.959 and stop it. Yes. I

NOTE Confidence: 0.9697945

00:14:57.959 --> 00:14:59.800 I also think of where

NOTE Confidence: 0.9697945

00:14:59.800 --> 00:15:01.339 the direction needs to head,

NOTE Confidence: 0.9697945

00:15:01.399 --> 00:15:02.600 what we need to know,

NOTE Confidence: 0.9697945

00:15:02.600 --> 00:15:04.135 and what next needs to

NOTE Confidence: 0.9697945

00:15:04.135 --> 00:15:04.795 be done.

NOTE Confidence: 0.96760815

00:15:05.175 --> 00:15:06.695 And you've been hard at

NOTE Confidence: 0.96760815

00:15:06.695 --> 00:15:08.395 work thinking about the medications,

NOTE Confidence: 0.9883455

00:15:09.095 --> 00:15:11.015 both for the children and

NOTE Confidence: 0.9883455

00:15:11.015 --> 00:15:12.215 for the adults as they

NOTE Confidence: 0.9883455

00:15:12.215 --> 00:15:13.175 grow up. And one of

NOTE Confidence: 0.9883455

00:15:13.175 --> 00:15:14.295 the studies you're doing is
NOTE Confidence: 0.9883455

00:15:14.295 --> 00:15:14.955 on semaglutide,
NOTE Confidence: 0.9954003

00:15:15.415 --> 00:15:16.955 which will have great impact.
NOTE Confidence: 0.9972023

00:15:17.335 --> 00:15:19.035 What things do you believe
NOTE Confidence: 0.99891686

00:15:19.410 --> 00:15:20.450 still need to be done
NOTE Confidence: 0.99891686

00:15:20.450 --> 00:15:21.970 in the field? There is
NOTE Confidence: 0.99891686

00:15:21.970 --> 00:15:23.089 a lot that we need
NOTE Confidence: 0.99891686

00:15:23.089 --> 00:15:23.829 to understand
NOTE Confidence: 0.8849208

00:15:24.290 --> 00:15:25.829 because even with this,
NOTE Confidence: 0.9857585

00:15:26.529 --> 00:15:28.690 wonderful new medication that are
NOTE Confidence: 0.9857585

00:15:28.690 --> 00:15:29.589 coming out,
NOTE Confidence: 0.99292076

00:15:30.050 --> 00:15:30.370 which,
NOTE Confidence: 0.9964988

00:15:31.170 --> 00:15:32.290 it's the first time that
NOTE Confidence: 0.9964988

00:15:32.290 --> 00:15:33.730 we we are seeing some
NOTE Confidence: 0.9964988

00:15:33.730 --> 00:15:34.630 very good
NOTE Confidence: 0.9993305

00:15:35.125 --> 00:15:36.725 improvement on the weight of

NOTE Confidence: 0.9993305
00:15:36.725 --> 00:15:37.384 a person
NOTE Confidence: 0.8966034
00:15:37.685 --> 00:15:39.045 that we never seen that.
NOTE Confidence: 0.8966034
00:15:39.045 --> 00:15:39.704 I mean,
NOTE Confidence: 0.98512214
00:15:40.324 --> 00:15:41.225 very rarely.
NOTE Confidence: 0.9871443
00:15:42.644 --> 00:15:44.324 And and and not only
NOTE Confidence: 0.9871443
00:15:44.324 --> 00:15:46.084 it's just the weight that
NOTE Confidence: 0.9871443
00:15:46.084 --> 00:15:48.084 we are addressing, for example,
NOTE Confidence: 0.9871443
00:15:48.084 --> 00:15:49.305 and this is valid
NOTE Confidence: 0.96131873
00:15:49.620 --> 00:15:51.860 both, in kids and in
NOTE Confidence: 0.96131873
00:15:51.860 --> 00:15:53.140 in adults. Of course, the
NOTE Confidence: 0.96131873
00:15:53.140 --> 00:15:54.760 adults are ahead of us
NOTE Confidence: 0.9632297
00:15:55.460 --> 00:15:57.860 because, it takes time really
NOTE Confidence: 0.9632297
00:15:57.860 --> 00:15:58.920 to convince,
NOTE Confidence: 0.92457676
00:16:00.100 --> 00:16:02.180 that there is a young
NOTE Confidence: 0.92457676
00:16:02.340 --> 00:16:04.180 a younger population that needs
NOTE Confidence: 0.92457676

00:16:04.180 --> 00:16:05.325 also some help.
NOTE Confidence: 0.9491428

00:16:06.285 --> 00:16:07.965 So we started to use,
NOTE Confidence: 0.9491428

00:16:07.965 --> 00:16:09.325 for example, in this trial
NOTE Confidence: 0.9491428

00:16:09.325 --> 00:16:10.385 that we're doing now,
NOTE Confidence: 0.54681027

00:16:12.151 --> 00:16:12.651 is,
NOTE Confidence: 0.76196694

00:16:13.405 --> 00:16:14.225 with semaglutide,
NOTE Confidence: 0.93307793

00:16:14.685 --> 00:16:16.385 like I said, Ozempicor
NOTE Confidence: 0.90659666

00:16:16.845 --> 00:16:17.745 or Wegovy.
NOTE Confidence: 0.92665005

00:16:18.285 --> 00:16:20.045 We chose Wegovy because it's
NOTE Confidence: 0.92665005

00:16:20.045 --> 00:16:21.540 the focus is on obesity.
NOTE Confidence: 0.9976967

00:16:22.000 --> 00:16:23.540 But we it's a mechanistic
NOTE Confidence: 0.9921171

00:16:24.000 --> 00:16:25.520 study that we're doing because
NOTE Confidence: 0.9921171

00:16:25.520 --> 00:16:26.560 we wanna see whether the
NOTE Confidence: 0.9921171

00:16:26.560 --> 00:16:27.060 medication
NOTE Confidence: 0.93961865

00:16:27.840 --> 00:16:28.980 is also affecting,
NOTE Confidence: 0.99932754

00:16:29.520 --> 00:16:30.660 fat in the liver

NOTE Confidence: 0.9863472
00:16:31.360 --> 00:16:32.340 and the prediabetes.
NOTE Confidence: 0.91687626
00:16:33.135 --> 00:16:34.095 The study that we are
NOTE Confidence: 0.91687626
00:16:34.095 --> 00:16:34.995 doing hopefully
NOTE Confidence: 0.9857581
00:16:35.855 --> 00:16:37.535 will show whether, you know,
NOTE Confidence: 0.9857581
00:16:37.535 --> 00:16:38.975 the fat in the liver
NOTE Confidence: 0.9857581
00:16:38.975 --> 00:16:40.355 and and, the prediabetes
NOTE Confidence: 0.9829959
00:16:41.215 --> 00:16:43.535 are sensitive to this, the
NOTE Confidence: 0.9829959
00:16:43.535 --> 00:16:44.035 semaglutide.
NOTE Confidence: 0.93693453
00:16:45.320 --> 00:16:46.620 And, and
NOTE Confidence: 0.9031081
00:16:47.000 --> 00:16:48.200 that would be a major
NOTE Confidence: 0.9031081
00:16:48.200 --> 00:16:49.320 step, I would say, in
NOTE Confidence: 0.9031081
00:16:49.320 --> 00:16:49.980 the field.
NOTE Confidence: 0.9941758
00:16:50.840 --> 00:16:52.540 We need better medication
NOTE Confidence: 0.9324702
00:16:53.240 --> 00:16:54.520 and just like, you know,
NOTE Confidence: 0.9324702
00:16:54.520 --> 00:16:56.120 the blood pressure or other
NOTE Confidence: 0.9324702

00:16:56.120 --> 00:16:57.820 issues that we take forever,
NOTE Confidence: 0.9324702

00:16:57.960 --> 00:16:58.780 these medication,
NOTE Confidence: 0.999403

00:16:59.285 --> 00:17:00.345 We have to convince
NOTE Confidence: 0.98489255

00:17:00.885 --> 00:17:02.325 that this is totally normal
NOTE Confidence: 0.98489255

00:17:02.325 --> 00:17:04.185 to treat overweight and obesity
NOTE Confidence: 0.98489255

00:17:04.484 --> 00:17:06.265 with an injectable or none.
NOTE Confidence: 0.98489255

00:17:06.405 --> 00:17:08.325 Another big issue is the
NOTE Confidence: 0.98489255

00:17:08.325 --> 00:17:09.625 cost of the medication
NOTE Confidence: 0.95200676

00:17:10.165 --> 00:17:12.085 so that we forget about
NOTE Confidence: 0.95200676

00:17:12.085 --> 00:17:13.410 it, but many of us
NOTE Confidence: 0.95200676

00:17:13.490 --> 00:17:14.770 will never be able to
NOTE Confidence: 0.95200676

00:17:14.770 --> 00:17:15.670 afford it.
NOTE Confidence: 0.9596425

00:17:16.609 --> 00:17:17.730 So there has to be
NOTE Confidence: 0.9596425

00:17:17.730 --> 00:17:18.869 something down
NOTE Confidence: 0.7442062

00:17:19.490 --> 00:17:19.990 because,
NOTE Confidence: 0.9915836

00:17:21.250 --> 00:17:22.070 it's it's

NOTE Confidence: 0.95574874

00:17:23.250 --> 00:17:25.350 to see obesity or overweight

NOTE Confidence: 0.95574874

00:17:25.490 --> 00:17:27.270 as a disease is serious.

NOTE Confidence: 0.982029

00:17:28.095 --> 00:17:29.455 And the drug that they

NOTE Confidence: 0.982029

00:17:29.455 --> 00:17:30.195 are making,

NOTE Confidence: 0.97347516

00:17:30.815 --> 00:17:32.575 the the new drugs are

NOTE Confidence: 0.97347516

00:17:32.575 --> 00:17:34.975 all injectable and too too

NOTE Confidence: 0.97347516

00:17:34.975 --> 00:17:36.895 expensive for us for any

NOTE Confidence: 0.97347516

00:17:36.895 --> 00:17:37.795 one of us.

NOTE Confidence: 0.96095175

00:17:38.335 --> 00:17:39.295 So I don't know the

NOTE Confidence: 0.96095175

00:17:39.295 --> 00:17:41.395 future. This is happening particularly

NOTE Confidence: 0.96095175

00:17:41.535 --> 00:17:42.355 in US.

NOTE Confidence: 0.99904484

00:17:42.840 --> 00:17:44.280 In Europe, I know it's

NOTE Confidence: 0.99904484

00:17:44.280 --> 00:17:45.960 totally different. The cost is

NOTE Confidence: 0.99904484

00:17:45.960 --> 00:17:46.859 much less

NOTE Confidence: 0.99923396

00:17:47.240 --> 00:17:48.540 than what we are

NOTE Confidence: 0.84883004

00:17:48.920 --> 00:17:50.920 fighting for now here in
NOTE Confidence: 0.84883004
00:17:50.920 --> 00:17:51.740 the US.
NOTE Confidence: 0.9411855
00:17:52.359 --> 00:17:54.840 Yes. And I appreciate very
NOTE Confidence: 0.9411855
00:17:54.840 --> 00:17:55.185 much,
NOTE Confidence: 0.9569335
00:17:56.385 --> 00:17:58.465 your encouragement. I love talking
NOTE Confidence: 0.9569335
00:17:58.465 --> 00:17:59.825 to you and and to
NOTE Confidence: 0.9569335
00:17:59.825 --> 00:18:01.425 continue the research that we
NOTE Confidence: 0.9569335
00:18:01.425 --> 00:18:03.185 did because many of these,
NOTE Confidence: 0.99938285
00:18:03.585 --> 00:18:04.085 women
NOTE Confidence: 0.9905021
00:18:04.465 --> 00:18:06.145 basically need your help a
NOTE Confidence: 0.9905021
00:18:06.145 --> 00:18:06.645 lot
NOTE Confidence: 0.9976864
00:18:07.440 --> 00:18:09.779 to avoid much more complicated
NOTE Confidence: 0.86380184
00:18:11.119 --> 00:18:13.359 situation that believing in. Thank
NOTE Confidence: 0.86380184
00:18:13.359 --> 00:18:15.119 you, doctor Caprio, for this
NOTE Confidence: 0.86380184
00:18:15.119 --> 00:18:16.399 time with you. Thank you
NOTE Confidence: 0.86380184
00:18:16.399 --> 00:18:16.899 all.