

WEBVTT

NOTE duration: "01:00:23.497"

NOTE Confidence: 0.99245995

00:00:00.160 --> 00:00:01.699 Good afternoon, everyone.

NOTE Confidence: 0.99725103

00:00:02.080 --> 00:00:04.080 May I have your attention,

NOTE Confidence: 0.99725103

00:00:04.080 --> 00:00:04.580 please?

NOTE Confidence: 0.9872694

00:00:05.200 --> 00:00:07.060 It is my great pleasure

NOTE Confidence: 0.9872694

00:00:07.200 --> 00:00:08.720 to have the honor of

NOTE Confidence: 0.9872694

00:00:08.720 --> 00:00:11.599 introducing Christine Cha. I'm honored

NOTE Confidence: 0.9872694

00:00:11.599 --> 00:00:12.660 in two regards.

NOTE Confidence: 0.9386876

00:00:13.039 --> 00:00:13.540 One,

NOTE Confidence: 0.95975786

00:00:14.045 --> 00:00:15.405 as a member of this

NOTE Confidence: 0.95975786

00:00:15.405 --> 00:00:17.005 department that I'm very, very

NOTE Confidence: 0.95975786

00:00:17.005 --> 00:00:18.285 happy she is a colleague

NOTE Confidence: 0.95975786

00:00:18.285 --> 00:00:20.204 in. Two, as a director

NOTE Confidence: 0.95975786

00:00:20.204 --> 00:00:21.645 of the Center for Brain

NOTE Confidence: 0.95975786

00:00:21.645 --> 00:00:23.085 and Mind Health that I'm

NOTE Confidence: 0.95975786

00:00:23.085 --> 00:00:24.525 very happy helped to recruit
NOTE Confidence: 0.95975786

00:00:24.525 --> 00:00:25.965 her. So Christine is a
NOTE Confidence: 0.95975786

00:00:25.965 --> 00:00:27.025 brand new phenotype,
NOTE Confidence: 0.95696497

00:00:27.404 --> 00:00:28.525 not just in our department,
NOTE Confidence: 0.95696497

00:00:28.525 --> 00:00:29.505 but at Yale,
NOTE Confidence: 0.949366

00:00:30.199 --> 00:00:31.480 a joint recruit between the
NOTE Confidence: 0.949366

00:00:31.480 --> 00:00:32.520 Child Study Center and the
NOTE Confidence: 0.949366

00:00:32.520 --> 00:00:33.399 Center for Brain and Mind
NOTE Confidence: 0.949366

00:00:33.399 --> 00:00:35.500 Health, which is oriented towards,
NOTE Confidence: 0.99976987

00:00:35.960 --> 00:00:37.960 using neuroscience to improve patient
NOTE Confidence: 0.99976987

00:00:37.960 --> 00:00:38.460 care.
NOTE Confidence: 0.99237895

00:00:39.960 --> 00:00:41.640 Christine embodies the ideals of
NOTE Confidence: 0.99237895

00:00:41.640 --> 00:00:42.835 both the department and the
NOTE Confidence: 0.99237895

00:00:42.835 --> 00:00:44.854 center. She is a clinician.
NOTE Confidence: 0.99237895

00:00:44.915 --> 00:00:46.435 She's a clinical psychologist by
NOTE Confidence: 0.99237895

00:00:46.435 --> 00:00:47.635 training, and her clinical work

NOTE Confidence: 0.99237895
00:00:47.635 --> 00:00:48.935 is focused on suicide
NOTE Confidence: 0.8857109
00:00:49.555 --> 00:00:49.955 and,
NOTE Confidence: 0.99743295
00:00:50.675 --> 00:00:52.835 self injury in youth. Her
NOTE Confidence: 0.99743295
00:00:52.835 --> 00:00:53.335 research
NOTE Confidence: 0.99974036
00:00:53.795 --> 00:00:55.475 is aligned with her clinical
NOTE Confidence: 0.99974036
00:00:55.475 --> 00:00:55.800 work.
NOTE Confidence: 0.9801579
00:00:56.280 --> 00:00:57.980 Her research is is really
NOTE Confidence: 0.9801579
00:00:58.040 --> 00:00:59.480 interesting in its,
NOTE Confidence: 0.9979387
00:01:00.600 --> 00:01:02.120 in how programmatic it is,
NOTE Confidence: 0.9979387
00:01:02.120 --> 00:01:03.480 how innovative it is, and
NOTE Confidence: 0.9979387
00:01:03.480 --> 00:01:05.400 how integrative it is. She
NOTE Confidence: 0.9979387
00:01:05.400 --> 00:01:06.380 studies assessment
NOTE Confidence: 0.9935492
00:01:06.840 --> 00:01:08.920 of suicidal behavior. She studies
NOTE Confidence: 0.9935492
00:01:08.920 --> 00:01:09.819 how to predict
NOTE Confidence: 0.99951005
00:01:10.125 --> 00:01:10.625 suicidal
NOTE Confidence: 0.95038784

00:01:11.005 --> 00:01:12.125 behavior, and then she studies
NOTE Confidence: 0.95038784

00:01:12.125 --> 00:01:13.565 how to intervene. And she
NOTE Confidence: 0.95038784

00:01:13.565 --> 00:01:14.685 does this using really a
NOTE Confidence: 0.95038784

00:01:14.685 --> 00:01:15.905 diversity of tools,
NOTE Confidence: 0.9947635

00:01:16.285 --> 00:01:17.905 you know, from parent questionnaires
NOTE Confidence: 0.9947635

00:01:18.045 --> 00:01:18.705 to neurofeedback,
NOTE Confidence: 0.98730993

00:01:19.005 --> 00:01:19.965 which I think is pretty
NOTE Confidence: 0.98730993

00:01:19.965 --> 00:01:21.185 cool and is
NOTE Confidence: 0.950809

00:01:22.240 --> 00:01:23.200 really aligned with the way
NOTE Confidence: 0.950809

00:01:23.200 --> 00:01:24.400 we do work here as
NOTE Confidence: 0.950809

00:01:24.400 --> 00:01:25.780 well as in the center.
NOTE Confidence: 0.950809

00:01:25.840 --> 00:01:27.600 Christine has, a stellar track
NOTE Confidence: 0.950809

00:01:27.600 --> 00:01:29.120 record. She got her PhD
NOTE Confidence: 0.950809

00:01:29.120 --> 00:01:30.720 from Harvard, did her residency
NOTE Confidence: 0.950809

00:01:30.720 --> 00:01:31.860 as a at Brown.
NOTE Confidence: 0.99250495

00:01:32.319 --> 00:01:32.819 She

NOTE Confidence: 0.98711157
00:01:34.175 --> 00:01:34.895 she then,
NOTE Confidence: 0.9001582
00:01:35.535 --> 00:01:36.735 she accept accepted a faculty
NOTE Confidence: 0.9001582
00:01:36.735 --> 00:01:38.595 position right out at Columbia.
NOTE Confidence: 0.9896253
00:01:39.215 --> 00:01:40.915 We then recruited her here.
NOTE Confidence: 0.9896253
00:01:41.055 --> 00:01:42.015 We have to be careful
NOTE Confidence: 0.9896253
00:01:42.015 --> 00:01:42.815 because I think there's one
NOTE Confidence: 0.9896253
00:01:42.815 --> 00:01:43.775 or two Ivy League she
NOTE Confidence: 0.9896253
00:01:43.775 --> 00:01:45.615 hasn't yet worked at, so
NOTE Confidence: 0.9896253
00:01:45.615 --> 00:01:46.895 we may be at risk
NOTE Confidence: 0.9896253
00:01:46.895 --> 00:01:48.390 for losing her. She has
NOTE Confidence: 0.9896253
00:01:48.390 --> 00:01:49.990 received many accolades. I won't
NOTE Confidence: 0.9896253
00:01:49.990 --> 00:01:51.190 name them all. Among them,
NOTE Confidence: 0.9896253
00:01:51.190 --> 00:01:51.910 for those of you who
NOTE Confidence: 0.9896253
00:01:51.910 --> 00:01:53.290 are psychological researchers,
NOTE Confidence: 0.9836887
00:01:53.670 --> 00:01:55.030 she received the rising star
NOTE Confidence: 0.9836887

00:01:55.030 --> 00:01:56.310 award from APS, which is
NOTE Confidence: 0.9836887

00:01:56.310 --> 00:01:57.110 really one of the most
NOTE Confidence: 0.9836887

00:01:57.110 --> 00:01:58.630 prestigious awards that someone could
NOTE Confidence: 0.9836887

00:01:58.630 --> 00:01:59.985 get early in their career
NOTE Confidence: 0.9836887

00:02:00.065 --> 00:02:01.445 and is so well deserved.
NOTE Confidence: 0.9011753

00:02:01.985 --> 00:02:02.385 She,
NOTE Confidence: 0.9830231

00:02:02.865 --> 00:02:04.165 many of you may collaborate
NOTE Confidence: 0.9830231

00:02:04.225 --> 00:02:05.905 with her already, and she's
NOTE Confidence: 0.9830231

00:02:05.905 --> 00:02:07.265 only been here a short
NOTE Confidence: 0.9830231

00:02:07.265 --> 00:02:08.385 period of time. She is
NOTE Confidence: 0.9830231

00:02:08.385 --> 00:02:09.044 an extremely
NOTE Confidence: 0.9988304

00:02:09.425 --> 00:02:09.925 enthusiastic
NOTE Confidence: 0.9620488

00:02:10.305 --> 00:02:11.025 there are a few times
NOTE Confidence: 0.9620488

00:02:11.025 --> 00:02:11.745 when one can use the
NOTE Confidence: 0.9620488

00:02:11.745 --> 00:02:13.025 word promiscuous and has a
NOTE Confidence: 0.9620488

00:02:13.025 --> 00:02:14.465 positive connotation. She is a

NOTE Confidence: 0.9620488
00:02:14.465 --> 00:02:14.965 promiscuous
NOTE Confidence: 0.8945406
00:02:15.264 --> 00:02:15.764 collaborator,
NOTE Confidence: 0.99021864
00:02:16.120 --> 00:02:17.500 and that is outstanding.
NOTE Confidence: 0.9828312
00:02:17.800 --> 00:02:18.680 And I feel like if
NOTE Confidence: 0.9828312
00:02:18.680 --> 00:02:19.800 I'm gonna time when to
NOTE Confidence: 0.9828312
00:02:19.800 --> 00:02:20.600 actually get her at the
NOTE Confidence: 0.9828312
00:02:20.600 --> 00:02:21.820 podium based on embarrassment,
NOTE Confidence: 0.99887216
00:02:22.280 --> 00:02:22.940 right now.
NOTE Confidence: 0.9816798
00:02:30.295 --> 00:02:31.495 Thank you so much. Thank
NOTE Confidence: 0.9816798
00:02:31.495 --> 00:02:32.615 you, Jamie, and thank you
NOTE Confidence: 0.9816798
00:02:32.615 --> 00:02:34.215 everyone for for being here
NOTE Confidence: 0.9816798
00:02:34.215 --> 00:02:35.355 and for tuning in.
NOTE Confidence: 0.8577422
00:02:37.255 --> 00:02:39.275 So hopefully my slides behave.
NOTE Confidence: 0.9987081
00:02:40.055 --> 00:02:40.555 Okay.
NOTE Confidence: 0.98618317
00:02:41.110 --> 00:02:42.410 So as Jamie mentioned,
NOTE Confidence: 0.97442687

00:02:42.710 --> 00:02:43.910 I am relatively new to
NOTE Confidence: 0.97442687

00:02:43.910 --> 00:02:45.530 Yale. I started in September.
NOTE Confidence: 0.99593574

00:02:46.310 --> 00:02:46.950 And I thought I would
NOTE Confidence: 0.99593574

00:02:46.950 --> 00:02:48.150 just share a few things
NOTE Confidence: 0.99593574

00:02:48.150 --> 00:02:48.889 about myself,
NOTE Confidence: 0.9458187

00:02:49.350 --> 00:02:50.570 on a personal note,
NOTE Confidence: 0.8791705

00:02:51.110 --> 00:02:52.150 just to say that while
NOTE Confidence: 0.8791705

00:02:52.150 --> 00:02:52.740 I'm new to Yale, I'm
NOTE Confidence: 0.8791705

00:02:52.740 --> 00:02:52.790 not entirely new to New
NOTE Confidence: 0.8791705

00:02:52.790 --> 00:02:53.030 Haven,
NOTE Confidence: 0.9123362

00:02:55.844 --> 00:02:56.485 having been born and raised
NOTE Confidence: 0.9123362

00:02:56.485 --> 00:02:58.165 in Connecticut and New Haven
NOTE Confidence: 0.9123362

00:02:58.165 --> 00:02:59.525 County. So on some level,
NOTE Confidence: 0.9123362

00:02:59.764 --> 00:03:01.224 it's nice to come home.
NOTE Confidence: 0.99191403

00:03:02.484 --> 00:03:02.984 And
NOTE Confidence: 0.9518506

00:03:03.284 --> 00:03:04.325 Jane already mentioned this. I'm

NOTE Confidence: 0.9518506
00:03:04.325 --> 00:03:05.944 a clinical psychologist by training,
NOTE Confidence: 0.9595968
00:03:06.575 --> 00:03:08.019 and I'm really proud to
NOTE Confidence: 0.9595968
00:03:08.019 --> 00:03:09.060 have been hired through a
NOTE Confidence: 0.9595968
00:03:09.060 --> 00:03:10.340 partnership between the Center for
NOTE Confidence: 0.9595968
00:03:10.340 --> 00:03:11.220 Brain and Mind Health and
NOTE Confidence: 0.9595968
00:03:11.220 --> 00:03:12.760 the Child Study Center here.
NOTE Confidence: 0.9838322
00:03:13.700 --> 00:03:15.139 And I've conducted research on
NOTE Confidence: 0.9838322
00:03:15.139 --> 00:03:17.239 youth suicide risk, and prevention
NOTE Confidence: 0.9838322
00:03:17.299 --> 00:03:18.419 both in and out of
NOTE Confidence: 0.9838322
00:03:18.419 --> 00:03:19.400 hospital settings,
NOTE Confidence: 0.99910486
00:03:19.860 --> 00:03:20.895 for about twenty years.
NOTE Confidence: 0.9986472
00:03:21.455 --> 00:03:22.835 And one thing I'll mention
NOTE Confidence: 0.9986472
00:03:22.895 --> 00:03:23.715 at the outset,
NOTE Confidence: 0.99823636
00:03:24.095 --> 00:03:25.135 given the topic that we're
NOTE Confidence: 0.99823636
00:03:25.135 --> 00:03:26.675 gonna be talking about today,
NOTE Confidence: 0.9987967

00:03:27.455 --> 00:03:28.255 is just kind of the
NOTE Confidence: 0.9987967

00:03:28.255 --> 00:03:29.535 lens with which I,
NOTE Confidence: 0.97082484

00:03:30.014 --> 00:03:31.395 I approach this work.
NOTE Confidence: 0.98506975

00:03:32.255 --> 00:03:33.240 So kind of on a
NOTE Confidence: 0.98506975

00:03:33.400 --> 00:03:35.160 personal professional note, I consider
NOTE Confidence: 0.98506975

00:03:35.160 --> 00:03:36.380 myself to be a constructive
NOTE Confidence: 0.98506975

00:03:36.600 --> 00:03:37.100 optimist.
NOTE Confidence: 0.9941976

00:03:38.200 --> 00:03:39.640 And it's you know, while
NOTE Confidence: 0.9941976

00:03:39.640 --> 00:03:40.680 we're gonna be,
NOTE Confidence: 0.96593297

00:03:41.080 --> 00:03:42.380 kind of grappling with this
NOTE Confidence: 0.96593297

00:03:42.440 --> 00:03:43.740 challenging topic of suicide,
NOTE Confidence: 0.98432785

00:03:44.360 --> 00:03:46.300 it's accompanied with the hopeful
NOTE Confidence: 0.98432785

00:03:46.360 --> 00:03:48.120 progress, that we're making to
NOTE Confidence: 0.98432785

00:03:48.120 --> 00:03:49.745 address this public health concern.
NOTE Confidence: 0.9979259

00:03:51.645 --> 00:03:53.345 So to provide some context,
NOTE Confidence: 0.9969282

00:03:53.805 --> 00:03:55.325 my work in youth suicide

NOTE Confidence: 0.9969282
00:03:55.325 --> 00:03:56.865 research has led to,
NOTE Confidence: 0.99971473
00:03:57.405 --> 00:03:59.005 over five hundred encounters with
NOTE Confidence: 0.99971473
00:03:59.005 --> 00:03:59.985 at risk individuals
NOTE Confidence: 0.98880845
00:04:00.285 --> 00:04:01.345 across the lifespan.
NOTE Confidence: 0.99852544
00:04:02.069 --> 00:04:03.209 And so these encounters,
NOTE Confidence: 0.99797404
00:04:03.670 --> 00:04:05.110 have ranged from talking to
NOTE Confidence: 0.99797404
00:04:05.110 --> 00:04:06.790 a fifteen year old who
NOTE Confidence: 0.99797404
00:04:06.790 --> 00:04:08.550 are who's openly disclosing their
NOTE Confidence: 0.99797404
00:04:08.550 --> 00:04:10.069 suicidal thoughts for the first
NOTE Confidence: 0.99797404
00:04:10.069 --> 00:04:10.870 time in their life to
NOTE Confidence: 0.99797404
00:04:10.870 --> 00:04:12.010 somebody on the phone,
NOTE Confidence: 0.98403525
00:04:13.110 --> 00:04:14.569 to meeting with a teenager
NOTE Confidence: 0.98403525
00:04:14.629 --> 00:04:15.670 while they're in the inpatient
NOTE Confidence: 0.98403525
00:04:15.670 --> 00:04:17.370 unit following a recent suicide
NOTE Confidence: 0.9632718
00:04:17.925 --> 00:04:19.605 attempt, to speaking with someone
NOTE Confidence: 0.9632718

00:04:19.605 --> 00:04:20.725 who is an active and
NOTE Confidence: 0.9632718

00:04:20.725 --> 00:04:22.325 acute crisis during in the
NOTE Confidence: 0.9632718

00:04:22.325 --> 00:04:23.385 midst of a conversation,
NOTE Confidence: 0.9935496

00:04:24.485 --> 00:04:26.085 and to bring front and
NOTE Confidence: 0.9935496

00:04:26.085 --> 00:04:27.925 center, what these moments feel
NOTE Confidence: 0.9935496

00:04:27.925 --> 00:04:28.665 like. Obviously,
NOTE Confidence: 0.9553383

00:04:29.205 --> 00:04:30.825 these these moments can feel,
NOTE Confidence: 0.94248503

00:04:31.979 --> 00:04:33.759 our experience in unique ways.
NOTE Confidence: 0.99024624

00:04:34.139 --> 00:04:36.460 But to focus on one
NOTE Confidence: 0.99024624

00:04:36.460 --> 00:04:36.960 particular,
NOTE Confidence: 0.9602953

00:04:37.500 --> 00:04:38.000 individual,
NOTE Confidence: 0.9968693

00:04:38.779 --> 00:04:39.740 I spoke with a young
NOTE Confidence: 0.9968693

00:04:39.740 --> 00:04:42.139 gentleman who recently described his
NOTE Confidence: 0.9968693

00:04:42.139 --> 00:04:43.199 lowest of lows
NOTE Confidence: 0.97243536

00:04:43.660 --> 00:04:44.620 as a feeling that he
NOTE Confidence: 0.97243536

00:04:44.620 --> 00:04:46.165 gets in his chest, where

NOTE Confidence: 0.97243536
00:04:46.165 --> 00:04:47.605 everything is loud and chaotic
NOTE Confidence: 0.97243536
00:04:47.605 --> 00:04:48.645 and it can feel like
NOTE Confidence: 0.97243536
00:04:48.645 --> 00:04:49.765 being caught in a storm
NOTE Confidence: 0.97243536
00:04:49.765 --> 00:04:50.745 with no cover.
NOTE Confidence: 0.9841509
00:04:51.445 --> 00:04:53.065 And this particular teenager,
NOTE Confidence: 0.9997398
00:04:53.365 --> 00:04:54.265 being an artist,
NOTE Confidence: 0.97913295
00:04:54.885 --> 00:04:56.485 created and shared this image
NOTE Confidence: 0.97913295
00:04:56.485 --> 00:04:58.085 conveying his experience with me
NOTE Confidence: 0.97913295
00:04:58.085 --> 00:04:58.905 in my lab.
NOTE Confidence: 0.9574304
00:05:00.900 --> 00:05:01.940 And he's not the only
NOTE Confidence: 0.9574304
00:05:01.940 --> 00:05:02.980 one, as many of you
NOTE Confidence: 0.9574304
00:05:02.980 --> 00:05:03.480 know.
NOTE Confidence: 0.9584648
00:05:03.860 --> 00:05:05.380 Approximately one in five youth
NOTE Confidence: 0.9584648
00:05:05.380 --> 00:05:07.000 around the world experience suicidal
NOTE Confidence: 0.9584648
00:05:07.060 --> 00:05:07.560 thoughts,
NOTE Confidence: 0.97335714

00:05:08.420 --> 00:05:09.460 and the thoughts of hurting
NOTE Confidence: 0.97335714

00:05:09.460 --> 00:05:10.660 themselves as well as ending
NOTE Confidence: 0.97335714

00:05:10.660 --> 00:05:11.400 their life.
NOTE Confidence: 0.9675339

00:05:12.100 --> 00:05:13.140 And these types of thoughts
NOTE Confidence: 0.9675339

00:05:13.140 --> 00:05:15.025 and feelings emerge commonly and
NOTE Confidence: 0.9675339

00:05:15.025 --> 00:05:15.525 rapidly,
NOTE Confidence: 0.92208785

00:05:16.065 --> 00:05:18.225 throughout adolescence, highlighted in yellow
NOTE Confidence: 0.92208785

00:05:18.225 --> 00:05:18.725 on,
NOTE Confidence: 0.9737862

00:05:19.185 --> 00:05:20.625 where you see this rapid
NOTE Confidence: 0.9737862

00:05:20.625 --> 00:05:22.545 rise in first time instances
NOTE Confidence: 0.9737862

00:05:22.545 --> 00:05:24.545 of experiencing suicidal thoughts shown
NOTE Confidence: 0.9737862

00:05:24.545 --> 00:05:25.685 on the left hand side,
NOTE Confidence: 0.9737862

00:05:25.745 --> 00:05:26.464 as well as on the
NOTE Confidence: 0.9737862

00:05:26.464 --> 00:05:27.825 right hand side, a steep
NOTE Confidence: 0.9737862

00:05:27.825 --> 00:05:29.425 rise in suicide death rates
NOTE Confidence: 0.9737862

00:05:29.425 --> 00:05:30.520 between the age of ten

NOTE Confidence: 0.9737862
00:05:30.520 --> 00:05:31.500 to twenty years.
NOTE Confidence: 0.99594194
00:05:32.839 --> 00:05:34.520 Concerns are further amplified when
NOTE Confidence: 0.99594194
00:05:34.520 --> 00:05:36.520 observing suicide death rates in
NOTE Confidence: 0.99594194
00:05:36.520 --> 00:05:37.960 the context of other injury
NOTE Confidence: 0.99594194
00:05:37.960 --> 00:05:38.460 related,
NOTE Confidence: 0.9645785
00:05:39.000 --> 00:05:40.600 deaths over time. So take
NOTE Confidence: 0.9645785
00:05:40.600 --> 00:05:42.600 Connecticut, for example, when we
NOTE Confidence: 0.9645785
00:05:42.600 --> 00:05:44.185 observe rates of death by
NOTE Confidence: 0.9645785
00:05:44.185 --> 00:05:46.365 motor vehicle suicide and homicide
NOTE Confidence: 0.9605587
00:05:46.745 --> 00:05:48.764 over the past, several decades,
NOTE Confidence: 0.8867978
00:05:49.464 --> 00:05:50.685 where in recent years,
NOTE Confidence: 0.97942287
00:05:51.225 --> 00:05:52.505 we see suicide shown in
NOTE Confidence: 0.97942287
00:05:52.505 --> 00:05:54.025 light green emerging as the
NOTE Confidence: 0.97942287
00:05:54.025 --> 00:05:55.705 leading cause of injury related
NOTE Confidence: 0.97942287
00:05:55.705 --> 00:05:56.585 death in the state of
NOTE Confidence: 0.97942287

00:05:56.585 --> 00:05:57.085 Connecticut,
NOTE Confidence: 0.99761873
00:05:57.490 --> 00:05:58.850 and this being indicative of
NOTE Confidence: 0.99761873
00:05:58.850 --> 00:06:00.290 trends across the country as
NOTE Confidence: 0.99761873
00:06:00.290 --> 00:06:00.790 well.
NOTE Confidence: 0.9917313
00:06:01.889 --> 00:06:03.570 And suicide remains the second
NOTE Confidence: 0.9917313
00:06:03.570 --> 00:06:05.010 leading cause of death among
NOTE Confidence: 0.9917313
00:06:05.010 --> 00:06:06.610 adolescents and young adults, both
NOTE Confidence: 0.9917313
00:06:06.610 --> 00:06:07.970 in Connecticut and in the
NOTE Confidence: 0.9917313
00:06:07.970 --> 00:06:08.470 US.
NOTE Confidence: 0.99664086
00:06:09.010 --> 00:06:10.210 And so at both a
NOTE Confidence: 0.99664086
00:06:10.210 --> 00:06:11.729 local and a national level,
NOTE Confidence: 0.99664086
00:06:11.729 --> 00:06:13.355 there's clearly an urgent need
NOTE Confidence: 0.99664086
00:06:13.355 --> 00:06:14.635 to address this public health
NOTE Confidence: 0.99664086
00:06:14.635 --> 00:06:15.135 concern.
NOTE Confidence: 0.9850217
00:06:16.715 --> 00:06:18.335 Now to add further context,
NOTE Confidence: 0.9984668
00:06:18.875 --> 00:06:20.075 I thought I'd provide a

NOTE Confidence: 0.9984668
00:06:20.075 --> 00:06:20.975 quick snapshot
NOTE Confidence: 0.98056835
00:06:21.435 --> 00:06:23.115 of prior research efforts to
NOTE Confidence: 0.98056835
00:06:23.115 --> 00:06:24.015 address suicide.
NOTE Confidence: 0.9975533
00:06:25.639 --> 00:06:27.000 Starting with this question of
NOTE Confidence: 0.9975533
00:06:27.000 --> 00:06:29.080 prediction, which helps us determine
NOTE Confidence: 0.9975533
00:06:29.080 --> 00:06:30.139 who will consider
NOTE Confidence: 0.94291115
00:06:30.440 --> 00:06:31.720 attempt or die by suicide
NOTE Confidence: 0.94291115
00:06:31.720 --> 00:06:32.540 in the future.
NOTE Confidence: 0.9910881
00:06:33.080 --> 00:06:34.360 So what we know based
NOTE Confidence: 0.9910881
00:06:34.360 --> 00:06:35.560 on the past fifty years
NOTE Confidence: 0.9910881
00:06:35.560 --> 00:06:37.479 of longitudinal studies of suicide
NOTE Confidence: 0.9910881
00:06:37.479 --> 00:06:38.300 risk factors,
NOTE Confidence: 0.99406415
00:06:38.955 --> 00:06:40.154 is that these studies have
NOTE Confidence: 0.99406415
00:06:40.154 --> 00:06:42.235 primarily focused on demographic risk
NOTE Confidence: 0.99406415
00:06:42.235 --> 00:06:43.755 factors along with a limited
NOTE Confidence: 0.99406415

00:06:43.755 --> 00:06:45.675 repertoire of psychiatric and social
NOTE Confidence: 0.99406415

00:06:45.675 --> 00:06:47.935 risk factors, broadly listed here.
NOTE Confidence: 0.96247363

00:06:48.875 --> 00:06:50.315 A now well known meta
NOTE Confidence: 0.96247363

00:06:50.315 --> 00:06:52.475 analysis delivered sobering news several
NOTE Confidence: 0.96247363

00:06:52.475 --> 00:06:53.214 years ago,
NOTE Confidence: 0.9795696

00:06:53.770 --> 00:06:54.570 showing that we have not
NOTE Confidence: 0.9795696

00:06:54.570 --> 00:06:55.850 really gotten better and, in
NOTE Confidence: 0.9795696

00:06:55.850 --> 00:06:58.089 fact, arguably worse at predicting
NOTE Confidence: 0.9795696

00:06:58.089 --> 00:07:00.169 suicide related outcomes using such
NOTE Confidence: 0.9795696

00:07:00.169 --> 00:07:00.910 risk factors.
NOTE Confidence: 0.9863737

00:07:03.130 --> 00:07:04.570 Turning to the topic of
NOTE Confidence: 0.9863737

00:07:04.570 --> 00:07:06.729 treating and reducing suicide related
NOTE Confidence: 0.9863737

00:07:06.729 --> 00:07:08.455 outcomes. Through a separate meta
NOTE Confidence: 0.9863737

00:07:08.455 --> 00:07:09.895 analysis, my colleagues and I
NOTE Confidence: 0.9863737

00:07:09.895 --> 00:07:11.354 found a nearly exponential
NOTE Confidence: 0.9996852

00:07:11.655 --> 00:07:12.854 increase in the number of

NOTE Confidence: 0.9996852
00:07:12.854 --> 00:07:15.175 treatments for suicidal patients tested
NOTE Confidence: 0.9996852
00:07:15.175 --> 00:07:16.634 over the past fifty years.
NOTE Confidence: 0.9993442
00:07:17.014 --> 00:07:17.514 However,
NOTE Confidence: 0.9819271
00:07:17.974 --> 00:07:19.574 we also found that treatment
NOTE Confidence: 0.9819271
00:07:19.574 --> 00:07:21.514 effects remained modest at best,
NOTE Confidence: 0.9819271
00:07:21.810 --> 00:07:24.070 with treatment effects alarmingly weaker
NOTE Confidence: 0.9819271
00:07:24.210 --> 00:07:26.290 among children and adolescents compared
NOTE Confidence: 0.9819271
00:07:26.290 --> 00:07:27.270 to older populations.
NOTE Confidence: 0.9942073
00:07:28.450 --> 00:07:29.490 And so while there have
NOTE Confidence: 0.9942073
00:07:29.490 --> 00:07:30.550 been many noteworthy,
NOTE Confidence: 0.99923325
00:07:31.010 --> 00:07:32.610 approaches to addressing the problem
NOTE Confidence: 0.99923325
00:07:32.610 --> 00:07:34.290 of suicide, there's an urgent
NOTE Confidence: 0.99923325
00:07:34.290 --> 00:07:35.565 need to do better and
NOTE Confidence: 0.99923325
00:07:35.565 --> 00:07:36.685 to approach the problem of
NOTE Confidence: 0.99923325
00:07:36.685 --> 00:07:37.985 suicide in new ways.
NOTE Confidence: 0.9936098

00:07:40.045 --> 00:07:40.865 And so,
NOTE Confidence: 0.9909508
00:07:41.405 --> 00:07:42.525 my lab and,
NOTE Confidence: 0.99313176
00:07:42.925 --> 00:07:45.005 collaborative network here, at Yale
NOTE Confidence: 0.99313176
00:07:45.005 --> 00:07:46.465 are striving to do that
NOTE Confidence: 0.99313176
00:07:46.605 --> 00:07:47.745 in three ways
NOTE Confidence: 0.99893826
00:07:48.150 --> 00:07:50.230 by leveraging multiple data streams
NOTE Confidence: 0.99893826
00:07:50.230 --> 00:07:52.010 to help explain three things.
NOTE Confidence: 0.98740196
00:07:52.470 --> 00:07:54.150 First, who is at risk
NOTE Confidence: 0.98740196
00:07:54.150 --> 00:07:55.130 of hurting themselves?
NOTE Confidence: 0.9924043
00:07:55.830 --> 00:07:57.670 Second, why young people might
NOTE Confidence: 0.9924043
00:07:57.670 --> 00:07:58.570 consider suicide?
NOTE Confidence: 0.99435335
00:07:59.030 --> 00:08:00.310 And third, now what do
NOTE Confidence: 0.99435335
00:08:00.310 --> 00:08:01.590 we do to help reduce
NOTE Confidence: 0.99435335
00:08:01.590 --> 00:08:02.970 future suicide risk?
NOTE Confidence: 0.9962754
00:08:03.914 --> 00:08:04.955 And so starting with the
NOTE Confidence: 0.9962754
00:08:04.955 --> 00:08:05.995 first line of work I've

NOTE Confidence: 0.9962754
00:08:05.995 --> 00:08:07.134 pursued in the lab,
NOTE Confidence: 0.9996883
00:08:07.514 --> 00:08:08.974 I'll start with the ideal
NOTE Confidence: 0.9996883
00:08:09.034 --> 00:08:09.534 scenario
NOTE Confidence: 0.9776204
00:08:10.395 --> 00:08:12.074 that, ideally, we would have
NOTE Confidence: 0.9776204
00:08:12.074 --> 00:08:13.435 the tools to help inform
NOTE Confidence: 0.9776204
00:08:13.435 --> 00:08:15.034 clinical decision making in order
NOTE Confidence: 0.9776204
00:08:15.034 --> 00:08:16.414 to systematically identify
NOTE Confidence: 0.96720195
00:08:16.875 --> 00:08:17.995 which youth may be most
NOTE Confidence: 0.96720195
00:08:17.995 --> 00:08:19.294 likely to kill themselves,
NOTE Confidence: 0.9341637
00:08:19.729 --> 00:08:20.470 like this,
NOTE Confidence: 0.9807029
00:08:20.930 --> 00:08:22.370 so that clinicians know where
NOTE Confidence: 0.9807029
00:08:22.370 --> 00:08:24.210 to direct their attention and
NOTE Confidence: 0.9807029
00:08:24.210 --> 00:08:25.350 intervention efforts.
NOTE Confidence: 0.93384194
00:08:26.130 --> 00:08:26.949 Now, unfortunately,
NOTE Confidence: 0.99680555
00:08:27.570 --> 00:08:28.370 as many of you who
NOTE Confidence: 0.99680555

00:08:28.370 --> 00:08:29.889 have been exposed to hospital
NOTE Confidence: 0.99680555

00:08:29.889 --> 00:08:32.150 or psychiatric settings, may know,
NOTE Confidence: 0.99680555

00:08:32.210 --> 00:08:33.730 the reality of everyday risk
NOTE Confidence: 0.99680555

00:08:33.730 --> 00:08:35.615 assessment can look somewhat less
NOTE Confidence: 0.99680555

00:08:35.615 --> 00:08:36.115 orderly,
NOTE Confidence: 0.84089077

00:08:36.655 --> 00:08:37.395 and straightforward,
NOTE Confidence: 0.9306415

00:08:38.255 --> 00:08:39.955 and instead more like this.
NOTE Confidence: 0.97855633

00:08:41.295 --> 00:08:43.235 A busy place with limited
NOTE Confidence: 0.97855633

00:08:43.455 --> 00:08:45.135 time, space, and tools to
NOTE Confidence: 0.97855633

00:08:45.135 --> 00:08:46.915 make this high stakes decision,
NOTE Confidence: 0.97782165

00:08:47.259 --> 00:08:49.259 where oftentimes clinician may ask
NOTE Confidence: 0.97782165

00:08:49.259 --> 00:08:50.380 a question such as the
NOTE Confidence: 0.97782165

00:08:50.380 --> 00:08:52.059 following to assess suicide risk.
NOTE Confidence: 0.97782165

00:08:52.059 --> 00:08:53.120 So from the CSSRS,
NOTE Confidence: 0.98276997

00:08:53.579 --> 00:08:54.459 have you ever wished you
NOTE Confidence: 0.98276997

00:08:54.459 --> 00:08:55.339 were dead or wished you

NOTE Confidence: 0.98276997
00:08:55.339 --> 00:08:56.139 could go to sleep and
NOTE Confidence: 0.98276997
00:08:56.139 --> 00:08:57.040 not wake up?
NOTE Confidence: 0.9676731
00:08:57.500 --> 00:08:59.019 And then primarily relying on
NOTE Confidence: 0.9676731
00:08:59.019 --> 00:09:01.015 patient self report at times
NOTE Confidence: 0.9676731
00:09:01.015 --> 00:09:02.855 resulting in situations where a
NOTE Confidence: 0.9676731
00:09:02.855 --> 00:09:04.395 patient may say, for instance,
NOTE Confidence: 0.9676731
00:09:04.615 --> 00:09:05.675 no. I'm fine,
NOTE Confidence: 0.99756503
00:09:06.535 --> 00:09:07.575 which may or may not
NOTE Confidence: 0.99756503
00:09:07.575 --> 00:09:08.855 be aligned with their internal
NOTE Confidence: 0.99756503
00:09:08.855 --> 00:09:09.835 thoughts and emotions.
NOTE Confidence: 0.9955247
00:09:10.695 --> 00:09:11.975 Indeed, the main way in
NOTE Confidence: 0.9955247
00:09:11.975 --> 00:09:13.255 which we determine who is
NOTE Confidence: 0.9955247
00:09:13.255 --> 00:09:15.115 at risk is to ask,
NOTE Confidence: 0.9996118
00:09:15.870 --> 00:09:17.230 pointing to a heavy reliance
NOTE Confidence: 0.9996118
00:09:17.230 --> 00:09:18.290 on self report.
NOTE Confidence: 0.99722075

00:09:19.470 --> 00:09:21.230 Now I'm not suggesting to
NOTE Confidence: 0.99722075

00:09:21.230 --> 00:09:22.429 never ask a patient how
NOTE Confidence: 0.99722075

00:09:22.429 --> 00:09:23.630 they're doing. Of course, it's
NOTE Confidence: 0.99722075

00:09:23.630 --> 00:09:24.910 a given that we directly
NOTE Confidence: 0.99722075

00:09:24.910 --> 00:09:26.270 ask our patients and engage
NOTE Confidence: 0.99722075

00:09:26.270 --> 00:09:26.770 with,
NOTE Confidence: 0.99453735

00:09:27.150 --> 00:09:29.170 them around their subjective experience.
NOTE Confidence: 0.9896348

00:09:30.144 --> 00:09:31.445 But at the same time,
NOTE Confidence: 0.98453003

00:09:31.904 --> 00:09:33.024 we know that there are
NOTE Confidence: 0.98453003

00:09:33.024 --> 00:09:34.865 challenges to solely relying on
NOTE Confidence: 0.98453003

00:09:34.865 --> 00:09:36.625 self report, even in those
NOTE Confidence: 0.98453003

00:09:36.625 --> 00:09:38.225 children and adolescents engaged in
NOTE Confidence: 0.98453003

00:09:38.225 --> 00:09:38.725 treatment
NOTE Confidence: 0.98953056

00:09:39.184 --> 00:09:41.605 who don't disclose, their suicidal
NOTE Confidence: 0.98953056

00:09:41.665 --> 00:09:42.804 thoughts to their therapist.
NOTE Confidence: 0.9865327

00:09:43.340 --> 00:09:44.460 And we also see that

NOTE Confidence: 0.9865327

00:09:44.460 --> 00:09:45.980 self report assessments of suicide

NOTE Confidence: 0.9865327

00:09:45.980 --> 00:09:47.420 risk has its limitations across

NOTE Confidence: 0.9865327

00:09:47.420 --> 00:09:49.580 multiple settings, including at home

NOTE Confidence: 0.9865327

00:09:49.580 --> 00:09:51.420 and at school, with teachers

NOTE Confidence: 0.9865327

00:09:51.420 --> 00:09:53.660 and parents oftentimes underreporting the

NOTE Confidence: 0.9865327

00:09:53.660 --> 00:09:55.580 severity or extent of their

NOTE Confidence: 0.9865327

00:09:55.580 --> 00:09:57.340 suicidal of what the youth

NOTE Confidence: 0.9865327

00:09:57.340 --> 00:09:58.000 are experiencing.

NOTE Confidence: 0.95970327

00:09:59.475 --> 00:10:00.834 And we found, in a

NOTE Confidence: 0.95970327

00:10:00.834 --> 00:10:01.954 recent study led by my

NOTE Confidence: 0.95970327

00:10:01.954 --> 00:10:03.495 doctoral student Paige Spears,

NOTE Confidence: 0.9755962

00:10:04.115 --> 00:10:05.654 that one in four suicidal

NOTE Confidence: 0.9755962

00:10:05.714 --> 00:10:07.654 youth never disclose their engagement

NOTE Confidence: 0.9755962

00:10:07.714 --> 00:10:09.394 to anyone, including their most

NOTE Confidence: 0.9755962

00:10:09.394 --> 00:10:10.774 trusted personal confidants.

NOTE Confidence: 0.9948436

00:10:13.429 --> 00:10:15.270 So, to address this challenge,
NOTE Confidence: 0.9948436

00:10:15.270 --> 00:10:17.050 my lab has tested alternative
NOTE Confidence: 0.9948436

00:10:17.110 --> 00:10:18.870 suicide risk tools that do
NOTE Confidence: 0.9948436

00:10:18.870 --> 00:10:20.230 not rely solely on self
NOTE Confidence: 0.9948436

00:10:20.230 --> 00:10:22.070 report and instead rely on
NOTE Confidence: 0.9948436

00:10:22.070 --> 00:10:23.130 behavioral markers.
NOTE Confidence: 0.9740554

00:10:23.590 --> 00:10:24.790 As an example of this,
NOTE Confidence: 0.9740554

00:10:24.790 --> 00:10:26.870 we've tested patients' reaction times
NOTE Confidence: 0.9740554

00:10:26.870 --> 00:10:28.385 on the death implicit association
NOTE Confidence: 0.9740554

00:10:28.605 --> 00:10:30.684 test, a brief computerized word
NOTE Confidence: 0.9740554

00:10:30.684 --> 00:10:32.445 sorting task that examines how
NOTE Confidence: 0.9740554

00:10:32.445 --> 00:10:34.465 strongly they pair different concepts
NOTE Confidence: 0.9740554

00:10:34.525 --> 00:10:36.045 such as death and me
NOTE Confidence: 0.9740554

00:10:36.045 --> 00:10:37.245 to examine the degree of
NOTE Confidence: 0.9740554

00:10:37.245 --> 00:10:38.304 implicit identification
NOTE Confidence: 0.9960387

00:10:38.765 --> 00:10:39.505 with death.

NOTE Confidence: 0.98915267
00:10:41.130 --> 00:10:42.170 And so in the death
NOTE Confidence: 0.98915267
00:10:42.170 --> 00:10:42.670 IAT,
NOTE Confidence: 0.99399173
00:10:43.050 --> 00:10:44.670 patients view paired concepts,
NOTE Confidence: 0.9939058
00:10:45.050 --> 00:10:46.329 on the screen and are
NOTE Confidence: 0.9939058
00:10:46.329 --> 00:10:47.529 asked to sort words or
NOTE Confidence: 0.9939058
00:10:47.529 --> 00:10:48.029 pictures,
NOTE Confidence: 0.99911886
00:10:48.570 --> 00:10:50.110 as into the correct categories
NOTE Confidence: 0.99911886
00:10:50.250 --> 00:10:51.630 as fast and as accurately
NOTE Confidence: 0.99911886
00:10:51.690 --> 00:10:52.425 as they can.
NOTE Confidence: 0.9929795
00:10:52.904 --> 00:10:54.105 And the idea about this
NOTE Confidence: 0.9929795
00:10:54.105 --> 00:10:55.225 and the way it's designed
NOTE Confidence: 0.9929795
00:10:55.225 --> 00:10:56.665 is that suicidal patients would
NOTE Confidence: 0.9929795
00:10:56.665 --> 00:10:58.024 be expected to more quickly
NOTE Confidence: 0.9929795
00:10:58.024 --> 00:10:59.945 respond to the task during
NOTE Confidence: 0.9929795
00:10:59.945 --> 00:11:01.464 blocks of trials where death
NOTE Confidence: 0.9929795

00:11:01.464 --> 00:11:02.765 and me are paired together,
NOTE Confidence: 0.99843574

00:11:03.865 --> 00:11:04.904 compared to when life and
NOTE Confidence: 0.99843574

00:11:04.904 --> 00:11:05.964 me are paired together.
NOTE Confidence: 0.94671667

00:11:08.100 --> 00:11:09.700 And this seminal and now
NOTE Confidence: 0.94671667

00:11:09.700 --> 00:11:11.460 well replicated adult based work
NOTE Confidence: 0.94671667

00:11:11.460 --> 00:11:12.600 on the deaf IAT,
NOTE Confidence: 0.9282567

00:11:14.179 --> 00:11:16.100 came from, my doctoral advisor,
NOTE Confidence: 0.9282567

00:11:16.100 --> 00:11:16.840 Matt Nock.
NOTE Confidence: 0.97228396

00:11:17.220 --> 00:11:18.980 And one question as I
NOTE Confidence: 0.97228396

00:11:18.980 --> 00:11:20.100 was seeing Matt in grad
NOTE Confidence: 0.97228396

00:11:20.100 --> 00:11:21.220 school do this work that
NOTE Confidence: 0.97228396

00:11:21.220 --> 00:11:22.600 came to mind for me,
NOTE Confidence: 0.9929578

00:11:23.285 --> 00:11:25.524 was realizing that we do
NOTE Confidence: 0.9929578

00:11:25.524 --> 00:11:27.285 see and encounter suicidal or
NOTE Confidence: 0.9929578

00:11:27.285 --> 00:11:29.204 at risk patients and multiple
NOTE Confidence: 0.9929578

00:11:29.204 --> 00:11:30.184 levels of care.

NOTE Confidence: 0.99601334
00:11:30.725 --> 00:11:32.084 And it's this question of
NOTE Confidence: 0.99601334
00:11:32.084 --> 00:11:32.584 whether,
NOTE Confidence: 0.99782103
00:11:33.365 --> 00:11:34.505 a brief measure,
NOTE Confidence: 0.94039476
00:11:34.964 --> 00:11:36.345 such as the death IET
NOTE Confidence: 0.9962265
00:11:37.110 --> 00:11:38.470 delivered in an emergency room
NOTE Confidence: 0.9962265
00:11:38.470 --> 00:11:39.590 would have the same predictive
NOTE Confidence: 0.9962265
00:11:39.590 --> 00:11:40.090 validity
NOTE Confidence: 0.9982636
00:11:40.470 --> 00:11:41.990 as when delivered, let's say,
NOTE Confidence: 0.9982636
00:11:41.990 --> 00:11:43.030 in a much more neutral
NOTE Confidence: 0.9982636
00:11:43.030 --> 00:11:43.530 setting.
NOTE Confidence: 0.97674674
00:11:45.350 --> 00:11:46.790 And so my thinking around
NOTE Confidence: 0.97674674
00:11:46.790 --> 00:11:48.150 this was guided by John
NOTE Confidence: 0.97674674
00:11:48.150 --> 00:11:50.650 Teasdale's differential activation hypothesis,
NOTE Confidence: 0.977698
00:11:51.325 --> 00:11:53.084 proposing that negative mood can
NOTE Confidence: 0.977698
00:11:53.084 --> 00:11:55.505 activate maladaptive cognitive processes,
NOTE Confidence: 0.9966804

00:11:55.964 --> 00:11:57.404 begging this question of whether
NOTE Confidence: 0.9966804

00:11:57.404 --> 00:11:59.024 cognitive bias detected,
NOTE Confidence: 0.9773593

00:11:59.885 --> 00:12:01.084 by the death IAT would
NOTE Confidence: 0.9773593

00:12:01.084 --> 00:12:02.684 be more readily detectable in
NOTE Confidence: 0.9773593

00:12:02.684 --> 00:12:03.345 an activated
NOTE Confidence: 0.99051696

00:12:03.725 --> 00:12:05.309 negative mood state and more
NOTE Confidence: 0.99051696

00:12:05.309 --> 00:12:07.330 predictive of suicide related outcomes
NOTE Confidence: 0.99051696

00:12:07.470 --> 00:12:08.290 over time.
NOTE Confidence: 0.9656772

00:12:09.870 --> 00:12:10.910 And so this was in
NOTE Confidence: 0.9656772

00:12:10.910 --> 00:12:12.510 a sample of adults. We
NOTE Confidence: 0.9656772

00:12:12.510 --> 00:12:13.550 set out to test this
NOTE Confidence: 0.9656772

00:12:13.550 --> 00:12:15.390 idea in a collaboration with,
NOTE Confidence: 0.9656772

00:12:15.630 --> 00:12:16.990 Rory O'Connor at the University
NOTE Confidence: 0.9656772

00:12:16.990 --> 00:12:18.590 of Glasgow. We recruited two
NOTE Confidence: 0.9656772

00:12:18.590 --> 00:12:20.030 hundred and sixty four suicidal
NOTE Confidence: 0.9656772

00:12:20.030 --> 00:12:21.925 and non suicidal adults from

NOTE Confidence: 0.9656772
00:12:21.925 --> 00:12:23.785 both Boston and Glasgow, Scotland.
NOTE Confidence: 0.98215914
00:12:24.325 --> 00:12:25.765 And so these participants came
NOTE Confidence: 0.98215914
00:12:25.765 --> 00:12:27.125 into the lab, completed the
NOTE Confidence: 0.98215914
00:12:27.125 --> 00:12:29.045 death IAT before and after
NOTE Confidence: 0.98215914
00:12:29.045 --> 00:12:30.725 a brief negative mood induction.
NOTE Confidence: 0.98215914
00:12:30.725 --> 00:12:31.684 This was a ten minute
NOTE Confidence: 0.98215914
00:12:31.684 --> 00:12:32.825 Velton mood induction,
NOTE Confidence: 0.99790174
00:12:33.285 --> 00:12:34.485 which induced more of a
NOTE Confidence: 0.99790174
00:12:34.485 --> 00:12:34.985 negative
NOTE Confidence: 0.9517164
00:12:35.360 --> 00:12:36.820 negative valence low,
NOTE Confidence: 0.8750493
00:12:38.079 --> 00:12:38.579 arousal,
NOTE Confidence: 0.99961984
00:12:38.880 --> 00:12:39.699 mood state.
NOTE Confidence: 0.9695135
00:12:40.160 --> 00:12:41.059 I should also,
NOTE Confidence: 0.9364656
00:12:41.440 --> 00:12:42.980 mention we very actively,
NOTE Confidence: 0.9397914
00:12:44.079 --> 00:12:46.160 observed them during, the process
NOTE Confidence: 0.9397914

00:12:46.160 --> 00:12:47.540 of the negative mood induction,
NOTE Confidence: 0.9738117

00:12:47.895 --> 00:12:49.995 looked, and tracked mood recovery,
NOTE Confidence: 0.9738117

00:12:50.055 --> 00:12:51.815 and then also had safety
NOTE Confidence: 0.9738117

00:12:51.815 --> 00:12:53.895 procedures, resources, and a positive
NOTE Confidence: 0.9738117

00:12:53.895 --> 00:12:55.255 mood induction, as well as
NOTE Confidence: 0.9738117

00:12:55.255 --> 00:12:56.875 a debriefing at the conclusion
NOTE Confidence: 0.9738117

00:12:57.015 --> 00:12:57.835 of their visit.
NOTE Confidence: 0.9848176

00:13:00.149 --> 00:13:01.429 And so we wanted to
NOTE Confidence: 0.9848176

00:13:01.429 --> 00:13:03.370 see, whether or not, again,
NOTE Confidence: 0.99315363

00:13:04.230 --> 00:13:06.149 really compare their IAT scores
NOTE Confidence: 0.99315363

00:13:06.149 --> 00:13:07.429 before and after this negative
NOTE Confidence: 0.99315363

00:13:07.429 --> 00:13:08.089 mood induction.
NOTE Confidence: 0.97610325

00:13:08.550 --> 00:13:09.750 And so here, I'll show
NOTE Confidence: 0.97610325

00:13:09.750 --> 00:13:11.190 you, the pre and post
NOTE Confidence: 0.97610325

00:13:11.190 --> 00:13:12.170 induction performance
NOTE Confidence: 0.9816392

00:13:12.615 --> 00:13:14.215 with non ideators in light

NOTE Confidence: 0.9816392
00:13:14.215 --> 00:13:15.735 bars and suicide ideators in
NOTE Confidence: 0.9816392
00:13:15.735 --> 00:13:16.475 dark bars.
NOTE Confidence: 0.93013704
00:13:16.775 --> 00:13:18.215 And the higher IAT d
NOTE Confidence: 0.93013704
00:13:18.215 --> 00:13:20.295 scores indicate stronger identification with
NOTE Confidence: 0.93013704
00:13:20.295 --> 00:13:20.795 death.
NOTE Confidence: 0.95847076
00:13:21.335 --> 00:13:22.375 And so as you can
NOTE Confidence: 0.95847076
00:13:22.375 --> 00:13:24.715 see, pre induction performance yielded
NOTE Confidence: 0.95847076
00:13:24.855 --> 00:13:26.715 the expected pattern with suicide
NOTE Confidence: 0.95847076
00:13:26.775 --> 00:13:28.510 ideators in dark bars having
NOTE Confidence: 0.95847076
00:13:28.510 --> 00:13:29.950 that higher score than non
NOTE Confidence: 0.95847076
00:13:29.950 --> 00:13:30.450 ideators.
NOTE Confidence: 0.974916
00:13:30.990 --> 00:13:32.190 And the group difference was
NOTE Confidence: 0.974916
00:13:32.190 --> 00:13:33.950 significantly larger when the IIT
NOTE Confidence: 0.974916
00:13:33.950 --> 00:13:35.230 was completed in a negative
NOTE Confidence: 0.974916
00:13:35.230 --> 00:13:36.290 affective state.
NOTE Confidence: 0.990177

00:13:36.830 --> 00:13:37.710 And as you can see,
NOTE Confidence: 0.990177

00:13:37.710 --> 00:13:39.150 this was largely driven by
NOTE Confidence: 0.990177

00:13:39.150 --> 00:13:40.670 an increase in pre to
NOTE Confidence: 0.990177

00:13:40.670 --> 00:13:43.250 post performance among suicide ideators
NOTE Confidence: 0.99200445

00:13:43.605 --> 00:13:44.904 versus the non ideators.
NOTE Confidence: 0.9762571

00:13:46.245 --> 00:13:47.705 Building on these cross sectional
NOTE Confidence: 0.9762571

00:13:47.845 --> 00:13:48.345 analyses,
NOTE Confidence: 0.97182864

00:13:48.804 --> 00:13:49.684 we went on to find
NOTE Confidence: 0.97182864

00:13:49.684 --> 00:13:50.565 that it was only the
NOTE Confidence: 0.97182864

00:13:50.565 --> 00:13:52.565 post induction IT performance that
NOTE Confidence: 0.97182864

00:13:52.565 --> 00:13:54.645 predicted suicidal ideation six months
NOTE Confidence: 0.97182864

00:13:54.645 --> 00:13:56.565 later above and beyond prior
NOTE Confidence: 0.97182864

00:13:56.565 --> 00:13:57.705 history of ideation.
NOTE Confidence: 0.9612721

00:13:58.929 --> 00:14:00.610 And this for me really
NOTE Confidence: 0.9612721

00:14:00.610 --> 00:14:03.110 informed the potential clinical, implications
NOTE Confidence: 0.9612721

00:14:03.250 --> 00:14:04.309 of the death IAT,

NOTE Confidence: 0.97680026
00:14:04.850 --> 00:14:06.610 and the potential moderating effect
NOTE Confidence: 0.97680026
00:14:06.610 --> 00:14:08.470 of respondent affective state
NOTE Confidence: 0.84537774
00:14:09.009 --> 00:14:10.304 where we may want to,
NOTE Confidence: 0.9627198
00:14:10.945 --> 00:14:12.785 interpret risk assessment such as
NOTE Confidence: 0.9627198
00:14:12.785 --> 00:14:14.464 this, very differently in a
NOTE Confidence: 0.9627198
00:14:14.464 --> 00:14:16.625 more routine outpatient setting compared
NOTE Confidence: 0.9627198
00:14:16.625 --> 00:14:18.145 to a high intensity acute
NOTE Confidence: 0.9627198
00:14:18.145 --> 00:14:19.365 and potentially stressful,
NOTE Confidence: 0.9916652
00:14:19.904 --> 00:14:21.825 emergency department within hours of
NOTE Confidence: 0.9916652
00:14:21.825 --> 00:14:23.365 a suicide related crisis.
NOTE Confidence: 0.97162426
00:14:25.190 --> 00:14:26.709 And so what we did,
NOTE Confidence: 0.97162426
00:14:27.029 --> 00:14:28.889 was bring, the death IAT,
NOTE Confidence: 0.86482924
00:14:29.509 --> 00:14:31.110 to a younger, more more
NOTE Confidence: 0.86482924
00:14:31.110 --> 00:14:32.009 acute sample.
NOTE Confidence: 0.98528284
00:14:32.949 --> 00:14:34.069 And this was the youngest
NOTE Confidence: 0.98528284

00:14:34.069 --> 00:14:35.370 and most, diverse,
NOTE Confidence: 0.98924345

00:14:35.990 --> 00:14:37.850 sample of adolescent psychiatric,
NOTE Confidence: 0.9696617

00:14:38.550 --> 00:14:40.365 youth we could really find.
NOTE Confidence: 0.96685016

00:14:41.165 --> 00:14:42.525 And we administered the death
NOTE Confidence: 0.96685016

00:14:42.525 --> 00:14:43.725 IAT, those who had had
NOTE Confidence: 0.96685016

00:14:43.725 --> 00:14:45.485 medical clearance in order to
NOTE Confidence: 0.96685016

00:14:45.485 --> 00:14:46.685 be approached by our research
NOTE Confidence: 0.96685016

00:14:46.685 --> 00:14:47.185 team,
NOTE Confidence: 0.9876727

00:14:47.565 --> 00:14:49.005 and administered the death IAT
NOTE Confidence: 0.9876727

00:14:49.005 --> 00:14:50.045 to a hundred and sixty
NOTE Confidence: 0.9876727

00:14:50.045 --> 00:14:52.205 seven acutely suicidal preteens and
NOTE Confidence: 0.9876727

00:14:52.205 --> 00:14:53.825 teens presenting to the Bellevue
NOTE Confidence: 0.9151199

00:14:54.140 --> 00:14:56.080 child psychiatric emergency room.
NOTE Confidence: 0.9687684

00:14:56.460 --> 00:14:57.260 And what we found was
NOTE Confidence: 0.9687684

00:14:57.260 --> 00:14:58.620 that their death IET scores
NOTE Confidence: 0.9687684

00:14:58.620 --> 00:15:00.800 predicted which among these youth

NOTE Confidence: 0.9687684
00:15:01.020 --> 00:15:02.860 proceeded to attempt suicide six
NOTE Confidence: 0.9687684
00:15:02.860 --> 00:15:04.300 months later, being able to,
NOTE Confidence: 0.9687684
00:15:04.300 --> 00:15:05.820 in fact, distinguish who thinks
NOTE Confidence: 0.9687684
00:15:05.820 --> 00:15:06.560 about suicide
NOTE Confidence: 0.99864393
00:15:07.035 --> 00:15:08.635 from who thinks about and
NOTE Confidence: 0.99864393
00:15:08.635 --> 00:15:10.154 proceeds to act on those
NOTE Confidence: 0.99864393
00:15:10.154 --> 00:15:11.214 suicidal thoughts.
NOTE Confidence: 0.99057174
00:15:13.915 --> 00:15:15.135 And so when,
NOTE Confidence: 0.9850186
00:15:15.755 --> 00:15:16.954 pursuing this work, you may
NOTE Confidence: 0.9850186
00:15:16.954 --> 00:15:18.954 also be wondering, apart from
NOTE Confidence: 0.9850186
00:15:18.954 --> 00:15:21.150 its potential clinical utility and
NOTE Confidence: 0.9850186
00:15:21.390 --> 00:15:23.170 efficiency as a quick task,
NOTE Confidence: 0.9850186
00:15:23.470 --> 00:15:25.310 what exactly do patients see
NOTE Confidence: 0.9850186
00:15:25.310 --> 00:15:26.930 when completing the death IAT?
NOTE Confidence: 0.99322516
00:15:28.030 --> 00:15:29.070 And I don't wanna take
NOTE Confidence: 0.99322516

00:15:29.070 --> 00:15:29.730 for granted,
NOTE Confidence: 0.9906659

00:15:30.190 --> 00:15:31.790 that this reaction time task
NOTE Confidence: 0.9906659

00:15:31.790 --> 00:15:33.950 involves rapidly presenting words and
NOTE Confidence: 0.9906659

00:15:33.950 --> 00:15:35.950 sometimes images related to suicide,
NOTE Confidence: 0.9906659

00:15:35.950 --> 00:15:37.125 death, and self harm.
NOTE Confidence: 0.9981693

00:15:38.085 --> 00:15:39.125 And I should say that
NOTE Confidence: 0.9981693

00:15:39.125 --> 00:15:40.645 this wasn't in response to
NOTE Confidence: 0.9981693

00:15:40.645 --> 00:15:41.925 complaints that we were getting
NOTE Confidence: 0.9981693

00:15:41.925 --> 00:15:42.665 or feedback,
NOTE Confidence: 0.9836141

00:15:43.045 --> 00:15:44.005 that we were getting from
NOTE Confidence: 0.9836141

00:15:44.005 --> 00:15:45.845 our participants, but just from
NOTE Confidence: 0.9836141

00:15:45.845 --> 00:15:46.905 our own observation,
NOTE Confidence: 0.98036766

00:15:48.165 --> 00:15:49.685 and and just being able
NOTE Confidence: 0.98036766

00:15:49.685 --> 00:15:50.805 to to sleep a little
NOTE Confidence: 0.98036766

00:15:50.805 --> 00:15:52.150 bit better at night, really
NOTE Confidence: 0.98036766

00:15:52.150 --> 00:15:53.590 checking our assumptions as to

NOTE Confidence: 0.98036766
00:15:53.590 --> 00:15:54.810 whether or not this is
NOTE Confidence: 0.98036766
00:15:55.030 --> 00:15:56.550 an appropriate measure to be
NOTE Confidence: 0.98036766
00:15:56.550 --> 00:15:57.050 delivering.
NOTE Confidence: 0.98955536
00:15:57.510 --> 00:15:59.450 So we asked, young respondents,
NOTE Confidence: 0.99021053
00:15:59.830 --> 00:16:00.950 in one of our studies
NOTE Confidence: 0.99021053
00:16:00.950 --> 00:16:03.050 immediately before and after taking,
NOTE Confidence: 0.99210584
00:16:03.430 --> 00:16:05.270 the IAT about their current
NOTE Confidence: 0.99210584
00:16:05.270 --> 00:16:06.835 mood, their current desire to
NOTE Confidence: 0.99210584
00:16:06.835 --> 00:16:08.275 hurt themselves, and their desire
NOTE Confidence: 0.99210584
00:16:08.275 --> 00:16:08.855 to die.
NOTE Confidence: 0.9931571
00:16:10.035 --> 00:16:11.395 What we found was no
NOTE Confidence: 0.9931571
00:16:11.395 --> 00:16:12.675 significant change in mood. This
NOTE Confidence: 0.9931571
00:16:12.675 --> 00:16:13.235 was among,
NOTE Confidence: 0.97492284
00:16:13.795 --> 00:16:15.495 suicidal adolescent inpatients.
NOTE Confidence: 0.97075385
00:16:17.155 --> 00:16:18.915 No significant change in desire
NOTE Confidence: 0.97075385

00:16:18.915 --> 00:16:19.735 to hurt themselves.
NOTE Confidence: 0.9764096

00:16:20.680 --> 00:16:22.040 And essentially, based on the
NOTE Confidence: 0.9764096

00:16:22.040 --> 00:16:23.640 small effect size, no change
NOTE Confidence: 0.9764096

00:16:23.640 --> 00:16:24.760 in desire to die. I
NOTE Confidence: 0.9764096

00:16:24.760 --> 00:16:26.440 won't go ahead and make
NOTE Confidence: 0.9764096

00:16:26.440 --> 00:16:28.220 claims that we're making people
NOTE Confidence: 0.9764096

00:16:28.360 --> 00:16:30.280 less likely to, to want
NOTE Confidence: 0.9764096

00:16:30.280 --> 00:16:31.800 to die, although that's, that's
NOTE Confidence: 0.9764096

00:16:31.800 --> 00:16:33.160 what the the pattern seems
NOTE Confidence: 0.9764096

00:16:33.160 --> 00:16:34.505 to be suggesting, but essentially
NOTE Confidence: 0.9764096

00:16:34.565 --> 00:16:36.405 a flat line indicating no
NOTE Confidence: 0.9764096

00:16:36.405 --> 00:16:36.905 change.
NOTE Confidence: 0.9627876

00:16:38.645 --> 00:16:40.025 And we saw this replicated,
NOTE Confidence: 0.9824785

00:16:40.725 --> 00:16:41.925 in terms of patterns of
NOTE Confidence: 0.9824785

00:16:41.925 --> 00:16:43.125 desire to self injure and
NOTE Confidence: 0.9824785

00:16:43.125 --> 00:16:44.965 desire to die across several

NOTE Confidence: 0.9824785
00:16:44.965 --> 00:16:47.285 other samples, including web based
NOTE Confidence: 0.9824785
00:16:47.285 --> 00:16:48.839 adult respondents as well as
NOTE Confidence: 0.9824785
00:16:48.839 --> 00:16:49.339 college
NOTE Confidence: 0.99607754
00:16:49.800 --> 00:16:50.300 students.
NOTE Confidence: 0.9940702
00:16:51.079 --> 00:16:52.360 And then going back to
NOTE Confidence: 0.9940702
00:16:52.360 --> 00:16:53.579 the Bellevue ED,
NOTE Confidence: 0.9613518
00:16:53.959 --> 00:16:55.399 when we administered these same
NOTE Confidence: 0.9613518
00:16:55.399 --> 00:16:56.940 measures, we found no significant
NOTE Confidence: 0.9613518
00:16:57.000 --> 00:16:57.240 mean
NOTE Confidence: 0.95469385
00:16:57.880 --> 00:16:59.160 we we saw no change
NOTE Confidence: 0.95469385
00:16:59.160 --> 00:16:59.880 in mood.
NOTE Confidence: 0.9418527
00:17:00.440 --> 00:17:01.740 I'm sorry. A significant,
NOTE Confidence: 0.97863454
00:17:02.279 --> 00:17:04.119 improvement in mood, as well
NOTE Confidence: 0.97863454
00:17:04.119 --> 00:17:05.605 as a decline in desire
NOTE Confidence: 0.97863454
00:17:05.605 --> 00:17:06.725 to die and desire to
NOTE Confidence: 0.97863454

00:17:06.725 --> 00:17:08.005 kill oneself. But again, these
NOTE Confidence: 0.97863454

00:17:08.005 --> 00:17:09.845 are relatively modest effects. So
NOTE Confidence: 0.97863454

00:17:09.845 --> 00:17:11.385 we're not suggesting a therapeutic
NOTE Confidence: 0.97863454

00:17:11.445 --> 00:17:12.744 effect of the measure.
NOTE Confidence: 0.9753158

00:17:14.244 --> 00:17:15.285 One thing I do wanna
NOTE Confidence: 0.9753158

00:17:15.285 --> 00:17:16.244 point out is that we
NOTE Confidence: 0.9753158

00:17:16.244 --> 00:17:17.365 did observe a mood change
NOTE Confidence: 0.9753158

00:17:17.365 --> 00:17:18.690 as a function of gender.
NOTE Confidence: 0.9753158

00:17:18.910 --> 00:17:20.110 And so you see the
NOTE Confidence: 0.9753158

00:17:20.110 --> 00:17:21.790 female respondents here in the
NOTE Confidence: 0.9753158

00:17:21.790 --> 00:17:22.910 red lines actually,
NOTE Confidence: 0.9586888

00:17:23.310 --> 00:17:23.810 demonstrating,
NOTE Confidence: 0.99490356

00:17:24.350 --> 00:17:26.110 a mood decline compared to
NOTE Confidence: 0.99490356

00:17:26.110 --> 00:17:27.730 male respondents in blue.
NOTE Confidence: 0.96264654

00:17:28.350 --> 00:17:29.630 And something to note when
NOTE Confidence: 0.96264654

00:17:29.630 --> 00:17:31.390 interpreting these figures is at

NOTE Confidence: 0.96264654
00:17:31.390 --> 00:17:32.050 the bottom,
NOTE Confidence: 0.9242474
00:17:33.455 --> 00:17:34.895 the zero or the five
NOTE Confidence: 0.9242474
00:17:34.895 --> 00:17:35.715 at the bottom,
NOTE Confidence: 0.9807478
00:17:36.415 --> 00:17:38.015 at, of the y axis
NOTE Confidence: 0.9807478
00:17:38.015 --> 00:17:40.255 indicates neutral mode. So this
NOTE Confidence: 0.9807478
00:17:40.255 --> 00:17:41.615 was a case of female
NOTE Confidence: 0.9807478
00:17:41.615 --> 00:17:43.955 respondents going from more positive
NOTE Confidence: 0.9807478
00:17:44.015 --> 00:17:45.615 mood to less positive mood,
NOTE Confidence: 0.99878174
00:17:46.015 --> 00:17:47.695 not crossing over into negative
NOTE Confidence: 0.99878174
00:17:47.695 --> 00:17:48.060 mood.
NOTE Confidence: 0.9980914
00:17:50.140 --> 00:17:51.740 Continuing this line of research,
NOTE Confidence: 0.9980914
00:17:51.740 --> 00:17:53.180 my lab is continuing to
NOTE Confidence: 0.9980914
00:17:53.180 --> 00:17:55.100 explore new domains to detect
NOTE Confidence: 0.9980914
00:17:55.100 --> 00:17:56.080 suicide risk.
NOTE Confidence: 0.99568635
00:17:56.460 --> 00:17:57.660 So to do so, I
NOTE Confidence: 0.99568635

00:17:57.660 --> 00:17:59.340 actually bring you back, to
NOTE Confidence: 0.99568635

00:17:59.340 --> 00:18:01.100 the traditional form of assessing
NOTE Confidence: 0.99568635

00:18:01.100 --> 00:18:01.600 risk
NOTE Confidence: 0.96276647

00:18:02.054 --> 00:18:03.815 where a clinician prompts for
NOTE Confidence: 0.96276647

00:18:03.815 --> 00:18:05.575 self reported response from the
NOTE Confidence: 0.96276647

00:18:05.575 --> 00:18:06.075 patient.
NOTE Confidence: 0.9321605

00:18:06.615 --> 00:18:08.375 But this time, my brilliant
NOTE Confidence: 0.9321605

00:18:08.375 --> 00:18:10.154 doctoral student, Ilana Gratch,
NOTE Confidence: 0.9464283

00:18:10.534 --> 00:18:11.654 through an f thirty one
NOTE Confidence: 0.9464283

00:18:11.654 --> 00:18:13.754 supported collaboration with Jeff Cohen,
NOTE Confidence: 0.9576506

00:18:14.149 --> 00:18:15.990 has examined not what people
NOTE Confidence: 0.9576506

00:18:15.990 --> 00:18:17.990 say, but instead their behavior
NOTE Confidence: 0.9576506

00:18:17.990 --> 00:18:18.970 when they respond,
NOTE Confidence: 0.9995091

00:18:19.429 --> 00:18:19.929 specifically
NOTE Confidence: 0.96779364

00:18:20.549 --> 00:18:21.990 through their facial actions, which
NOTE Confidence: 0.96779364

00:18:21.990 --> 00:18:22.649 are microexpressions

NOTE Confidence: 0.9991706
00:18:23.029 --> 00:18:24.090 on people's faces.
NOTE Confidence: 0.9893427
00:18:24.710 --> 00:18:25.830 And with the sample of
NOTE Confidence: 0.9893427
00:18:25.830 --> 00:18:27.875 young adults, we recently found
NOTE Confidence: 0.9893427
00:18:27.875 --> 00:18:29.715 that certain facial expressions of
NOTE Confidence: 0.9893427
00:18:29.715 --> 00:18:30.215 interviewees,
NOTE Confidence: 0.95453143
00:18:33.075 --> 00:18:34.835 in combined with the facial
NOTE Confidence: 0.95453143
00:18:34.835 --> 00:18:36.215 expressions of their interviewers,
NOTE Confidence: 0.96744263
00:18:37.075 --> 00:18:38.294 accurately classified,
NOTE Confidence: 0.948816
00:18:38.914 --> 00:18:40.215 suicidal from nonsuicidal
NOTE Confidence: 0.9928611
00:18:41.090 --> 00:18:42.390 young adult respondents.
NOTE Confidence: 0.99408346
00:18:43.330 --> 00:18:44.230 And in fact,
NOTE Confidence: 0.9984323
00:18:44.850 --> 00:18:46.290 what was really surprising to
NOTE Confidence: 0.9984323
00:18:46.290 --> 00:18:47.810 us was actually the facial
NOTE Confidence: 0.9984323
00:18:47.810 --> 00:18:49.030 actions of the interviewers.
NOTE Confidence: 0.97394353
00:18:49.570 --> 00:18:51.750 So our research staff actually,
NOTE Confidence: 0.8935894

00:18:52.050 --> 00:18:53.270 that seemed to predict,
NOTE Confidence: 0.9992471

00:18:54.210 --> 00:18:54.710 those
NOTE Confidence: 0.980767

00:18:56.234 --> 00:18:58.315 suicidal young adults who who
NOTE Confidence: 0.980767

00:18:58.315 --> 00:18:59.755 went on to actually engage
NOTE Confidence: 0.980767

00:18:59.755 --> 00:19:01.755 in suicidal behaviors three months
NOTE Confidence: 0.980767

00:19:01.755 --> 00:19:02.255 later.
NOTE Confidence: 0.9969315

00:19:02.555 --> 00:19:04.175 These were preparatory actions,
NOTE Confidence: 0.9937158

00:19:04.795 --> 00:19:06.795 aborted or interrupted suicide attempts
NOTE Confidence: 0.9937158

00:19:06.795 --> 00:19:07.855 or suicide attempts.
NOTE Confidence: 0.9922156

00:19:10.070 --> 00:19:11.350 And so in terms of
NOTE Confidence: 0.9922156

00:19:11.350 --> 00:19:12.170 next steps,
NOTE Confidence: 0.99641657

00:19:12.790 --> 00:19:14.390 here at Yale, we're really
NOTE Confidence: 0.99641657

00:19:14.390 --> 00:19:15.510 excited to move in the
NOTE Confidence: 0.99641657

00:19:15.510 --> 00:19:17.750 direction of bringing together these
NOTE Confidence: 0.99641657

00:19:17.750 --> 00:19:20.010 different data streams in accurate,
NOTE Confidence: 0.9551544

00:19:20.390 --> 00:19:22.330 interpretable, and user friendly ways,

NOTE Confidence: 0.985987
00:19:22.785 --> 00:19:23.744 to really bring it back
NOTE Confidence: 0.985987
00:19:23.744 --> 00:19:25.125 to the health care provider,
NOTE Confidence: 0.999118
00:19:26.305 --> 00:19:28.005 to social workers, nurses,
NOTE Confidence: 0.8938506
00:19:28.465 --> 00:19:29.525 physicians, psychologists,
NOTE Confidence: 0.957769
00:19:29.905 --> 00:19:30.865 who are working with at
NOTE Confidence: 0.957769
00:19:30.865 --> 00:19:32.165 risk youth and engaging
NOTE Confidence: 0.99753016
00:19:32.545 --> 00:19:34.005 in these high stakes clinical
NOTE Confidence: 0.99753016
00:19:34.065 --> 00:19:34.565 decisions.
NOTE Confidence: 0.9662177
00:19:35.340 --> 00:19:37.340 And doing this obviously requires
NOTE Confidence: 0.9662177
00:19:37.340 --> 00:19:39.020 a team science approach, which
NOTE Confidence: 0.9662177
00:19:39.020 --> 00:19:40.460 is why I'm especially grateful
NOTE Confidence: 0.9662177
00:19:40.460 --> 00:19:41.200 to be here,
NOTE Confidence: 0.9852012
00:19:41.580 --> 00:19:42.619 at Yale and,
NOTE Confidence: 0.9665563
00:19:43.580 --> 00:19:44.619 through the the Center for
NOTE Confidence: 0.9665563
00:19:44.619 --> 00:19:46.000 Brain and Mind Health facilitating
NOTE Confidence: 0.9665563

00:19:46.059 --> 00:19:47.039 these cross disciplinary,
NOTE Confidence: 0.9976449

00:19:47.580 --> 00:19:48.080 collaborations.
NOTE Confidence: 0.9913355

00:19:50.385 --> 00:19:52.005 Continuing this line of research,
NOTE Confidence: 0.99700296

00:19:52.305 --> 00:19:53.845 my lab is exploring,
NOTE Confidence: 0.9996605

00:19:54.305 --> 00:19:54.805 additional
NOTE Confidence: 0.8622031

00:19:56.385 --> 00:19:58.325 questions around detecting risk,
NOTE Confidence: 0.95711416

00:19:58.865 --> 00:19:59.825 by actually going,
NOTE Confidence: 0.8936529

00:20:00.465 --> 00:20:00.965 to,
NOTE Confidence: 0.9977438

00:20:01.825 --> 00:20:03.445 earlier developmental periods.
NOTE Confidence: 0.9869083

00:20:04.480 --> 00:20:06.559 And, I mentioned earlier that
NOTE Confidence: 0.9869083

00:20:06.559 --> 00:20:08.480 there does remain tremendous value
NOTE Confidence: 0.9869083

00:20:08.480 --> 00:20:10.179 still to patient self report.
NOTE Confidence: 0.9687616

00:20:10.880 --> 00:20:12.480 And this important line of
NOTE Confidence: 0.9687616

00:20:12.480 --> 00:20:13.919 work, is being led by
NOTE Confidence: 0.9687616

00:20:13.919 --> 00:20:15.840 my doctoral student, Nathan Lowry,
NOTE Confidence: 0.9687616

00:20:15.840 --> 00:20:16.880 who has an interest in

NOTE Confidence: 0.9687616
00:20:16.880 --> 00:20:18.924 seeing how common universal screening
NOTE Confidence: 0.9687616
00:20:18.924 --> 00:20:20.764 measures such as the ASK,
NOTE Confidence: 0.9425886
00:20:21.085 --> 00:20:22.384 ASQ or CSSRS
NOTE Confidence: 0.85960627
00:20:23.085 --> 00:20:23.984 may be adapted,
NOTE Confidence: 0.9958599
00:20:24.445 --> 00:20:25.825 when suicide screening,
NOTE Confidence: 0.9979725
00:20:26.205 --> 00:20:28.065 occurs in children or preteens
NOTE Confidence: 0.9789107
00:20:28.524 --> 00:20:29.965 ranging in age from eight
NOTE Confidence: 0.9789107
00:20:29.965 --> 00:20:31.264 to eleven years old.
NOTE Confidence: 0.98039204
00:20:31.830 --> 00:20:33.029 And what has been I
NOTE Confidence: 0.98039204
00:20:33.029 --> 00:20:34.150 know this sounds like a
NOTE Confidence: 0.98039204
00:20:34.150 --> 00:20:35.510 very young age group, but
NOTE Confidence: 0.98039204
00:20:35.510 --> 00:20:37.029 what's been motivating our lab's
NOTE Confidence: 0.98039204
00:20:37.029 --> 00:20:38.470 attention toward this age group
NOTE Confidence: 0.98039204
00:20:38.470 --> 00:20:39.669 has been the alarming rise
NOTE Confidence: 0.98039204
00:20:39.669 --> 00:20:41.609 of suicide death rates detected
NOTE Confidence: 0.98039204

00:20:41.909 --> 00:20:42.890 over the past,
NOTE Confidence: 0.9365587

00:20:43.429 --> 00:20:44.970 I want to say decade,
NOTE Confidence: 0.81253266

00:20:45.350 --> 00:20:46.695 probably more than that,
NOTE Confidence: 0.9927029

00:20:47.174 --> 00:20:48.534 among eight to eleven year
NOTE Confidence: 0.9927029

00:20:48.534 --> 00:20:49.595 olds in this country.
NOTE Confidence: 0.96554756

00:20:50.455 --> 00:20:51.174 And so,
NOTE Confidence: 0.91490704

00:20:52.134 --> 00:20:53.674 Nathan is leading a
NOTE Confidence: 0.6830975

00:20:54.134 --> 00:20:54.634 investigation,
NOTE Confidence: 0.9861357

00:20:55.174 --> 00:20:57.654 really examining these foundational questions
NOTE Confidence: 0.9861357

00:20:57.654 --> 00:20:59.095 that can help shape a
NOTE Confidence: 0.9861357

00:20:59.095 --> 00:21:01.255 more developmentally sensitive approach to
NOTE Confidence: 0.9861357

00:21:01.255 --> 00:21:03.950 asking children about suicide, adapting
NOTE Confidence: 0.9861357

00:21:03.950 --> 00:21:05.730 vignettes from developmental psychology
NOTE Confidence: 0.9853692

00:21:06.190 --> 00:21:07.970 designed to gauge children's understanding
NOTE Confidence: 0.99113804

00:21:08.430 --> 00:21:10.450 of continued biological or psychological
NOTE Confidence: 0.99113804

00:21:10.670 --> 00:21:12.670 functioning after death, with some

NOTE Confidence: 0.99113804
00:21:12.670 --> 00:21:14.450 sample statements for youth evaluated
NOTE Confidence: 0.99113804
00:21:14.590 --> 00:21:15.090 here.
NOTE Confidence: 0.97902435
00:21:17.515 --> 00:21:18.734 So beyond developing,
NOTE Confidence: 0.99205154
00:21:19.595 --> 00:21:21.195 methods to identify patients at
NOTE Confidence: 0.99205154
00:21:21.195 --> 00:21:23.195 elevated risk, another line of
NOTE Confidence: 0.99205154
00:21:23.195 --> 00:21:25.375 our research explores possible explanations
NOTE Confidence: 0.99827206
00:21:25.675 --> 00:21:27.515 for why exactly young people
NOTE Confidence: 0.99827206
00:21:27.515 --> 00:21:28.655 may consider suicide.
NOTE Confidence: 0.99956274
00:21:30.480 --> 00:21:31.440 One of the first things
NOTE Confidence: 0.99956274
00:21:31.440 --> 00:21:32.660 that may come to mind,
NOTE Confidence: 0.9834368
00:21:33.040 --> 00:21:34.400 at least for me, is
NOTE Confidence: 0.9834368
00:21:34.400 --> 00:21:35.940 a strong desire for death
NOTE Confidence: 0.9834368
00:21:36.160 --> 00:21:38.740 and association associated death oriented
NOTE Confidence: 0.9834368
00:21:38.800 --> 00:21:39.300 cognitions.
NOTE Confidence: 0.88676405
00:21:41.440 --> 00:21:42.640 And so my former trainee,
NOTE Confidence: 0.88676405

00:21:42.640 --> 00:21:43.540 Catherine Tizanos,
NOTE Confidence: 0.89478713
00:21:43.915 --> 00:21:45.115 who's now on faculty at
NOTE Confidence: 0.89478713
00:21:45.115 --> 00:21:45.615 Brown,
NOTE Confidence: 0.9926953
00:21:45.915 --> 00:21:47.755 examined a foundational question on
NOTE Confidence: 0.9926953
00:21:47.755 --> 00:21:49.835 how adolescents view and orient
NOTE Confidence: 0.9926953
00:21:49.835 --> 00:21:51.375 themselves toward death.
NOTE Confidence: 0.9769985
00:21:52.075 --> 00:21:53.675 Do they engage in death
NOTE Confidence: 0.9769985
00:21:53.675 --> 00:21:55.195 avoidance where they avoid the
NOTE Confidence: 0.9769985
00:21:55.195 --> 00:21:56.555 thoughts of death at all
NOTE Confidence: 0.9769985
00:21:56.555 --> 00:21:57.055 costs
NOTE Confidence: 0.9274127
00:21:58.040 --> 00:22:00.040 or neutral acceptance in viewing
NOTE Confidence: 0.9274127
00:22:00.040 --> 00:22:01.480 death as simply a part
NOTE Confidence: 0.9274127
00:22:01.480 --> 00:22:02.940 or process of life?
NOTE Confidence: 0.9855663
00:22:03.640 --> 00:22:05.000 Or finally, do they view
NOTE Confidence: 0.9855663
00:22:05.000 --> 00:22:06.520 death as an appropriate escape
NOTE Confidence: 0.9855663
00:22:06.520 --> 00:22:08.460 from pain and suffering, otherwise

NOTE Confidence: 0.9855663
00:22:08.520 --> 00:22:09.900 known as escape acceptance?
NOTE Confidence: 0.9725323
00:22:11.825 --> 00:22:13.185 And first, in the sample
NOTE Confidence: 0.9725323
00:22:13.185 --> 00:22:14.865 of seventy four community based
NOTE Confidence: 0.9725323
00:22:14.865 --> 00:22:16.945 adolescents, we found that, not
NOTE Confidence: 0.9725323
00:22:16.945 --> 00:22:18.225 surprisingly, those with a history
NOTE Confidence: 0.9725323
00:22:18.225 --> 00:22:19.984 of suicidal ideation tended to
NOTE Confidence: 0.9725323
00:22:19.984 --> 00:22:21.365 avoid the thoughts of death,
NOTE Confidence: 0.93300474
00:22:21.744 --> 00:22:22.965 significantly less,
NOTE Confidence: 0.9393102
00:22:24.820 --> 00:22:26.759 compared to, those without,
NOTE Confidence: 0.99691594
00:22:27.299 --> 00:22:28.039 such history.
NOTE Confidence: 0.9900179
00:22:29.940 --> 00:22:31.399 And then there was really
NOTE Confidence: 0.9900179
00:22:31.619 --> 00:22:33.220 not a difference in how
NOTE Confidence: 0.9900179
00:22:33.220 --> 00:22:34.039 they viewed,
NOTE Confidence: 0.99194163
00:22:34.419 --> 00:22:35.619 death as a natural part
NOTE Confidence: 0.99194163
00:22:35.619 --> 00:22:36.279 of life.
NOTE Confidence: 0.9817334

00:22:36.734 --> 00:22:38.095 And then the most robust
NOTE Confidence: 0.9817334

00:22:38.095 --> 00:22:39.615 pattern really emerged in the
NOTE Confidence: 0.9817334

00:22:39.615 --> 00:22:41.075 case of escape acceptance,
NOTE Confidence: 0.91639805

00:22:41.695 --> 00:22:43.775 such that suicidal adolescents view
NOTE Confidence: 0.91639805

00:22:43.775 --> 00:22:45.375 death as an acceptable form
NOTE Confidence: 0.91639805

00:22:45.375 --> 00:22:46.415 of escape from pain and
NOTE Confidence: 0.91639805

00:22:46.415 --> 00:22:46.915 suffering,
NOTE Confidence: 0.9958416

00:22:47.535 --> 00:22:49.375 and stronger levels of escape
NOTE Confidence: 0.9958416

00:22:49.375 --> 00:22:51.840 acceptance at baseline predicted greater
NOTE Confidence: 0.9958416

00:22:51.900 --> 00:22:53.980 likelihood of suicidal ideation six
NOTE Confidence: 0.9958416

00:22:53.980 --> 00:22:54.720 months later.
NOTE Confidence: 0.9961384

00:22:56.140 --> 00:22:57.919 Now given that these data
NOTE Confidence: 0.9961384

00:22:57.980 --> 00:22:59.580 were initially collected in a
NOTE Confidence: 0.9961384

00:22:59.580 --> 00:23:00.460 community based,
NOTE Confidence: 0.8790356

00:23:01.340 --> 00:23:01.840 setting,
NOTE Confidence: 0.9932413

00:23:02.375 --> 00:23:03.735 outside the hospital, you may

NOTE Confidence: 0.9932413
00:23:03.735 --> 00:23:04.395 be wondering,
NOTE Confidence: 0.9985915
00:23:04.855 --> 00:23:06.775 whether similar patterns would emerge
NOTE Confidence: 0.9985915
00:23:06.775 --> 00:23:08.215 in a more clinically severe
NOTE Confidence: 0.9985915
00:23:08.215 --> 00:23:08.715 sample.
NOTE Confidence: 0.99873143
00:23:09.095 --> 00:23:10.455 So to provide a point
NOTE Confidence: 0.99873143
00:23:10.455 --> 00:23:11.195 of comparison,
NOTE Confidence: 0.9862095
00:23:13.015 --> 00:23:14.135 when we brought the same
NOTE Confidence: 0.9862095
00:23:14.135 --> 00:23:16.155 measure, into the Bellevue emergency
NOTE Confidence: 0.9862095
00:23:16.215 --> 00:23:16.680 room,
NOTE Confidence: 0.93676084
00:23:17.880 --> 00:23:19.560 I show here the same
NOTE Confidence: 0.93676084
00:23:19.560 --> 00:23:20.060 ratings,
NOTE Confidence: 0.96091276
00:23:20.760 --> 00:23:21.580 of those,
NOTE Confidence: 0.9886874
00:23:22.280 --> 00:23:24.200 preteens and teens, who had
NOTE Confidence: 0.9886874
00:23:24.200 --> 00:23:26.200 recently experienced a suicide related
NOTE Confidence: 0.9886874
00:23:26.200 --> 00:23:27.480 crisis and were coming to
NOTE Confidence: 0.9886874

00:23:27.480 --> 00:23:28.619 the Bellevue ED.
NOTE Confidence: 0.95476335

00:23:29.494 --> 00:23:30.534 And you can see stark
NOTE Confidence: 0.95476335

00:23:30.534 --> 00:23:31.975 differences, especially when it comes
NOTE Confidence: 0.95476335

00:23:31.975 --> 00:23:33.115 to escape acceptance.
NOTE Confidence: 0.9853396

00:23:33.815 --> 00:23:35.255 And this tracks with recent
NOTE Confidence: 0.9853396

00:23:35.255 --> 00:23:37.355 findings in adults reporting motivations
NOTE Confidence: 0.9853396

00:23:37.494 --> 00:23:39.255 to attempt suicide to escape
NOTE Confidence: 0.9853396

00:23:39.255 --> 00:23:40.075 from psychologically
NOTE Confidence: 0.9893251

00:23:40.455 --> 00:23:42.394 aversive conditions after concluding
NOTE Confidence: 0.997218

00:23:42.774 --> 00:23:44.260 that no other effective solution
NOTE Confidence: 0.997218

00:23:44.260 --> 00:23:46.359 or strategy was available.
NOTE Confidence: 0.96096104

00:23:49.780 --> 00:23:51.080 Now pausing here,
NOTE Confidence: 0.9929543

00:23:52.260 --> 00:23:53.700 I've spent a good portion
NOTE Confidence: 0.9929543

00:23:53.700 --> 00:23:55.000 of time focusing,
NOTE Confidence: 0.9574166

00:23:55.540 --> 00:23:56.895 and referring to death,
NOTE Confidence: 0.9986564

00:23:57.615 --> 00:23:59.615 fixating on what motivates people

NOTE Confidence: 0.9986564
00:23:59.615 --> 00:24:01.375 toward an openness or desire
NOTE Confidence: 0.9986564
00:24:01.375 --> 00:24:02.195 to kill themselves.
NOTE Confidence: 0.9562684
00:24:04.015 --> 00:24:05.935 But this isn't the full
NOTE Confidence: 0.9562684
00:24:05.935 --> 00:24:08.595 picture, since suicidal individuals experience
NOTE Confidence: 0.9562684
00:24:08.734 --> 00:24:10.494 is not solely defined by
NOTE Confidence: 0.9562684
00:24:10.494 --> 00:24:11.955 a desire to kill themselves.
NOTE Confidence: 0.9598026
00:24:12.559 --> 00:24:14.340 They may not necessarily reject
NOTE Confidence: 0.9598026
00:24:14.400 --> 00:24:15.600 this notion of life in
NOTE Confidence: 0.9598026
00:24:15.600 --> 00:24:16.960 an alternative path,
NOTE Confidence: 0.99924517
00:24:17.760 --> 00:24:18.960 other than one that leads
NOTE Confidence: 0.99924517
00:24:18.960 --> 00:24:19.619 to suicide.
NOTE Confidence: 0.94876295
00:24:20.559 --> 00:24:22.000 And one way I I
NOTE Confidence: 0.94876295
00:24:22.000 --> 00:24:23.119 like to think about this
NOTE Confidence: 0.94876295
00:24:23.119 --> 00:24:23.619 is,
NOTE Confidence: 0.9925555
00:24:24.715 --> 00:24:25.755 while it's not the case
NOTE Confidence: 0.9925555

00:24:25.755 --> 00:24:27.615 for all, suicidal adolescents,
NOTE Confidence: 0.9857273

00:24:28.315 --> 00:24:29.355 a fifteen year old who
NOTE Confidence: 0.9857273

00:24:29.355 --> 00:24:30.795 might be struggling with suicidal
NOTE Confidence: 0.9857273

00:24:30.795 --> 00:24:32.235 thoughts may be getting out
NOTE Confidence: 0.9857273

00:24:32.235 --> 00:24:33.275 of bed, and the first
NOTE Confidence: 0.9857273

00:24:33.275 --> 00:24:34.155 thought they have is that
NOTE Confidence: 0.9857273

00:24:34.155 --> 00:24:35.675 they wanna kill themselves. But
NOTE Confidence: 0.9857273

00:24:35.675 --> 00:24:37.035 it might also be mixed
NOTE Confidence: 0.9857273

00:24:37.035 --> 00:24:38.220 in with thoughts of what
NOTE Confidence: 0.9857273

00:24:38.460 --> 00:24:39.820 type of socks they're gonna
NOTE Confidence: 0.9857273

00:24:39.820 --> 00:24:40.940 put on their feet and
NOTE Confidence: 0.9857273

00:24:40.940 --> 00:24:41.820 what they're gonna have for
NOTE Confidence: 0.9857273

00:24:41.820 --> 00:24:43.100 breakfast and whether they're going
NOTE Confidence: 0.9857273

00:24:43.100 --> 00:24:44.380 to make the school bus
NOTE Confidence: 0.9857273

00:24:44.380 --> 00:24:45.039 on time.
NOTE Confidence: 0.99910367

00:24:45.419 --> 00:24:46.700 And those don't refer to

NOTE Confidence: 0.99910367

00:24:46.700 --> 00:24:47.900 death and don't refer to

NOTE Confidence: 0.99910367

00:24:47.900 --> 00:24:49.659 a desire to die. They're

NOTE Confidence: 0.99910367

00:24:49.659 --> 00:24:50.720 referring to those

NOTE Confidence: 0.9787365

00:24:51.335 --> 00:24:53.095 mundane but important next steps

NOTE Confidence: 0.9787365

00:24:53.095 --> 00:24:54.475 that keep them going forward.

NOTE Confidence: 0.981414

00:24:56.455 --> 00:24:58.135 And this general notion of

NOTE Confidence: 0.981414

00:24:58.135 --> 00:25:00.135 an internal debate between death

NOTE Confidence: 0.981414

00:25:00.135 --> 00:25:01.655 and life has been considered

NOTE Confidence: 0.981414

00:25:01.655 --> 00:25:02.315 for decades,

NOTE Confidence: 0.95059377

00:25:02.935 --> 00:25:03.835 with, for instance,

NOTE Confidence: 0.84945637

00:25:04.890 --> 00:25:05.390 intermedial

NOTE Confidence: 0.9195829

00:25:07.369 --> 00:25:09.130 states characterized by, as he

NOTE Confidence: 0.9195829

00:25:09.130 --> 00:25:10.750 says, a vitality of consciousness

NOTE Confidence: 0.9195829

00:25:10.890 --> 00:25:12.650 ranging between cessation and ardent

NOTE Confidence: 0.9195829

00:25:12.650 --> 00:25:13.150 living.

NOTE Confidence: 0.99082935

00:25:13.530 --> 00:25:15.630 And Kovacs and Beck, emphasizing
NOTE Confidence: 0.99082935

00:25:15.770 --> 00:25:18.010 an internal subjective struggle between
NOTE Confidence: 0.99082935

00:25:18.010 --> 00:25:18.890 a wish to die and
NOTE Confidence: 0.99082935

00:25:18.890 --> 00:25:20.355 a wish to live, which
NOTE Confidence: 0.99082935

00:25:20.355 --> 00:25:21.955 serves as this powerful reminder
NOTE Confidence: 0.99082935

00:25:21.955 --> 00:25:23.395 to not discount the wish
NOTE Confidence: 0.99082935

00:25:23.395 --> 00:25:25.175 to live when studying suicidal
NOTE Confidence: 0.99082935

00:25:25.315 --> 00:25:25.815 individuals.
NOTE Confidence: 0.98451257

00:25:27.635 --> 00:25:28.675 And so tied to this,
NOTE Confidence: 0.98451257

00:25:28.675 --> 00:25:30.195 my lab in collaboration with
NOTE Confidence: 0.98451257

00:25:30.195 --> 00:25:31.015 Dan Schachter,
NOTE Confidence: 0.9675662

00:25:31.395 --> 00:25:32.660 cognitive psychologist,
NOTE Confidence: 0.7964287

00:25:33.359 --> 00:25:34.340 and Don Rabenau,
NOTE Confidence: 0.9979936

00:25:34.800 --> 00:25:36.640 we've used these cognitive measures
NOTE Confidence: 0.9979936

00:25:36.640 --> 00:25:38.080 developed and tested in Dan's
NOTE Confidence: 0.9979936

00:25:38.080 --> 00:25:40.020 lab to capture how suicidal

NOTE Confidence: 0.9979936
00:25:40.160 --> 00:25:40.660 individuals
NOTE Confidence: 0.9949376
00:25:41.119 --> 00:25:42.560 view the continuation of their
NOTE Confidence: 0.9949376
00:25:42.560 --> 00:25:43.060 lives.
NOTE Confidence: 0.97193444
00:25:43.520 --> 00:25:45.119 Meaning, when people are asked
NOTE Confidence: 0.97193444
00:25:45.119 --> 00:25:46.240 to imagine what they may
NOTE Confidence: 0.97193444
00:25:46.240 --> 00:25:47.695 do in life, let's say
NOTE Confidence: 0.97193444
00:25:47.695 --> 00:25:49.055 within the next hour or
NOTE Confidence: 0.97193444
00:25:49.055 --> 00:25:50.655 the next day or week
NOTE Confidence: 0.97193444
00:25:50.655 --> 00:25:51.395 or year,
NOTE Confidence: 0.9972613
00:25:52.015 --> 00:25:53.234 what comes to mind?
NOTE Confidence: 0.98304135
00:25:54.175 --> 00:25:55.535 Can they generate a clear
NOTE Confidence: 0.98304135
00:25:55.535 --> 00:25:57.295 and mentally tangible image of
NOTE Confidence: 0.98304135
00:25:57.295 --> 00:25:58.675 the future in their minds,
NOTE Confidence: 0.9994095
00:25:59.215 --> 00:26:00.015 or do they have a
NOTE Confidence: 0.9994095
00:26:00.015 --> 00:26:01.855 more difficult time generating any
NOTE Confidence: 0.9994095

00:26:01.855 --> 00:26:02.975 notion of the future at
NOTE Confidence: 0.9994095

00:26:02.975 --> 00:26:03.270 all?
NOTE Confidence: 0.94888306

00:26:04.630 --> 00:26:06.090 And there's been past references
NOTE Confidence: 0.94888306

00:26:06.310 --> 00:26:06.869 to this,
NOTE Confidence: 0.9606006

00:26:07.270 --> 00:26:07.770 idea,
NOTE Confidence: 0.98134834

00:26:08.150 --> 00:26:09.450 in the field as well.
NOTE Confidence: 0.9843782

00:26:10.070 --> 00:26:11.190 Some work in the early
NOTE Confidence: 0.9843782

00:26:11.190 --> 00:26:13.210 seventies with studies observing suicidal
NOTE Confidence: 0.9843782

00:26:13.270 --> 00:26:14.730 patients using future,
NOTE Confidence: 0.9487813

00:26:15.109 --> 00:26:16.650 tense verbs less frequently,
NOTE Confidence: 0.9889489

00:26:17.325 --> 00:26:18.924 and having limited future time
NOTE Confidence: 0.9889489

00:26:18.924 --> 00:26:19.424 perspective.
NOTE Confidence: 0.9885798

00:26:20.205 --> 00:26:21.085 And then a bit in
NOTE Confidence: 0.9885798

00:26:21.085 --> 00:26:23.105 the nineties with, Roy Baumeister
NOTE Confidence: 0.9885798

00:26:23.244 --> 00:26:24.544 and his escape theory,
NOTE Confidence: 0.9988974

00:26:25.005 --> 00:26:26.784 proposing limited time perspective

NOTE Confidence: 0.9865481
00:26:27.164 --> 00:26:28.445 and the absence of distal
NOTE Confidence: 0.9865481
00:26:28.445 --> 00:26:30.065 goals among suicidal individuals.
NOTE Confidence: 0.96140516
00:26:30.609 --> 00:26:32.130 And then an acknowledgment by
NOTE Confidence: 0.96140516
00:26:32.130 --> 00:26:33.429 prominent clinical psychologist,
NOTE Confidence: 0.8815433
00:26:33.889 --> 00:26:34.630 Mark Williams,
NOTE Confidence: 0.97408795
00:26:35.090 --> 00:26:35.590 emphasizing,
NOTE Confidence: 0.94712365
00:26:36.450 --> 00:26:37.970 the potential promise of studying
NOTE Confidence: 0.94712365
00:26:37.970 --> 00:26:39.269 future thinking,
NOTE Confidence: 0.9961081
00:26:39.649 --> 00:26:41.169 saying that the clinical context
NOTE Confidence: 0.9961081
00:26:41.169 --> 00:26:42.529 in which perspective on the
NOTE Confidence: 0.9961081
00:26:42.529 --> 00:26:43.809 future is the most central
NOTE Confidence: 0.9961081
00:26:43.809 --> 00:26:45.669 element is suicidal depression.
NOTE Confidence: 0.97115654
00:26:47.385 --> 00:26:48.585 Now in terms of how,
NOTE Confidence: 0.97115654
00:26:48.905 --> 00:26:50.445 future thinking is captured,
NOTE Confidence: 0.98677
00:26:51.225 --> 00:26:52.265 I'll go into this in
NOTE Confidence: 0.98677

00:26:52.265 --> 00:26:53.625 a moment and wanna walk
NOTE Confidence: 0.98677

00:26:53.625 --> 00:26:54.905 you through a study that
NOTE Confidence: 0.98677

00:26:54.905 --> 00:26:56.985 we recently completed and published
NOTE Confidence: 0.98677

00:26:56.985 --> 00:26:58.925 on community based, adolescents,
NOTE Confidence: 0.96944845

00:27:00.210 --> 00:27:01.490 a portion of of whom
NOTE Confidence: 0.96944845

00:27:01.490 --> 00:27:03.350 had history of suicidal thoughts.
NOTE Confidence: 0.9833311

00:27:03.890 --> 00:27:05.570 And so we examined episodic
NOTE Confidence: 0.9833311

00:27:05.570 --> 00:27:06.390 future thinking,
NOTE Confidence: 0.9637185

00:27:06.770 --> 00:27:07.810 in the lab through a
NOTE Confidence: 0.9637185

00:27:07.810 --> 00:27:09.250 behavioral paradigm. I'll show you
NOTE Confidence: 0.9637185

00:27:09.250 --> 00:27:10.070 in a moment,
NOTE Confidence: 0.9737197

00:27:10.850 --> 00:27:12.195 along with the control task
NOTE Confidence: 0.9737197

00:27:12.355 --> 00:27:13.014 to capture,
NOTE Confidence: 0.9962537

00:27:13.554 --> 00:27:15.075 narrative style, which I'm happy
NOTE Confidence: 0.9962537

00:27:15.075 --> 00:27:16.355 to elaborate on if folks
NOTE Confidence: 0.9962537

00:27:16.355 --> 00:27:17.014 are curious.

NOTE Confidence: 0.97673225
00:27:18.115 --> 00:27:19.475 And so after they came
NOTE Confidence: 0.97673225
00:27:19.475 --> 00:27:20.755 into the they were screened,
NOTE Confidence: 0.97673225
00:27:20.755 --> 00:27:21.715 they came into the lab,
NOTE Confidence: 0.97673225
00:27:21.715 --> 00:27:22.774 completed the task.
NOTE Confidence: 0.9887334
00:27:23.315 --> 00:27:24.434 We let them go and,
NOTE Confidence: 0.9887334
00:27:24.674 --> 00:27:26.455 had them complete online surveys,
NOTE Confidence: 0.9997751
00:27:26.994 --> 00:27:27.494 indicating
NOTE Confidence: 0.9976654
00:27:27.970 --> 00:27:29.890 their degree of suicidal thoughts,
NOTE Confidence: 0.9976654
00:27:30.210 --> 00:27:31.590 three and six months later.
NOTE Confidence: 0.9927523
00:27:33.250 --> 00:27:35.010 Now focusing on this measure
NOTE Confidence: 0.9927523
00:27:35.010 --> 00:27:35.990 of future thinking.
NOTE Confidence: 0.94714975
00:27:37.570 --> 00:27:40.070 So the ERT experimental recombination
NOTE Confidence: 0.98793083
00:27:40.370 --> 00:27:42.105 task from Dan Schachter's lab
NOTE Confidence: 0.98793083
00:27:42.345 --> 00:27:44.025 is a behavioral paradigm that
NOTE Confidence: 0.98793083
00:27:44.025 --> 00:27:45.544 essentially prompts a person to
NOTE Confidence: 0.98793083

00:27:45.544 --> 00:27:47.165 focus on a single event
NOTE Confidence: 0.98793083

00:27:47.385 --> 00:27:49.165 localized in time and space
NOTE Confidence: 0.98793083

00:27:49.385 --> 00:27:50.924 and elaborate on that event
NOTE Confidence: 0.94921535

00:27:51.225 --> 00:27:52.665 with the prompt being something
NOTE Confidence: 0.94921535

00:27:52.665 --> 00:27:53.785 like, for the next three
NOTE Confidence: 0.94921535

00:27:53.785 --> 00:27:55.800 minutes, imagine blank. You're given
NOTE Confidence: 0.94921535

00:27:55.800 --> 00:27:57.480 some cues and describe it
NOTE Confidence: 0.94921535

00:27:57.480 --> 00:27:58.680 in as much detail as
NOTE Confidence: 0.94921535

00:27:58.680 --> 00:27:59.640 you can, what you'll be
NOTE Confidence: 0.94921535

00:27:59.640 --> 00:28:00.619 doing, thinking,
NOTE Confidence: 0.9897372

00:28:01.000 --> 00:28:03.240 hearing, seeing, feeling, etcetera. Really
NOTE Confidence: 0.9897372

00:28:03.240 --> 00:28:04.780 trying to bring that image,
NOTE Confidence: 0.9943503

00:28:05.320 --> 00:28:07.080 internal image of the future
NOTE Confidence: 0.9943503

00:28:07.080 --> 00:28:07.740 to life.
NOTE Confidence: 0.9816865

00:28:09.225 --> 00:28:10.525 And so in this example,
NOTE Confidence: 0.9816865

00:28:10.665 --> 00:28:11.705 maybe a team would be

NOTE Confidence: 0.9816865
00:28:11.705 --> 00:28:13.725 presented with the cues, personalized
NOTE Confidence: 0.9816865
00:28:13.785 --> 00:28:15.385 cues. So imagine a positive
NOTE Confidence: 0.9816865
00:28:15.385 --> 00:28:16.905 event in the next five
NOTE Confidence: 0.9816865
00:28:16.905 --> 00:28:17.965 years involving
NOTE Confidence: 0.86914027
00:28:18.345 --> 00:28:20.445 your cousin, the Strand Bookstore,
NOTE Confidence: 0.9478858
00:28:20.905 --> 00:28:21.945 as well as a phone,
NOTE Confidence: 0.9478858
00:28:21.945 --> 00:28:23.465 an object. So person, place,
NOTE Confidence: 0.9478858
00:28:23.465 --> 00:28:24.365 object, cue.
NOTE Confidence: 0.93266296
00:28:25.619 --> 00:28:26.580 And these would have been,
NOTE Confidence: 0.93266296
00:28:26.820 --> 00:28:27.800 kind of pre,
NOTE Confidence: 0.909623
00:28:28.500 --> 00:28:29.240 pre collected.
NOTE Confidence: 0.9664864
00:28:30.100 --> 00:28:31.060 And so to measure the
NOTE Confidence: 0.9664864
00:28:31.060 --> 00:28:32.340 level of detail, we audio
NOTE Confidence: 0.9664864
00:28:32.340 --> 00:28:34.500 recorded and parsed participants event
NOTE Confidence: 0.9664864
00:28:34.500 --> 00:28:36.440 descriptions into individual components
NOTE Confidence: 0.97346234

00:28:36.945 --> 00:28:38.965 with blinded coders then categorizing
NOTE Confidence: 0.97346234

00:28:39.184 --> 00:28:41.024 these components into either internal
NOTE Confidence: 0.97346234

00:28:41.024 --> 00:28:42.404 or external details.
NOTE Confidence: 0.9851128

00:28:42.784 --> 00:28:44.544 Fortunately, we have natural language
NOTE Confidence: 0.9851128

00:28:44.544 --> 00:28:45.765 processing that helps,
NOTE Confidence: 0.9931557

00:28:46.544 --> 00:28:48.304 expedite this process now, but
NOTE Confidence: 0.9931557

00:28:48.304 --> 00:28:49.765 there were many years dedicated
NOTE Confidence: 0.9931557

00:28:49.825 --> 00:28:51.024 to the manual coding of
NOTE Confidence: 0.9931557

00:28:51.024 --> 00:28:51.524 this.
NOTE Confidence: 0.8972571

00:28:52.920 --> 00:28:53.820 Internal details,
NOTE Confidence: 0.9891689

00:28:54.200 --> 00:28:54.940 or IDs
NOTE Confidence: 0.98276645

00:28:55.240 --> 00:28:56.680 are those that are relevant
NOTE Confidence: 0.98276645

00:28:56.680 --> 00:28:57.740 to the central event,
NOTE Confidence: 0.95163566

00:28:58.440 --> 00:28:59.400 such as I will pick
NOTE Confidence: 0.95163566

00:28:59.400 --> 00:29:00.600 up my I will pick
NOTE Confidence: 0.95163566

00:29:00.600 --> 00:29:01.800 up my phone to call

NOTE Confidence: 0.95163566
00:29:01.800 --> 00:29:03.320 my cousin or my cousin
NOTE Confidence: 0.95163566
00:29:03.320 --> 00:29:04.200 and I will plan to
NOTE Confidence: 0.95163566
00:29:04.200 --> 00:29:05.595 meet at the strand tonight.
NOTE Confidence: 0.95163566
00:29:05.674 --> 00:29:07.674 So discrete actions that could
NOTE Confidence: 0.95163566
00:29:07.674 --> 00:29:09.355 plausibly happen in the imagined
NOTE Confidence: 0.95163566
00:29:09.355 --> 00:29:10.174 future event.
NOTE Confidence: 0.96306616
00:29:10.955 --> 00:29:12.875 External details could be semantic
NOTE Confidence: 0.96306616
00:29:12.875 --> 00:29:14.895 like statements that are relevant
NOTE Confidence: 0.96306616
00:29:14.955 --> 00:29:16.315 but not actually fixed in
NOTE Confidence: 0.96306616
00:29:16.315 --> 00:29:17.595 the imagined event, such as
NOTE Confidence: 0.96306616
00:29:17.595 --> 00:29:18.554 the strand is a huge
NOTE Confidence: 0.96306616
00:29:18.554 --> 00:29:20.395 bookstore, or my cousin loves
NOTE Confidence: 0.96306616
00:29:20.395 --> 00:29:21.054 the strand.
NOTE Confidence: 0.9684596
00:29:22.310 --> 00:29:23.750 So we might expect that
NOTE Confidence: 0.9684596
00:29:23.750 --> 00:29:25.830 suicidal adolescents attempt to when
NOTE Confidence: 0.9684596

00:29:25.830 --> 00:29:27.590 they're attempting to describe their
NOTE Confidence: 0.9684596

00:29:27.590 --> 00:29:29.270 future, a more vague over
NOTE Confidence: 0.9684596

00:29:29.270 --> 00:29:30.890 generalized picture may emerge,
NOTE Confidence: 0.99804944

00:29:31.190 --> 00:29:33.350 such that they're, resulting in
NOTE Confidence: 0.99804944

00:29:33.350 --> 00:29:35.290 a lower internal detail count.
NOTE Confidence: 0.9995269

00:29:36.655 --> 00:29:37.555 So focusing
NOTE Confidence: 0.98682004

00:29:37.935 --> 00:29:40.195 on internal details at baseline,
NOTE Confidence: 0.95815146

00:29:41.135 --> 00:29:43.055 our suicidal adolescents shown in
NOTE Confidence: 0.95815146

00:29:43.055 --> 00:29:44.015 dark bars here. So they
NOTE Confidence: 0.95815146

00:29:44.015 --> 00:29:45.395 had experienced ideation,
NOTE Confidence: 0.985658

00:29:45.935 --> 00:29:46.895 at least once in the
NOTE Confidence: 0.985658

00:29:46.895 --> 00:29:48.815 past year, had imagined fewer
NOTE Confidence: 0.985658

00:29:48.815 --> 00:29:50.735 number of actions enacted in
NOTE Confidence: 0.985658

00:29:50.735 --> 00:29:51.315 the future,
NOTE Confidence: 0.937767

00:29:51.809 --> 00:29:53.909 specifically when imagining positive events
NOTE Confidence: 0.937767

00:29:54.049 --> 00:29:55.889 compared to non suicidal adolescents

NOTE Confidence: 0.937767
00:29:55.889 --> 00:29:57.190 shown in light bars.
NOTE Confidence: 0.96558225
00:29:57.809 --> 00:29:59.110 And future thinking abilities,
NOTE Confidence: 0.95887345
00:29:59.970 --> 00:30:01.250 appear to be protective of
NOTE Confidence: 0.95887345
00:30:01.250 --> 00:30:03.250 future risk such that better
NOTE Confidence: 0.95887345
00:30:03.250 --> 00:30:05.409 ability to imagine future actions
NOTE Confidence: 0.95887345
00:30:05.409 --> 00:30:06.630 regardless of valence
NOTE Confidence: 0.998079
00:30:07.125 --> 00:30:09.125 predicted, those adolescents who would
NOTE Confidence: 0.998079
00:30:09.125 --> 00:30:10.505 be less likely to experience
NOTE Confidence: 0.998079
00:30:10.565 --> 00:30:12.585 suicidal ideation six months later.
NOTE Confidence: 0.99889374
00:30:13.685 --> 00:30:14.965 Something worth noting is that
NOTE Confidence: 0.99889374
00:30:14.965 --> 00:30:16.085 when we took the same
NOTE Confidence: 0.99889374
00:30:16.085 --> 00:30:17.625 ERT measure to the emergency
NOTE Confidence: 0.99889374
00:30:17.685 --> 00:30:18.185 room,
NOTE Confidence: 0.9786122
00:30:18.725 --> 00:30:20.345 in a recently published paper,
NOTE Confidence: 0.9786122
00:30:20.640 --> 00:30:22.160 led by my mentee, Olivia
NOTE Confidence: 0.9786122

00:30:22.160 --> 00:30:23.520 Pollock, we recently found a
NOTE Confidence: 0.9786122

00:30:23.520 --> 00:30:25.600 profound dampened ability shown in
NOTE Confidence: 0.9786122

00:30:25.600 --> 00:30:27.120 the blue dotted line in
NOTE Confidence: 0.9786122

00:30:27.120 --> 00:30:28.800 acutely suicidal youth in their
NOTE Confidence: 0.9786122

00:30:28.800 --> 00:30:30.660 ability to imagine future actions.
NOTE Confidence: 0.975118

00:30:31.200 --> 00:30:32.320 Now you might be wondering
NOTE Confidence: 0.975118

00:30:32.320 --> 00:30:33.680 why look at this basic
NOTE Confidence: 0.975118

00:30:33.680 --> 00:30:35.685 cognitive ability in such a
NOTE Confidence: 0.975118

00:30:35.845 --> 00:30:37.305 clinically acute environment.
NOTE Confidence: 0.9633493

00:30:38.405 --> 00:30:40.005 And one of the reasons
NOTE Confidence: 0.9633493

00:30:40.005 --> 00:30:41.445 why, I'm sure many of
NOTE Confidence: 0.9633493

00:30:41.445 --> 00:30:42.725 you are familiar with safety
NOTE Confidence: 0.9633493

00:30:42.725 --> 00:30:44.025 planning as a common,
NOTE Confidence: 0.95778656

00:30:45.125 --> 00:30:47.305 brief intervention that's delivered. And,
NOTE Confidence: 0.99507505

00:30:48.980 --> 00:30:50.180 if you think about kind
NOTE Confidence: 0.99507505

00:30:50.180 --> 00:30:51.620 of the the mechanics of

NOTE Confidence: 0.99507505
00:30:51.620 --> 00:30:52.440 safety planning,
NOTE Confidence: 0.9921089
00:30:52.900 --> 00:30:53.780 a lot of it is
NOTE Confidence: 0.9921089
00:30:53.780 --> 00:30:55.140 planning ahead for the future,
NOTE Confidence: 0.9921089
00:30:55.140 --> 00:30:55.640 anticipating,
NOTE Confidence: 0.9898286
00:30:56.660 --> 00:30:58.020 the next crisis to be
NOTE Confidence: 0.9898286
00:30:58.020 --> 00:30:59.300 able to create a cope
NOTE Confidence: 0.9898286
00:30:59.300 --> 00:31:01.300 ahead plan. And and imagine
NOTE Confidence: 0.9898286
00:31:01.300 --> 00:31:02.340 in your mind, you know,
NOTE Confidence: 0.9898286
00:31:02.340 --> 00:31:03.800 how likely it is that
NOTE Confidence: 0.9927374
00:31:04.215 --> 00:31:05.655 x coping strategy would be
NOTE Confidence: 0.9927374
00:31:05.655 --> 00:31:07.174 helpful or y coping strategy
NOTE Confidence: 0.9927374
00:31:07.174 --> 00:31:07.995 would be helpful.
NOTE Confidence: 0.97250825
00:31:11.174 --> 00:31:12.375 And then turning to other
NOTE Confidence: 0.97250825
00:31:12.375 --> 00:31:13.975 data streams, with a team
NOTE Confidence: 0.97250825
00:31:13.975 --> 00:31:16.054 of clinical psychologists and cognitive
NOTE Confidence: 0.97250825

00:31:16.054 --> 00:31:17.895 neuroscientists from the Laureate Institute
NOTE Confidence: 0.97250825

00:31:17.895 --> 00:31:18.875 for Brain Research,
NOTE Confidence: 0.9849855

00:31:19.580 --> 00:31:21.660 we recently found clinically meaningful
NOTE Confidence: 0.9849855

00:31:21.660 --> 00:31:23.900 differences in neural activity associated
NOTE Confidence: 0.9849855

00:31:23.900 --> 00:31:25.180 with future thinking. And this
NOTE Confidence: 0.9849855

00:31:25.180 --> 00:31:25.840 was in,
NOTE Confidence: 0.9824309

00:31:26.300 --> 00:31:28.300 the entire sample was, adult
NOTE Confidence: 0.9824309

00:31:28.300 --> 00:31:29.280 depressed patients,
NOTE Confidence: 0.98390985

00:31:29.740 --> 00:31:31.340 some of whom had history
NOTE Confidence: 0.98390985

00:31:31.340 --> 00:31:33.120 of suicidal thoughts and behaviors
NOTE Confidence: 0.98390985

00:31:33.365 --> 00:31:34.185 and some of whom had
NOTE Confidence: 0.98390985

00:31:34.405 --> 00:31:35.605 no history of suicidal thoughts
NOTE Confidence: 0.98390985

00:31:35.605 --> 00:31:36.725 and behaviors but did have
NOTE Confidence: 0.98390985

00:31:36.725 --> 00:31:37.225 depression.
NOTE Confidence: 0.9914568

00:31:38.005 --> 00:31:39.445 And so we saw among
NOTE Confidence: 0.9914568

00:31:39.445 --> 00:31:41.045 those depressed patients with a

NOTE Confidence: 0.9914568
00:31:41.045 --> 00:31:42.325 history of suicidal thoughts and
NOTE Confidence: 0.9914568
00:31:42.325 --> 00:31:42.825 behaviors,
NOTE Confidence: 0.9453576
00:31:43.525 --> 00:31:45.045 observing a blunted activation of
NOTE Confidence: 0.9453576
00:31:45.045 --> 00:31:46.745 the ventral medial prefrontal cortex
NOTE Confidence: 0.9453576
00:31:46.885 --> 00:31:48.265 relative to the non suicidal
NOTE Confidence: 0.9453576
00:31:48.325 --> 00:31:49.020 depressed control group,
NOTE Confidence: 0.9910539
00:31:49.820 --> 00:31:51.180 hinting at the possibility of
NOTE Confidence: 0.9910539
00:31:51.180 --> 00:31:52.640 a neural intervention target.
NOTE Confidence: 0.9826287
00:31:54.620 --> 00:31:56.780 So regarding next steps, pulling
NOTE Confidence: 0.9826287
00:31:56.780 --> 00:31:57.520 this together,
NOTE Confidence: 0.994244
00:31:57.900 --> 00:31:59.420 my research is now beginning
NOTE Confidence: 0.994244
00:31:59.420 --> 00:32:01.040 to pursue real time assessment
NOTE Confidence: 0.994244
00:32:01.260 --> 00:32:02.640 of death and life oriented
NOTE Confidence: 0.994244
00:32:02.700 --> 00:32:03.200 cognitions.
NOTE Confidence: 0.9868477
00:32:04.225 --> 00:32:05.264 One thing that we know
NOTE Confidence: 0.9868477

00:32:05.264 --> 00:32:07.024 about suicidal thoughts is that
NOTE Confidence: 0.9868477

00:32:07.024 --> 00:32:08.804 they are transient in nature.
NOTE Confidence: 0.9693043

00:32:09.345 --> 00:32:10.705 And that a person, even
NOTE Confidence: 0.9693043

00:32:10.705 --> 00:32:12.784 when struggling with severe suicidal
NOTE Confidence: 0.9693043

00:32:12.784 --> 00:32:14.625 thoughts, may not always want
NOTE Confidence: 0.9693043

00:32:14.625 --> 00:32:15.745 to die. And a main
NOTE Confidence: 0.9693043

00:32:15.745 --> 00:32:17.070 fact, again, like I said
NOTE Confidence: 0.9693043

00:32:17.070 --> 00:32:18.929 before, experience some ambivalence,
NOTE Confidence: 0.9894793

00:32:19.790 --> 00:32:21.970 termed this internal subjective struggle
NOTE Confidence: 0.9894793

00:32:22.030 --> 00:32:23.410 between life and death.
NOTE Confidence: 0.8427017

00:32:23.790 --> 00:32:25.790 But that capturing that internal
NOTE Confidence: 0.8427017

00:32:25.790 --> 00:32:26.140 subjective struggle can be hard
NOTE Confidence: 0.8427017

00:32:26.140 --> 00:32:27.250 relying on retrospective recall that
NOTE Confidence: 0.99762064

00:32:38.635 --> 00:32:40.715 capture these daily fluctuations with
NOTE Confidence: 0.99762064

00:32:40.715 --> 00:32:42.095 greater temporal granularity,
NOTE Confidence: 0.9936492

00:32:42.475 --> 00:32:43.710 we asked teens several times

NOTE Confidence: 0.9936492
00:32:43.710 --> 00:32:44.270 a day
NOTE Confidence: 0.99293023
00:32:45.130 --> 00:32:46.490 about their ongoing thoughts and
NOTE Confidence: 0.99293023
00:32:46.490 --> 00:32:47.930 feelings toward death and life
NOTE Confidence: 0.99293023
00:32:47.930 --> 00:32:48.810 as they go about their
NOTE Confidence: 0.99293023
00:32:48.810 --> 00:32:49.710 everyday lives.
NOTE Confidence: 0.98492235
00:32:50.170 --> 00:32:51.930 This was in, with parent
NOTE Confidence: 0.98492235
00:32:51.930 --> 00:32:53.690 consent, and then outside of
NOTE Confidence: 0.98492235
00:32:53.690 --> 00:32:54.510 school settings,
NOTE Confidence: 0.99501884
00:32:55.130 --> 00:32:56.670 delivered through a HIPAA compliant
NOTE Confidence: 0.99501884
00:32:56.810 --> 00:32:58.395 data collection app with parent,
NOTE Confidence: 0.99501884
00:32:58.475 --> 00:32:59.535 again, parent consent.
NOTE Confidence: 0.9718645
00:33:00.315 --> 00:33:02.155 And so this methodological approach
NOTE Confidence: 0.9718645
00:33:02.155 --> 00:33:04.175 known as ecological momentary assessment,
NOTE Confidence: 0.9103651
00:33:05.435 --> 00:33:05.915 was,
NOTE Confidence: 0.97482544
00:33:06.715 --> 00:33:08.555 administered in across a span
NOTE Confidence: 0.97482544

00:33:08.555 --> 00:33:09.615 of fourteen days,
NOTE Confidence: 0.9625724

00:33:09.915 --> 00:33:11.595 where adolescents were completing this
NOTE Confidence: 0.9625724

00:33:11.595 --> 00:33:12.475 as they were going about
NOTE Confidence: 0.9625724

00:33:12.475 --> 00:33:13.919 their every day. We had
NOTE Confidence: 0.9625724

00:33:13.919 --> 00:33:15.360 our team that was checking
NOTE Confidence: 0.9625724

00:33:15.360 --> 00:33:16.899 manually, and we also had
NOTE Confidence: 0.90834147

00:33:17.279 --> 00:33:19.200 an automated checking system to
NOTE Confidence: 0.90834147

00:33:19.200 --> 00:33:20.639 be gauging the level of
NOTE Confidence: 0.90834147

00:33:20.639 --> 00:33:21.139 suicidality,
NOTE Confidence: 0.9663575

00:33:21.919 --> 00:33:23.700 that was being endorsed. And,
NOTE Confidence: 0.9663575

00:33:23.759 --> 00:33:25.279 of course, clinicians like myself
NOTE Confidence: 0.9663575

00:33:25.279 --> 00:33:26.659 were on call to be
NOTE Confidence: 0.9663575

00:33:26.799 --> 00:33:27.299 intervening,
NOTE Confidence: 0.9985554

00:33:27.679 --> 00:33:28.879 checking in on youth as
NOTE Confidence: 0.9985554

00:33:28.879 --> 00:33:29.295 needed.
NOTE Confidence: 0.95432377

00:33:31.135 --> 00:33:32.815 And so we are actually

NOTE Confidence: 0.95432377
00:33:32.815 --> 00:33:34.275 wrapping up on this study,
NOTE Confidence: 0.9413999
00:33:34.575 --> 00:33:35.875 hopefully soon,
NOTE Confidence: 0.88853854
00:33:36.975 --> 00:33:37.375 with,
NOTE Confidence: 0.9391012
00:33:38.255 --> 00:33:39.875 my, former postdoc,
NOTE Confidence: 0.83260804
00:33:40.415 --> 00:33:42.435 and EMA expert, doctor Kayshen.
NOTE Confidence: 0.97843564
00:33:44.070 --> 00:33:45.670 And so far, our results
NOTE Confidence: 0.97843564
00:33:45.670 --> 00:33:46.650 are showing us
NOTE Confidence: 0.984971
00:33:47.510 --> 00:33:49.110 that, for instance, when we
NOTE Confidence: 0.984971
00:33:49.110 --> 00:33:50.710 are asking youth five times
NOTE Confidence: 0.984971
00:33:50.710 --> 00:33:51.750 a day, are you thinking
NOTE Confidence: 0.984971
00:33:51.750 --> 00:33:52.950 about the past, present, or
NOTE Confidence: 0.984971
00:33:52.950 --> 00:33:54.010 future right now?
NOTE Confidence: 0.9924787
00:33:55.365 --> 00:33:57.045 Overall, they spend about one
NOTE Confidence: 0.9924787
00:33:57.045 --> 00:33:58.325 third of their time thinking
NOTE Confidence: 0.9924787
00:33:58.325 --> 00:33:59.545 about their future.
NOTE Confidence: 0.9810376

00:34:00.005 --> 00:34:01.845 And we find that these,
NOTE Confidence: 0.99798864

00:34:02.245 --> 00:34:04.025 moments when teens are experiencing
NOTE Confidence: 0.99798864

00:34:04.165 --> 00:34:05.305 suicidal ideation,
NOTE Confidence: 0.9986773

00:34:06.165 --> 00:34:07.365 there is a unique way
NOTE Confidence: 0.9986773

00:34:07.365 --> 00:34:08.645 in which they're viewing their
NOTE Confidence: 0.9986773

00:34:08.645 --> 00:34:09.545 future life.
NOTE Confidence: 0.9858458

00:34:09.844 --> 00:34:11.260 They perceive their future life
NOTE Confidence: 0.9858458

00:34:11.260 --> 00:34:12.780 to be negative and very
NOTE Confidence: 0.9858458

00:34:12.780 --> 00:34:14.780 far away, meaning not pertaining
NOTE Confidence: 0.9858458

00:34:14.780 --> 00:34:15.900 to the next few minutes
NOTE Confidence: 0.9858458

00:34:15.900 --> 00:34:16.780 or hours in the day,
NOTE Confidence: 0.9858458

00:34:16.780 --> 00:34:18.540 but instead the distant and
NOTE Confidence: 0.9858458

00:34:18.540 --> 00:34:20.239 potentially more abstract future.
NOTE Confidence: 0.9932932

00:34:20.700 --> 00:34:22.300 And they experience these thoughts
NOTE Confidence: 0.9932932

00:34:22.300 --> 00:34:24.080 as being intrusive and uncontrollable
NOTE Confidence: 0.9932932

00:34:24.300 --> 00:34:24.960 in nature.

NOTE Confidence: 0.98714167
00:34:26.594 --> 00:34:27.875 And building on this initial
NOTE Confidence: 0.98714167
00:34:27.875 --> 00:34:29.635 self report based methodology, we're
NOTE Confidence: 0.98714167
00:34:29.635 --> 00:34:30.915 expanding to not only what
NOTE Confidence: 0.98714167
00:34:30.915 --> 00:34:32.594 youth self report, but how
NOTE Confidence: 0.98714167
00:34:32.594 --> 00:34:33.494 they are reporting,
NOTE Confidence: 0.9706019
00:34:34.035 --> 00:34:35.335 by looking at facial,
NOTE Confidence: 0.9495699
00:34:35.635 --> 00:34:37.075 expressions as well as vocal
NOTE Confidence: 0.9495699
00:34:37.075 --> 00:34:37.575 features,
NOTE Confidence: 0.99787927
00:34:38.690 --> 00:34:40.070 as well as other biomarkers
NOTE Confidence: 0.99787927
00:34:40.130 --> 00:34:41.250 and digital markers that could
NOTE Confidence: 0.99787927
00:34:41.250 --> 00:34:42.850 be captured passively and in
NOTE Confidence: 0.99787927
00:34:42.850 --> 00:34:43.590 real time.
NOTE Confidence: 0.99597263
00:34:44.530 --> 00:34:45.970 With pilot work led by
NOTE Confidence: 0.99597263
00:34:45.970 --> 00:34:46.470 PGA,
NOTE Confidence: 0.8292763
00:34:47.330 --> 00:34:48.310 Maria Hansruth.
NOTE Confidence: 0.9886347

00:34:48.610 --> 00:34:50.070 I'm gonna embarrass Maria.
NOTE Confidence: 0.9890021

00:34:50.610 --> 00:34:51.110 Maria,
NOTE Confidence: 0.95081955

00:34:51.570 --> 00:34:53.250 has been doing, excellent work
NOTE Confidence: 0.95081955

00:34:53.250 --> 00:34:54.165 in taking a look at
NOTE Confidence: 0.95081955

00:34:54.165 --> 00:34:54.905 our pilot
NOTE Confidence: 0.991762

00:34:55.205 --> 00:34:56.965 data, examining facial action data
NOTE Confidence: 0.991762

00:34:56.965 --> 00:34:58.965 in suicidal young adults while
NOTE Confidence: 0.991762

00:34:58.965 --> 00:35:00.825 they're imagining their future event.
NOTE Confidence: 0.87830436

00:35:01.285 --> 00:35:02.025 And specifically,
NOTE Confidence: 0.9982321

00:35:02.805 --> 00:35:04.185 we've been finding that,
NOTE Confidence: 0.89507014

00:35:04.485 --> 00:35:06.005 suicidal young adults compared to
NOTE Confidence: 0.89507014

00:35:06.005 --> 00:35:06.805 non suicidal display,
NOTE Confidence: 0.9752695

00:35:08.150 --> 00:35:09.830 action unit six and twelve,
NOTE Confidence: 0.9752695

00:35:09.830 --> 00:35:11.110 otherwise known as the Duchenne
NOTE Confidence: 0.9752695

00:35:11.110 --> 00:35:11.610 smile,
NOTE Confidence: 0.9113915

00:35:12.150 --> 00:35:14.230 for significantly fewer frames of

NOTE Confidence: 0.9113915
00:35:14.230 --> 00:35:15.850 the video recorded,
NOTE Confidence: 0.95598555
00:35:18.070 --> 00:35:19.910 future event description compared to
NOTE Confidence: 0.95598555
00:35:19.910 --> 00:35:21.675 nonsuicidal young adults. And this,
NOTE Confidence: 0.9855309
00:35:22.315 --> 00:35:24.155 seems specific to future thinking
NOTE Confidence: 0.9855309
00:35:24.155 --> 00:35:25.515 prompts because we're not seeing
NOTE Confidence: 0.9855309
00:35:25.515 --> 00:35:26.875 that same pattern come out,
NOTE Confidence: 0.9855309
00:35:26.875 --> 00:35:28.315 for instance, when they're engaging
NOTE Confidence: 0.9855309
00:35:28.315 --> 00:35:29.835 in different topics of conversation
NOTE Confidence: 0.9855309
00:35:29.835 --> 00:35:31.055 during that same visit.
NOTE Confidence: 0.9474711
00:35:33.515 --> 00:35:34.395 And this work I also
NOTE Confidence: 0.9474711
00:35:34.395 --> 00:35:35.855 wanna mention is in coordination
NOTE Confidence: 0.9474711
00:35:35.915 --> 00:35:36.975 with Ellen Lee.
NOTE Confidence: 0.9733736
00:35:37.290 --> 00:35:39.210 I'm gonna embarrass Ellen over
NOTE Confidence: 0.9733736
00:35:39.210 --> 00:35:39.710 there,
NOTE Confidence: 0.9626676
00:35:40.489 --> 00:35:41.770 and Shirley Wang who's in
NOTE Confidence: 0.9626676

00:35:41.770 --> 00:35:42.590 the psych department,
NOTE Confidence: 0.99258596

00:35:43.050 --> 00:35:44.010 just right down the road
NOTE Confidence: 0.99258596

00:35:44.010 --> 00:35:45.610 on College Street, who's launching
NOTE Confidence: 0.99258596

00:35:45.610 --> 00:35:46.110 her,
NOTE Confidence: 0.98238665

00:35:46.410 --> 00:35:48.330 real time multimodal assessment study
NOTE Confidence: 0.98238665

00:35:48.330 --> 00:35:50.250 this year, in suicidal young
NOTE Confidence: 0.98238665

00:35:50.250 --> 00:35:52.094 adults, with, us,
NOTE Confidence: 0.9760771

00:35:52.655 --> 00:35:54.815 launching with suicidal adolescents and
NOTE Confidence: 0.9760771

00:35:54.815 --> 00:35:55.475 their parents,
NOTE Confidence: 0.9811909

00:35:56.575 --> 00:35:57.935 in hopes to coordinate key
NOTE Confidence: 0.9811909

00:35:57.935 --> 00:35:59.315 parts of our data collection
NOTE Confidence: 0.9811909

00:35:59.375 --> 00:36:01.535 to facilitate data harmonization later
NOTE Confidence: 0.9811909

00:36:01.535 --> 00:36:02.035 on.
NOTE Confidence: 0.95610934

00:36:02.655 --> 00:36:04.035 And as Ellen,
NOTE Confidence: 0.86745244

00:36:04.415 --> 00:36:06.160 who is our apply applied
NOTE Confidence: 0.86745244

00:36:06.160 --> 00:36:07.540 AI expert can tell you,

NOTE Confidence: 0.9986885
00:36:08.160 --> 00:36:10.000 the reason and motivation for
NOTE Confidence: 0.9986885
00:36:10.000 --> 00:36:10.820 data harmonization
NOTE Confidence: 0.9984237
00:36:11.440 --> 00:36:13.120 is because work that would
NOTE Confidence: 0.9984237
00:36:13.120 --> 00:36:14.719 be leveraging deep learning models,
NOTE Confidence: 0.9984237
00:36:14.719 --> 00:36:16.000 which is really what this
NOTE Confidence: 0.9984237
00:36:16.000 --> 00:36:17.060 approach would demand,
NOTE Confidence: 0.998888
00:36:17.920 --> 00:36:19.780 requires larger sample sizes.
NOTE Confidence: 0.9938205
00:36:22.825 --> 00:36:24.425 So one other exciting step
NOTE Confidence: 0.9938205
00:36:24.425 --> 00:36:25.864 that we're taking in why
NOTE Confidence: 0.9938205
00:36:25.864 --> 00:36:28.105 adolescents consider suicide is to
NOTE Confidence: 0.9938205
00:36:28.105 --> 00:36:29.965 summarize time series data,
NOTE Confidence: 0.95622164
00:36:30.425 --> 00:36:31.785 that we've been collecting in
NOTE Confidence: 0.95622164
00:36:31.785 --> 00:36:32.285 adolescents.
NOTE Confidence: 0.9819919
00:36:33.305 --> 00:36:34.265 And what I mean by
NOTE Confidence: 0.9819919
00:36:34.265 --> 00:36:35.789 this is taking intradaily
NOTE Confidence: 0.98041016

00:36:36.089 --> 00:36:37.529 time series data, which can
NOTE Confidence: 0.98041016

00:36:37.529 --> 00:36:38.969 be nuanced and not the
NOTE Confidence: 0.98041016

00:36:38.969 --> 00:36:40.910 easiest for anyone to interpret,
NOTE Confidence: 0.9984319

00:36:41.369 --> 00:36:42.410 and deliver it in a
NOTE Confidence: 0.9984319

00:36:42.410 --> 00:36:44.329 meaningful summary to youth, their
NOTE Confidence: 0.9984319

00:36:44.329 --> 00:36:45.950 families, and to their providers.
NOTE Confidence: 0.9458227

00:36:47.445 --> 00:36:48.725 This would be, for instance,
NOTE Confidence: 0.9458227

00:36:48.725 --> 00:36:50.665 this, these are EMA responses
NOTE Confidence: 0.9458227

00:36:50.725 --> 00:36:52.425 from a de identified patient,
NOTE Confidence: 0.9279201

00:36:52.725 --> 00:36:53.225 participant,
NOTE Confidence: 0.99561036

00:36:54.645 --> 00:36:55.145 where,
NOTE Confidence: 0.99324435

00:36:55.605 --> 00:36:57.125 you know, for instance, taking
NOTE Confidence: 0.99324435

00:36:57.125 --> 00:36:58.725 average responses from a single
NOTE Confidence: 0.99324435

00:36:58.725 --> 00:37:00.265 day of their EMA surveys,
NOTE Confidence: 0.9735037

00:37:01.410 --> 00:37:01.910 where,
NOTE Confidence: 0.98747164

00:37:02.290 --> 00:37:03.410 on their first day of

NOTE Confidence: 0.98747164
00:37:03.410 --> 00:37:05.170 the EMA survey, they reported
NOTE Confidence: 0.98747164
00:37:05.170 --> 00:37:06.369 a low to moderate wish
NOTE Confidence: 0.98747164
00:37:06.369 --> 00:37:08.690 to die shown in dark
NOTE Confidence: 0.98747164
00:37:08.690 --> 00:37:09.170 yellow,
NOTE Confidence: 0.9980432
00:37:09.489 --> 00:37:10.690 and a high wish to
NOTE Confidence: 0.9980432
00:37:10.690 --> 00:37:11.989 live shown in green.
NOTE Confidence: 0.99273187
00:37:13.325 --> 00:37:14.684 Day two, you start seeing
NOTE Confidence: 0.99273187
00:37:14.684 --> 00:37:15.404 a little bit of a
NOTE Confidence: 0.99273187
00:37:15.404 --> 00:37:16.464 concerning pattern,
NOTE Confidence: 0.98905367
00:37:16.924 --> 00:37:18.045 with a reduced wish to
NOTE Confidence: 0.98905367
00:37:18.045 --> 00:37:19.484 live and an increased wish
NOTE Confidence: 0.98905367
00:37:19.484 --> 00:37:20.145 to die.
NOTE Confidence: 0.9860049
00:37:21.164 --> 00:37:22.605 But then you continue following
NOTE Confidence: 0.9860049
00:37:22.605 --> 00:37:24.045 up, and you see this
NOTE Confidence: 0.9860049
00:37:24.045 --> 00:37:25.744 recovery that seems to sustain
NOTE Confidence: 0.9860049

00:37:25.805 --> 00:37:26.625 over time.
NOTE Confidence: 0.99787813

00:37:27.230 --> 00:37:28.770 And now while this information
NOTE Confidence: 0.99787813

00:37:28.829 --> 00:37:30.589 itself might be helpful in
NOTE Confidence: 0.99787813

00:37:30.589 --> 00:37:31.890 getting a sense of what,
NOTE Confidence: 0.97391784

00:37:32.190 --> 00:37:34.109 an a given adolescent's baseline
NOTE Confidence: 0.97391784

00:37:34.109 --> 00:37:35.390 might look like, there does
NOTE Confidence: 0.97391784

00:37:35.390 --> 00:37:36.589 remain this question of what
NOTE Confidence: 0.97391784

00:37:36.589 --> 00:37:37.710 accounts for some of these
NOTE Confidence: 0.97391784

00:37:37.710 --> 00:37:38.210 fluctuations.
NOTE Confidence: 0.9773108

00:37:38.510 --> 00:37:40.575 And so, we also capture,
NOTE Confidence: 0.9987043

00:37:40.895 --> 00:37:42.835 information around potential stressors,
NOTE Confidence: 0.954573

00:37:43.215 --> 00:37:44.815 negative events, and positive events
NOTE Confidence: 0.954573

00:37:44.815 --> 00:37:46.015 that they experience throughout the
NOTE Confidence: 0.954573

00:37:46.015 --> 00:37:47.855 day. So for instance, we
NOTE Confidence: 0.954573

00:37:47.855 --> 00:37:49.555 know from this particular teen,
NOTE Confidence: 0.97535515

00:37:49.935 --> 00:37:51.055 that on day two, when

NOTE Confidence: 0.97535515
00:37:51.055 --> 00:37:52.195 they had that decline,
NOTE Confidence: 0.991334
00:37:52.655 --> 00:37:54.230 there were notable school stressors
NOTE Confidence: 0.991334
00:37:54.230 --> 00:37:55.510 that they reported at the
NOTE Confidence: 0.991334
00:37:55.510 --> 00:37:56.329 end of the day.
NOTE Confidence: 0.9875969
00:37:56.869 --> 00:37:58.390 And then picking day nine,
NOTE Confidence: 0.9875969
00:37:58.390 --> 00:37:59.190 which was one of the
NOTE Confidence: 0.9875969
00:37:59.190 --> 00:37:59.690 stronger,
NOTE Confidence: 0.9619311
00:38:00.230 --> 00:38:01.349 days, they,
NOTE Confidence: 0.9782098
00:38:01.989 --> 00:38:04.069 report, positive events such as
NOTE Confidence: 0.9782098
00:38:04.069 --> 00:38:04.969 receiving compliments.
NOTE Confidence: 0.9954574
00:38:07.385 --> 00:38:08.525 Now this idea
NOTE Confidence: 0.9998503
00:38:08.905 --> 00:38:09.724 of ambulatory
NOTE Confidence: 0.97471344
00:38:10.025 --> 00:38:10.525 assessment,
NOTE Confidence: 0.98658705
00:38:11.145 --> 00:38:12.665 is not limited to research
NOTE Confidence: 0.98658705
00:38:12.665 --> 00:38:13.165 studies.
NOTE Confidence: 0.98528516

00:38:13.785 --> 00:38:14.984 And in fact, our colleagues
NOTE Confidence: 0.98528516

00:38:14.984 --> 00:38:16.825 in cardiology offer nice examples
NOTE Confidence: 0.98528516

00:38:16.825 --> 00:38:17.864 of how this work has
NOTE Confidence: 0.98528516

00:38:17.864 --> 00:38:18.984 been put to work in
NOTE Confidence: 0.98528516

00:38:18.984 --> 00:38:19.964 clinical settings.
NOTE Confidence: 0.9467678

00:38:20.640 --> 00:38:21.599 And so some of you
NOTE Confidence: 0.9467678

00:38:21.599 --> 00:38:22.719 might be familiar with this
NOTE Confidence: 0.9467678

00:38:22.719 --> 00:38:23.219 example,
NOTE Confidence: 0.9702482

00:38:24.799 --> 00:38:25.920 but it just really struck
NOTE Confidence: 0.9702482

00:38:25.920 --> 00:38:27.140 me, recently,
NOTE Confidence: 0.74456596

00:38:27.599 --> 00:38:28.099 in,
NOTE Confidence: 0.96606445

00:38:28.880 --> 00:38:29.760 have folks heard of the
NOTE Confidence: 0.96606445

00:38:29.760 --> 00:38:30.900 Zio or or,
NOTE Confidence: 0.9715575

00:38:31.200 --> 00:38:32.579 observed the Zio before?
NOTE Confidence: 0.98138493

00:38:32.880 --> 00:38:33.280 So,
NOTE Confidence: 0.9994583

00:38:33.680 --> 00:38:34.640 just to kind of share

NOTE Confidence: 0.9994583
00:38:34.640 --> 00:38:35.775 this example of
NOTE Confidence: 0.94376135
00:38:36.895 --> 00:38:38.914 ambulatory assessment in action.
NOTE Confidence: 0.96003616
00:38:39.614 --> 00:38:40.575 So the Zio is a
NOTE Confidence: 0.96003616
00:38:40.575 --> 00:38:43.234 lightweight FDA approved portable ECG
NOTE Confidence: 0.9646509
00:38:43.694 --> 00:38:44.494 in the form of an
NOTE Confidence: 0.9646509
00:38:44.494 --> 00:38:47.214 adhesive patch monitor that's suitable
NOTE Confidence: 0.9646509
00:38:47.214 --> 00:38:49.075 for detecting cardiac arrhythmia,
NOTE Confidence: 0.96550673
00:38:50.300 --> 00:38:52.060 Where across seven to fourteen
NOTE Confidence: 0.96550673
00:38:52.060 --> 00:38:53.500 days, pretty comparable to the
NOTE Confidence: 0.96550673
00:38:53.500 --> 00:38:55.100 type of EMA responses we've
NOTE Confidence: 0.96550673
00:38:55.100 --> 00:38:55.600 been,
NOTE Confidence: 0.91371524
00:38:55.980 --> 00:38:56.480 collecting,
NOTE Confidence: 0.98106444
00:38:56.859 --> 00:38:57.500 a patient,
NOTE Confidence: 0.9663693
00:38:58.700 --> 00:39:00.300 cardiology patient could go about
NOTE Confidence: 0.9663693
00:39:00.300 --> 00:39:01.660 their everyday life when they
NOTE Confidence: 0.9663693

00:39:01.660 --> 00:39:02.940 experience what they feel like
NOTE Confidence: 0.9663693

00:39:02.940 --> 00:39:04.320 in a regular heart activity,
NOTE Confidence: 0.97436506

00:39:04.704 --> 00:39:05.744 push the button on the
NOTE Confidence: 0.97436506

00:39:05.744 --> 00:39:06.244 ZeoPac
NOTE Confidence: 0.95646435

00:39:06.545 --> 00:39:07.825 and report in the synced
NOTE Confidence: 0.95646435

00:39:07.825 --> 00:39:09.424 phone app, what they are
NOTE Confidence: 0.95646435

00:39:09.424 --> 00:39:09.924 experiencing.
NOTE Confidence: 0.970499

00:39:10.944 --> 00:39:12.385 And this device is then
NOTE Confidence: 0.970499

00:39:12.385 --> 00:39:13.825 removed and mailed at the
NOTE Confidence: 0.970499

00:39:13.825 --> 00:39:14.864 end of the seven or
NOTE Confidence: 0.970499

00:39:14.864 --> 00:39:16.545 fourteen days, after which the
NOTE Confidence: 0.970499

00:39:16.545 --> 00:39:18.385 clinician receives the Zeo Patch
NOTE Confidence: 0.970499

00:39:18.385 --> 00:39:20.520 report and guides clinical decision
NOTE Confidence: 0.970499

00:39:20.520 --> 00:39:21.739 making when identifying,
NOTE Confidence: 0.99925256

00:39:22.040 --> 00:39:23.020 types of arrhythmia.
NOTE Confidence: 0.9706156

00:39:24.360 --> 00:39:25.320 So this is just kind

NOTE Confidence: 0.9706156
00:39:25.320 --> 00:39:26.440 of it struck me as
NOTE Confidence: 0.9706156
00:39:26.440 --> 00:39:28.040 a an example of how
NOTE Confidence: 0.9706156
00:39:28.040 --> 00:39:29.239 this is not what we're
NOTE Confidence: 0.9706156
00:39:29.239 --> 00:39:30.520 talking about and what we're
NOTE Confidence: 0.9706156
00:39:30.520 --> 00:39:31.340 referring to,
NOTE Confidence: 0.9997302
00:39:31.800 --> 00:39:32.300 isn't
NOTE Confidence: 0.780447
00:39:32.925 --> 00:39:33.425 hypothetical.
NOTE Confidence: 0.95743823
00:39:33.885 --> 00:39:35.665 And this, idea of,
NOTE Confidence: 0.9939851
00:39:36.685 --> 00:39:38.525 creating an EMA report, which
NOTE Confidence: 0.9939851
00:39:38.525 --> 00:39:40.045 is something that, clinics have
NOTE Confidence: 0.9939851
00:39:40.045 --> 00:39:41.025 started to do,
NOTE Confidence: 0.9800841
00:39:41.405 --> 00:39:43.325 is a way of, leveraging
NOTE Confidence: 0.9800841
00:39:43.325 --> 00:39:44.285 some of the data that
NOTE Confidence: 0.9800841
00:39:44.285 --> 00:39:45.565 we're already collecting through our
NOTE Confidence: 0.9800841
00:39:45.565 --> 00:39:46.465 research studies,
NOTE Confidence: 0.9633195

00:39:46.989 --> 00:39:48.670 and then partnering hopefully with
NOTE Confidence: 0.9633195

00:39:48.670 --> 00:39:50.590 clinicians to, figure out what
NOTE Confidence: 0.9633195

00:39:50.590 --> 00:39:51.489 would be the most
NOTE Confidence: 0.9546855

00:39:51.870 --> 00:39:53.870 clinically meaningful and helpful things,
NOTE Confidence: 0.9886748

00:39:54.510 --> 00:39:56.110 for providers to know, let's
NOTE Confidence: 0.9886748

00:39:56.110 --> 00:39:57.730 say, before a session begins.
NOTE Confidence: 0.9986723

00:40:00.464 --> 00:40:00.964 Finally,
NOTE Confidence: 0.98710847

00:40:01.585 --> 00:40:03.184 even after identifying who is
NOTE Confidence: 0.98710847

00:40:03.184 --> 00:40:04.864 at risk and why, there
NOTE Confidence: 0.98710847

00:40:04.864 --> 00:40:05.984 remains a question of what
NOTE Confidence: 0.98710847

00:40:05.984 --> 00:40:07.664 exactly to do, if someone
NOTE Confidence: 0.98710847

00:40:07.664 --> 00:40:08.785 does appear to be at
NOTE Confidence: 0.98710847

00:40:08.785 --> 00:40:09.285 risk.
NOTE Confidence: 0.9891065

00:40:09.744 --> 00:40:11.184 My third newest line of
NOTE Confidence: 0.9891065

00:40:11.184 --> 00:40:12.964 research seeks to mitigate suicide
NOTE Confidence: 0.9891065

00:40:13.025 --> 00:40:14.964 risk through key intervention targets.

NOTE Confidence: 0.9555735
00:40:16.080 --> 00:40:17.680 And the one I'll speak
NOTE Confidence: 0.9555735
00:40:17.680 --> 00:40:19.600 most about is pertaining to
NOTE Confidence: 0.9555735
00:40:19.600 --> 00:40:21.460 this construct of future thinking.
NOTE Confidence: 0.98643905
00:40:22.240 --> 00:40:23.120 And it takes on more
NOTE Confidence: 0.98643905
00:40:23.120 --> 00:40:24.400 of a resilience kind of
NOTE Confidence: 0.98643905
00:40:24.400 --> 00:40:25.680 framework trying to help those
NOTE Confidence: 0.98643905
00:40:25.680 --> 00:40:27.120 at risk, trying to connect
NOTE Confidence: 0.98643905
00:40:27.120 --> 00:40:28.960 with the alternative path of
NOTE Confidence: 0.98643905
00:40:28.960 --> 00:40:30.180 continuing to live.
NOTE Confidence: 0.99912477
00:40:31.185 --> 00:40:32.705 And we've started to explore
NOTE Confidence: 0.99912477
00:40:32.705 --> 00:40:34.165 future thinking as an intervention
NOTE Confidence: 0.99912477
00:40:34.305 --> 00:40:36.145 target in two ways. So
NOTE Confidence: 0.99912477
00:40:36.145 --> 00:40:37.344 the first has been through
NOTE Confidence: 0.99912477
00:40:37.344 --> 00:40:39.125 testing a ten minute cognitive
NOTE Confidence: 0.99912477
00:40:39.185 --> 00:40:39.685 exercise
NOTE Confidence: 0.963248

00:40:39.985 --> 00:40:41.445 in which we coach youth
NOTE Confidence: 0.963248

00:40:41.665 --> 00:40:42.945 on ways to generate more
NOTE Confidence: 0.963248

00:40:42.945 --> 00:40:44.245 detailed mental image
NOTE Confidence: 0.98661786

00:40:44.640 --> 00:40:46.239 of their life events. And
NOTE Confidence: 0.98661786

00:40:46.239 --> 00:40:47.520 what we found is that
NOTE Confidence: 0.98661786

00:40:47.520 --> 00:40:49.440 this ten minute exercise improves
NOTE Confidence: 0.98661786

00:40:49.440 --> 00:40:50.900 the quality of future thoughts,
NOTE Confidence: 0.99946094

00:40:52.319 --> 00:40:53.680 and the number of internal
NOTE Confidence: 0.99946094

00:40:53.680 --> 00:40:54.980 details that they generate.
NOTE Confidence: 0.9782815

00:40:55.680 --> 00:40:56.339 We also,
NOTE Confidence: 0.8821883

00:40:56.960 --> 00:40:58.660 administer to control narrative
NOTE Confidence: 0.99552864

00:40:59.025 --> 00:41:00.625 style task and observed no
NOTE Confidence: 0.99552864

00:41:00.625 --> 00:41:02.704 change in general narrative style
NOTE Confidence: 0.99552864

00:41:02.704 --> 00:41:04.164 before and after this induction.
NOTE Confidence: 0.99552864

00:41:04.385 --> 00:41:05.344 It really seemed to be
NOTE Confidence: 0.99552864

00:41:05.344 --> 00:41:06.625 specific to the quality of

NOTE Confidence: 0.99552864
00:41:06.625 --> 00:41:07.744 future thoughts that they were
NOTE Confidence: 0.99552864
00:41:07.744 --> 00:41:08.244 demonstrating.
NOTE Confidence: 0.98943233
00:41:09.825 --> 00:41:10.805 A separate approach,
NOTE Confidence: 0.9894089
00:41:11.184 --> 00:41:11.984 for the lack of a
NOTE Confidence: 0.9894089
00:41:11.984 --> 00:41:12.724 better term,
NOTE Confidence: 0.913796
00:41:13.424 --> 00:41:15.579 is, through brain exercises through
NOTE Confidence: 0.913796
00:41:15.579 --> 00:41:17.520 a ninety minute interactive fMRI
NOTE Confidence: 0.913796
00:41:17.739 --> 00:41:18.480 scan session
NOTE Confidence: 0.97931606
00:41:18.780 --> 00:41:20.160 that focuses on the ventromedial
NOTE Confidence: 0.97931606
00:41:20.300 --> 00:41:21.280 prefrontal cortex,
NOTE Confidence: 0.9785004
00:41:22.060 --> 00:41:22.780 a part of the brain
NOTE Confidence: 0.9785004
00:41:22.780 --> 00:41:24.540 I I referenced earlier, which
NOTE Confidence: 0.9785004
00:41:24.540 --> 00:41:26.780 we know demonstrates this blunted
NOTE Confidence: 0.9785004
00:41:26.780 --> 00:41:29.045 activity among depressed suicidal patients
NOTE Confidence: 0.9785004
00:41:29.045 --> 00:41:30.825 while they're imagining their future.
NOTE Confidence: 0.93771625

00:41:32.404 --> 00:41:33.844 And during the scan session,
NOTE Confidence: 0.93771625

00:41:33.844 --> 00:41:35.684 we show suicidal patients the
NOTE Confidence: 0.93771625

00:41:35.684 --> 00:41:36.085 live,
NOTE Confidence: 0.98676234

00:41:36.565 --> 00:41:38.424 degree of hemodynamic activity,
NOTE Confidence: 0.94801104

00:41:38.724 --> 00:41:40.244 in their own VMPFC while
NOTE Confidence: 0.94801104

00:41:40.244 --> 00:41:41.765 they're imagining their future shown
NOTE Confidence: 0.94801104

00:41:41.765 --> 00:41:42.840 in the red bar here,
NOTE Confidence: 0.94801104

00:41:43.000 --> 00:41:44.120 while providing them with a
NOTE Confidence: 0.94801104

00:41:44.120 --> 00:41:46.040 target level activity, blue bar,
NOTE Confidence: 0.94801104

00:41:46.040 --> 00:41:46.780 to reach.
NOTE Confidence: 0.97741175

00:41:47.640 --> 00:41:48.780 And this is a noninvasive
NOTE Confidence: 0.97741175

00:41:49.000 --> 00:41:49.660 and nonpharmacologic
NOTE Confidence: 0.9809991

00:41:50.200 --> 00:41:50.700 procedure,
NOTE Confidence: 0.98808944

00:41:51.160 --> 00:41:52.840 avoiding the typical side effects
NOTE Confidence: 0.98808944

00:41:52.840 --> 00:41:54.060 when prescribing medication,
NOTE Confidence: 0.9641961

00:41:54.840 --> 00:41:55.960 and so far has been

NOTE Confidence: 0.9641961

00:41:55.960 --> 00:41:57.800 tested among a handful, I

NOTE Confidence: 0.9641961

00:41:57.800 --> 00:42:00.425 believe, six, depressed suicidal patients

NOTE Confidence: 0.97590107

00:42:00.965 --> 00:42:02.165 who reported this to be

NOTE Confidence: 0.97590107

00:42:02.165 --> 00:42:03.945 a feasible and acceptable intervention

NOTE Confidence: 0.97590107

00:42:04.005 --> 00:42:04.505 approach.

NOTE Confidence: 0.9596963

00:42:07.685 --> 00:42:09.364 And then I referenced safety

NOTE Confidence: 0.9596963

00:42:09.364 --> 00:42:10.905 planning earlier as

NOTE Confidence: 0.95521873

00:42:11.739 --> 00:42:13.020 kind of intertwined with this

NOTE Confidence: 0.95521873

00:42:13.020 --> 00:42:14.400 idea of future thinking.

NOTE Confidence: 0.98555994

00:42:14.780 --> 00:42:16.060 But we haven't actually tested

NOTE Confidence: 0.98555994

00:42:16.060 --> 00:42:17.340 this yet. And so, one

NOTE Confidence: 0.98555994

00:42:17.340 --> 00:42:18.460 thing that we're hoping to

NOTE Confidence: 0.98555994

00:42:18.460 --> 00:42:20.239 launch, also this summer,

NOTE Confidence: 0.9868017

00:42:20.780 --> 00:42:22.300 is looking at the quality

NOTE Confidence: 0.9868017

00:42:22.300 --> 00:42:23.985 of safety plans in reference

NOTE Confidence: 0.9868017

00:42:23.985 --> 00:42:24.485 to,
NOTE Confidence: 0.9683627
00:42:24.785 --> 00:42:26.625 first, the quality of future
NOTE Confidence: 0.9683627
00:42:26.625 --> 00:42:28.225 thinking, baseline quality of future
NOTE Confidence: 0.9683627
00:42:28.225 --> 00:42:30.325 thinking that suicidal adolescents display.
NOTE Confidence: 0.9683627
00:42:30.465 --> 00:42:31.525 Can they anticipate
NOTE Confidence: 0.9786741
00:42:31.905 --> 00:42:33.505 a greater number or a
NOTE Confidence: 0.9786741
00:42:33.505 --> 00:42:35.025 more realistic set of coping
NOTE Confidence: 0.9786741
00:42:35.025 --> 00:42:36.480 strategies that they might enact
NOTE Confidence: 0.9786741
00:42:36.480 --> 00:42:38.420 in an anticipated future crisis,
NOTE Confidence: 0.98952
00:42:39.040 --> 00:42:40.320 and then combining that with
NOTE Confidence: 0.98952
00:42:40.320 --> 00:42:41.460 the idea of a specificity
NOTE Confidence: 0.98952
00:42:41.680 --> 00:42:43.380 induction. So if we do
NOTE Confidence: 0.98952
00:42:43.520 --> 00:42:44.800 implement something like a ten
NOTE Confidence: 0.98952
00:42:44.800 --> 00:42:46.260 minute cognitive exercise,
NOTE Confidence: 0.98486906
00:42:46.640 --> 00:42:47.760 I make no claims about
NOTE Confidence: 0.98486906
00:42:47.760 --> 00:42:48.880 this type of ten minute

NOTE Confidence: 0.98486906
00:42:48.880 --> 00:42:49.940 exercise actually
NOTE Confidence: 0.99874276
00:42:50.445 --> 00:42:51.185 curing suicidality
NOTE Confidence: 0.98522776
00:42:51.565 --> 00:42:53.005 or helping someone be hopeful
NOTE Confidence: 0.98522776
00:42:53.005 --> 00:42:53.505 forever.
NOTE Confidence: 0.9927447
00:42:53.805 --> 00:42:55.005 But if there might be
NOTE Confidence: 0.9927447
00:42:55.005 --> 00:42:56.525 some key moments in the
NOTE Confidence: 0.9927447
00:42:56.525 --> 00:42:57.485 delivery of,
NOTE Confidence: 0.9767097
00:42:58.205 --> 00:43:00.364 known existing intervention strategies that
NOTE Confidence: 0.9767097
00:43:00.364 --> 00:43:02.285 may boost the effectiveness of
NOTE Confidence: 0.9767097
00:43:02.285 --> 00:43:03.965 those intervention strategies, such as
NOTE Confidence: 0.9767097
00:43:03.965 --> 00:43:06.030 safety planning, Might that be
NOTE Confidence: 0.9767097
00:43:06.030 --> 00:43:06.989 a way in which we
NOTE Confidence: 0.9767097
00:43:06.989 --> 00:43:07.890 can pair
NOTE Confidence: 0.9469228
00:43:08.510 --> 00:43:10.510 that ten minute exercise in
NOTE Confidence: 0.9469228
00:43:10.510 --> 00:43:11.170 a meaningful
NOTE Confidence: 0.9502097

00:43:11.630 --> 00:43:13.010 and beneficial way?
NOTE Confidence: 0.99416083

00:43:15.070 --> 00:43:16.610 In terms of next steps,
NOTE Confidence: 0.9975831

00:43:17.150 --> 00:43:18.370 we aim to go beyond
NOTE Confidence: 0.9975831

00:43:18.430 --> 00:43:19.664 internal experiences
NOTE Confidence: 0.97110313

00:43:20.204 --> 00:43:21.565 and focus on also the
NOTE Confidence: 0.97110313

00:43:21.565 --> 00:43:23.424 social context in which suicidal
NOTE Confidence: 0.97110313

00:43:23.484 --> 00:43:24.305 youth exist.
NOTE Confidence: 0.98374313

00:43:25.244 --> 00:43:26.525 So starting with the home
NOTE Confidence: 0.98374313

00:43:26.525 --> 00:43:27.884 and the relationship with their
NOTE Confidence: 0.98374313

00:43:27.884 --> 00:43:28.384 parents.
NOTE Confidence: 0.96339154

00:43:29.005 --> 00:43:30.285 So I think I mentioned
NOTE Confidence: 0.96339154

00:43:30.285 --> 00:43:31.805 this during the associates meeting
NOTE Confidence: 0.96339154

00:43:31.805 --> 00:43:32.625 in the fall,
NOTE Confidence: 0.9996699

00:43:33.164 --> 00:43:34.890 which is an observation that
NOTE Confidence: 0.9837317

00:43:35.369 --> 00:43:36.809 we've made time and time
NOTE Confidence: 0.9837317

00:43:36.809 --> 00:43:38.329 again across our studies and

NOTE Confidence: 0.9837317
00:43:38.329 --> 00:43:39.690 that I've seen clinically is
NOTE Confidence: 0.9837317
00:43:39.690 --> 00:43:41.529 that suicidal youth and their
NOTE Confidence: 0.9837317
00:43:41.529 --> 00:43:42.969 parents are not necessarily on
NOTE Confidence: 0.9837317
00:43:42.969 --> 00:43:43.869 the same page.
NOTE Confidence: 0.99782157
00:43:44.410 --> 00:43:45.210 And what I mean by
NOTE Confidence: 0.99782157
00:43:45.210 --> 00:43:46.589 this is that there's often
NOTE Confidence: 0.99782157
00:43:46.730 --> 00:43:48.734 fair to poor levels of
NOTE Confidence: 0.99782157
00:43:48.734 --> 00:43:50.174 parent child agreement when it
NOTE Confidence: 0.99782157
00:43:50.174 --> 00:43:50.914 comes to,
NOTE Confidence: 0.9416307
00:43:51.454 --> 00:43:51.934 the,
NOTE Confidence: 0.9992565
00:43:52.255 --> 00:43:53.694 degree of suicidal thoughts and
NOTE Confidence: 0.9992565
00:43:53.694 --> 00:43:55.055 behaviors that the youth is
NOTE Confidence: 0.9992565
00:43:55.055 --> 00:43:55.555 experiencing.
NOTE Confidence: 0.9887666
00:43:56.494 --> 00:43:57.954 And we've also found adolescents
NOTE Confidence: 0.9887666
00:43:58.094 --> 00:43:59.855 being concerned about fear of
NOTE Confidence: 0.9887666

00:43:59.855 --> 00:44:01.535 negative reaction in their parents

NOTE Confidence: 0.9887666

00:44:01.535 --> 00:44:03.030 or guardians or their sense

NOTE Confidence: 0.9887666

00:44:03.030 --> 00:44:04.870 of self reliance, as reasons

NOTE Confidence: 0.9887666

00:44:04.870 --> 00:44:05.770 to not disclose.

NOTE Confidence: 0.9772278

00:44:06.950 --> 00:44:08.810 We've also observed alarmingly,

NOTE Confidence: 0.9197495

00:44:09.350 --> 00:44:09.850 greater,

NOTE Confidence: 0.86263245

00:44:10.950 --> 00:44:12.010 degree of discrepancy

NOTE Confidence: 0.99243194

00:44:12.390 --> 00:44:14.010 between parent and child report

NOTE Confidence: 0.99243194

00:44:14.070 --> 00:44:15.964 about youth suicide risk,

NOTE Confidence: 0.97537404

00:44:16.664 --> 00:44:17.704 when it comes to racial

NOTE Confidence: 0.97537404

00:44:17.704 --> 00:44:18.364 and ethnic,

NOTE Confidence: 0.9933198

00:44:18.984 --> 00:44:19.484 groups.

NOTE Confidence: 0.9643934

00:44:20.265 --> 00:44:21.384 And so this,

NOTE Confidence: 0.9100289

00:44:21.704 --> 00:44:23.384 is in part informed by

NOTE Confidence: 0.9100289

00:44:23.384 --> 00:44:24.505 prior work in my lab

NOTE Confidence: 0.9100289

00:44:24.505 --> 00:44:26.265 led by my mentees, Carrie

NOTE Confidence: 0.9100289
00:44:26.265 --> 00:44:27.600 Ann Bell and Ilana Gratch,
NOTE Confidence: 0.9100289
00:44:27.840 --> 00:44:29.360 showing that when we examined
NOTE Confidence: 0.9100289
00:44:29.360 --> 00:44:30.739 a demographically diverse,
NOTE Confidence: 0.99075675
00:44:31.120 --> 00:44:32.739 set of parent youth dyads,
NOTE Confidence: 0.99075675
00:44:32.960 --> 00:44:34.400 a hundred percent of Asian
NOTE Confidence: 0.99075675
00:44:34.400 --> 00:44:36.000 American parents shown in red
NOTE Confidence: 0.99075675
00:44:36.000 --> 00:44:37.600 here were unaware or did
NOTE Confidence: 0.99075675
00:44:37.600 --> 00:44:39.280 not report suicidal thoughts and
NOTE Confidence: 0.99075675
00:44:39.280 --> 00:44:41.280 behaviors that were endorsed by
NOTE Confidence: 0.99075675
00:44:41.280 --> 00:44:42.020 their child.
NOTE Confidence: 0.9968791
00:44:43.425 --> 00:44:44.725 And so starting with,
NOTE Confidence: 0.96950155
00:44:46.065 --> 00:44:48.065 kind of focusing on, the
NOTE Confidence: 0.96950155
00:44:48.065 --> 00:44:49.344 home and really the Asian
NOTE Confidence: 0.96950155
00:44:49.344 --> 00:44:50.725 American immigrant community,
NOTE Confidence: 0.959371
00:44:51.665 --> 00:44:54.145 in collaboration with, counseling psychologist
NOTE Confidence: 0.959371

00:44:54.145 --> 00:44:55.905 Cindy Huang at University of
NOTE Confidence: 0.959371

00:44:55.905 --> 00:44:56.405 Oregon,
NOTE Confidence: 0.9631661

00:44:56.785 --> 00:44:58.465 we are, I believe, this
NOTE Confidence: 0.9631661

00:44:58.465 --> 00:45:00.910 week, launching, the family checkup
NOTE Confidence: 0.9811031

00:45:01.369 --> 00:45:03.710 adapted for, Asian American immigrant
NOTE Confidence: 0.75902426

00:45:04.730 --> 00:45:05.230 populations.
NOTE Confidence: 0.9847006

00:45:05.769 --> 00:45:07.130 And so the family checkup,
NOTE Confidence: 0.9847006

00:45:07.130 --> 00:45:07.930 some of you might be
NOTE Confidence: 0.9847006

00:45:07.930 --> 00:45:09.130 familiar with this, is really
NOTE Confidence: 0.9847006

00:45:09.130 --> 00:45:10.969 taking parent report and child
NOTE Confidence: 0.9847006

00:45:10.969 --> 00:45:13.289 report about family functioning as
NOTE Confidence: 0.9847006

00:45:13.289 --> 00:45:14.085 well as about,
NOTE Confidence: 0.988736

00:45:14.565 --> 00:45:15.765 both the strengths as well
NOTE Confidence: 0.988736

00:45:15.765 --> 00:45:17.285 as areas of improvement in
NOTE Confidence: 0.988736

00:45:17.285 --> 00:45:18.744 each of their views,
NOTE Confidence: 0.9966868

00:45:19.445 --> 00:45:21.065 collecting those pieces of information

NOTE Confidence: 0.9966868
00:45:21.285 --> 00:45:22.825 separately from those informants,
NOTE Confidence: 0.97061425
00:45:23.685 --> 00:45:24.805 as well as their views
NOTE Confidence: 0.97061425
00:45:24.805 --> 00:45:26.005 on how the child is
NOTE Confidence: 0.97061425
00:45:26.005 --> 00:45:28.140 doing. And then bringing together
NOTE Confidence: 0.97061425
00:45:28.140 --> 00:45:29.739 in session two, both parent
NOTE Confidence: 0.97061425
00:45:29.739 --> 00:45:31.280 and child and really navigating
NOTE Confidence: 0.97061425
00:45:31.339 --> 00:45:32.480 kind of where the discrepancies
NOTE Confidence: 0.97061425
00:45:32.619 --> 00:45:33.119 lie,
NOTE Confidence: 0.98606116
00:45:33.660 --> 00:45:35.339 in how each view family
NOTE Confidence: 0.98606116
00:45:35.339 --> 00:45:36.540 functioning as well as the
NOTE Confidence: 0.98606116
00:45:36.540 --> 00:45:37.359 youth functioning.
NOTE Confidence: 0.9906151
00:45:38.859 --> 00:45:39.579 And so,
NOTE Confidence: 0.99137676
00:45:40.085 --> 00:45:40.964 Cindy is,
NOTE Confidence: 0.9969151
00:45:41.285 --> 00:45:42.884 leading the charge in,
NOTE Confidence: 0.9712275
00:45:43.204 --> 00:45:45.364 and starting in Chinatown with,
NOTE Confidence: 0.9712275

00:45:45.605 --> 00:45:47.144 piloting this family checkup,
NOTE Confidence: 0.9940167

00:45:47.444 --> 00:45:49.545 specifically among those who experience
NOTE Confidence: 0.9940167

00:45:49.684 --> 00:45:50.805 among youth who are self
NOTE Confidence: 0.9940167

00:45:50.805 --> 00:45:52.585 reporting suicidal thoughts and behaviors.
NOTE Confidence: 0.9697097

00:45:54.480 --> 00:45:55.940 And tied to this study,
NOTE Confidence: 0.98168087

00:45:56.320 --> 00:45:58.400 we're also I I'm glad
NOTE Confidence: 0.98168087

00:45:58.400 --> 00:46:00.000 to have convinced Cindy. It
NOTE Confidence: 0.98168087

00:46:00.000 --> 00:46:01.780 didn't take much convincing, but
NOTE Confidence: 0.98168087

00:46:01.840 --> 00:46:03.200 to also look at parental
NOTE Confidence: 0.98168087

00:46:03.200 --> 00:46:05.200 attitudes toward mental illness, especially
NOTE Confidence: 0.98168087

00:46:05.200 --> 00:46:06.100 in this community.
NOTE Confidence: 0.98175174

00:46:06.605 --> 00:46:08.844 So, actually referring back to
NOTE Confidence: 0.98175174

00:46:08.844 --> 00:46:09.964 some of the implicit bias
NOTE Confidence: 0.98175174

00:46:09.964 --> 00:46:10.785 work that,
NOTE Confidence: 0.95811766

00:46:11.085 --> 00:46:12.944 I had done earlier on,
NOTE Confidence: 0.992377

00:46:13.565 --> 00:46:14.864 we're actually approaching,

NOTE Confidence: 0.99102
00:46:15.405 --> 00:46:16.844 this question of implicit bias
NOTE Confidence: 0.99102
00:46:16.844 --> 00:46:18.204 in a different way rather
NOTE Confidence: 0.99102
00:46:18.204 --> 00:46:19.405 than looking at implicit bias
NOTE Confidence: 0.99102
00:46:19.405 --> 00:46:20.844 toward death or life. Instead,
NOTE Confidence: 0.99102
00:46:20.844 --> 00:46:21.900 in this case, looking at
NOTE Confidence: 0.99102
00:46:21.900 --> 00:46:23.980 implicit bias toward mental illness
NOTE Confidence: 0.99102
00:46:23.980 --> 00:46:25.420 relative to physical illness. And
NOTE Confidence: 0.99102
00:46:25.420 --> 00:46:26.380 so there are these mental
NOTE Confidence: 0.99102
00:46:26.380 --> 00:46:26.880 illness
NOTE Confidence: 0.9381556
00:46:27.180 --> 00:46:27.680 IATs,
NOTE Confidence: 0.9931958
00:46:28.059 --> 00:46:28.700 that have been,
NOTE Confidence: 0.90872496
00:46:29.739 --> 00:46:30.239 developed,
NOTE Confidence: 0.96366096
00:46:30.940 --> 00:46:32.460 and using these a mix
NOTE Confidence: 0.96366096
00:46:32.460 --> 00:46:34.380 of implicit and explicit measures,
NOTE Confidence: 0.96366096
00:46:34.380 --> 00:46:35.925 delivering that to the first
NOTE Confidence: 0.96366096

00:46:35.925 --> 00:46:38.025 time to parents of youth
NOTE Confidence: 0.96366096

00:46:38.325 --> 00:46:40.245 to observe correspondence with help
NOTE Confidence: 0.96366096

00:46:40.245 --> 00:46:41.525 seeking behaviors as well as
NOTE Confidence: 0.96366096

00:46:41.525 --> 00:46:42.344 youth outcomes.
NOTE Confidence: 0.9939838

00:46:45.205 --> 00:46:46.645 We also know that apart
NOTE Confidence: 0.9939838

00:46:46.645 --> 00:46:48.565 from physical surroundings, digital and
NOTE Confidence: 0.9939838

00:46:48.565 --> 00:46:50.185 social media has a dominating
NOTE Confidence: 0.9939838

00:46:50.405 --> 00:46:52.020 presence in the lives of
NOTE Confidence: 0.9939838

00:46:52.020 --> 00:46:53.860 youth today. And so some
NOTE Confidence: 0.9939838

00:46:53.860 --> 00:46:55.219 of our initial work shows
NOTE Confidence: 0.9939838

00:46:55.219 --> 00:46:56.660 us that nearly fifty percent
NOTE Confidence: 0.9939838

00:46:56.660 --> 00:46:58.440 of all suicide related disclosures
NOTE Confidence: 0.9939838

00:46:58.580 --> 00:47:00.100 now occur through digital and
NOTE Confidence: 0.9939838

00:47:00.100 --> 00:47:00.920 social media.
NOTE Confidence: 0.97606814

00:47:01.540 --> 00:47:03.219 Meaning wherever we fall in
NOTE Confidence: 0.97606814

00:47:03.219 --> 00:47:04.180 terms of the pluses and

NOTE Confidence: 0.97606814
00:47:04.180 --> 00:47:05.940 minuses of digital and social
NOTE Confidence: 0.97606814
00:47:05.940 --> 00:47:06.675 media use,
NOTE Confidence: 0.99862176
00:47:07.635 --> 00:47:09.094 youth are turning to digital
NOTE Confidence: 0.99862176
00:47:09.235 --> 00:47:10.455 interactions regardless
NOTE Confidence: 0.9907322
00:47:10.915 --> 00:47:11.795 and view it as a
NOTE Confidence: 0.9907322
00:47:11.795 --> 00:47:13.175 viable source of support.
NOTE Confidence: 0.9849139
00:47:13.795 --> 00:47:14.995 And so in future work,
NOTE Confidence: 0.9849139
00:47:14.995 --> 00:47:16.355 we hope to evaluate and
NOTE Confidence: 0.9849139
00:47:16.355 --> 00:47:18.215 improve evidence based and ethical
NOTE Confidence: 0.9685712
00:47:18.515 --> 00:47:19.015 engagement,
NOTE Confidence: 0.97066015
00:47:19.475 --> 00:47:20.215 of support,
NOTE Confidence: 0.98357624
00:47:20.515 --> 00:47:22.295 and support around suicide related
NOTE Confidence: 0.98357624
00:47:22.355 --> 00:47:22.650 disclosures
NOTE Confidence: 0.85982025
00:47:23.849 --> 00:47:26.010 online, whether that's through anonymous
NOTE Confidence: 0.85982025
00:47:26.010 --> 00:47:27.210 forums, peer to peer engagement,
NOTE Confidence: 0.85982025

00:47:27.210 --> 00:47:28.410 or how youth are turning
NOTE Confidence: 0.85982025

00:47:28.410 --> 00:47:29.690 to Gen AI even for
NOTE Confidence: 0.85982025

00:47:29.690 --> 00:47:30.190 support.
NOTE Confidence: 0.95671856

00:47:32.809 --> 00:47:34.036 So as a final step,
NOTE Confidence: 0.95671856

00:47:34.330 --> 00:47:35.710 I wanna touch upon,
NOTE Confidence: 0.99133

00:47:36.089 --> 00:47:37.815 is it's honestly a question
NOTE Confidence: 0.99133

00:47:37.815 --> 00:47:38.614 I I'd like to say
NOTE Confidence: 0.99133

00:47:38.614 --> 00:47:39.435 we ask ourselves
NOTE Confidence: 0.94109833

00:47:39.815 --> 00:47:40.295 often,
NOTE Confidence: 0.98964655

00:47:40.695 --> 00:47:42.135 but there's always room for
NOTE Confidence: 0.98964655

00:47:42.135 --> 00:47:43.035 growth and learning,
NOTE Confidence: 0.96044046

00:47:43.335 --> 00:47:45.195 from others' experience and wisdom.
NOTE Confidence: 0.9703421

00:47:45.815 --> 00:47:47.335 And it's exploring the question
NOTE Confidence: 0.9703421

00:47:47.335 --> 00:47:48.775 of what my team and
NOTE Confidence: 0.9703421

00:47:48.775 --> 00:47:50.795 I as researchers are missing.
NOTE Confidence: 0.9759163

00:47:51.500 --> 00:47:53.339 There's much, I gained from

NOTE Confidence: 0.9759163
00:47:53.339 --> 00:47:54.940 my interactions with youth and
NOTE Confidence: 0.9759163
00:47:54.940 --> 00:47:55.440 families,
NOTE Confidence: 0.98979914
00:47:56.540 --> 00:47:57.920 and and other clinicians,
NOTE Confidence: 0.9083814
00:47:58.859 --> 00:48:00.380 in both research and clinical
NOTE Confidence: 0.9083814
00:48:00.380 --> 00:48:00.880 context.
NOTE Confidence: 0.9995809
00:48:01.739 --> 00:48:02.780 But in terms of the
NOTE Confidence: 0.9995809
00:48:02.780 --> 00:48:03.825 actual perspective
NOTE Confidence: 0.9973926
00:48:04.205 --> 00:48:05.805 of being a teenager, it's
NOTE Confidence: 0.9973926
00:48:05.805 --> 00:48:07.165 been a little while since
NOTE Confidence: 0.9973926
00:48:07.165 --> 00:48:08.525 I was fifteen, sixteen years
NOTE Confidence: 0.9973926
00:48:08.525 --> 00:48:09.025 old.
NOTE Confidence: 0.82210624
00:48:10.045 --> 00:48:10.705 And fortunately,
NOTE Confidence: 0.9677366
00:48:11.325 --> 00:48:12.685 that's not the case for
NOTE Confidence: 0.9677366
00:48:12.685 --> 00:48:14.445 our high school intern, Ria
NOTE Confidence: 0.9677366
00:48:14.445 --> 00:48:14.945 Ahn,
NOTE Confidence: 0.9603599

00:48:15.725 --> 00:48:17.165 who, joined us here at
NOTE Confidence: 0.9603599

00:48:17.165 --> 00:48:18.480 the Child Study Center, who's
NOTE Confidence: 0.9603599

00:48:18.480 --> 00:48:20.000 helping us build, a research
NOTE Confidence: 0.9603599

00:48:20.000 --> 00:48:21.840 community partnership starting with a
NOTE Confidence: 0.9603599

00:48:21.840 --> 00:48:23.520 partnership directly with youth.
NOTE Confidence: 0.9979309

00:48:23.840 --> 00:48:24.719 So we're in the process
NOTE Confidence: 0.9979309

00:48:24.719 --> 00:48:26.080 of building a youth advisory
NOTE Confidence: 0.9979309

00:48:26.080 --> 00:48:26.580 board,
NOTE Confidence: 0.98981273

00:48:26.960 --> 00:48:28.239 where we expect to advertise
NOTE Confidence: 0.98981273

00:48:28.239 --> 00:48:29.619 in the summer for members,
NOTE Confidence: 0.88017786

00:48:30.815 --> 00:48:31.715 likely individuals,
NOTE Confidence: 0.970744

00:48:32.175 --> 00:48:34.175 youth, who have a personal
NOTE Confidence: 0.970744

00:48:34.175 --> 00:48:35.855 connection to suicide, whether that's
NOTE Confidence: 0.970744

00:48:35.855 --> 00:48:36.995 their own lived experience,
NOTE Confidence: 0.97226053

00:48:37.375 --> 00:48:38.755 but or knowing,
NOTE Confidence: 0.9521062

00:48:39.375 --> 00:48:40.495 a loved one or friend

NOTE Confidence: 0.9521062
00:48:40.495 --> 00:48:41.875 who has been affected directly.
NOTE Confidence: 0.9359917
00:48:44.030 --> 00:48:45.310 And so that's hoping we're
NOTE Confidence: 0.9359917
00:48:45.310 --> 00:48:46.270 hoping to launch that in
NOTE Confidence: 0.9359917
00:48:46.270 --> 00:48:47.710 the fall as well as
NOTE Confidence: 0.9359917
00:48:47.710 --> 00:48:48.530 youth navigate,
NOTE Confidence: 0.98684496
00:48:48.910 --> 00:48:50.670 an initiative led also by
NOTE Confidence: 0.98684496
00:48:50.670 --> 00:48:51.950 Ria to make mental health
NOTE Confidence: 0.98684496
00:48:51.950 --> 00:48:53.550 research more accessible to young
NOTE Confidence: 0.98684496
00:48:53.550 --> 00:48:54.050 peers.
NOTE Confidence: 0.897751
00:48:54.989 --> 00:48:56.610 When Ria was doing a
NOTE Confidence: 0.89382046
00:48:57.085 --> 00:48:58.525 a lit search on youth's,
NOTE Confidence: 0.996611
00:48:59.005 --> 00:49:00.844 advisory boards, one thing that
NOTE Confidence: 0.996611
00:49:00.844 --> 00:49:02.125 she observed in terms of
NOTE Confidence: 0.996611
00:49:02.125 --> 00:49:03.265 youth feedback is
NOTE Confidence: 0.98037875
00:49:03.725 --> 00:49:05.085 teens don't feel like they
NOTE Confidence: 0.98037875

00:49:05.085 --> 00:49:06.605 really yes. They can comment
NOTE Confidence: 0.98037875

00:49:06.605 --> 00:49:07.805 on the research that's brought
NOTE Confidence: 0.98037875

00:49:07.805 --> 00:49:08.685 to them in a youth
NOTE Confidence: 0.98037875

00:49:08.685 --> 00:49:10.525 advisory board meeting, but they
NOTE Confidence: 0.98037875

00:49:10.525 --> 00:49:12.050 don't they're not familiar and
NOTE Confidence: 0.98037875

00:49:12.050 --> 00:49:13.030 actively consuming
NOTE Confidence: 0.99152505

00:49:13.410 --> 00:49:14.710 the peer reviewed research,
NOTE Confidence: 0.99804115

00:49:15.090 --> 00:49:16.290 that we many of us
NOTE Confidence: 0.99804115

00:49:16.290 --> 00:49:17.670 researchers take for granted.
NOTE Confidence: 0.99231124

00:49:17.969 --> 00:49:18.690 And so,
NOTE Confidence: 0.9671097

00:49:19.090 --> 00:49:20.770 Ria had this thought of,
NOTE Confidence: 0.9671097

00:49:21.090 --> 00:49:23.410 developing youth navigate. What navigate
NOTE Confidence: 0.9671097

00:49:23.410 --> 00:49:24.770 stands for is escaping me
NOTE Confidence: 0.9671097

00:49:24.770 --> 00:49:25.730 right now, but Ria could
NOTE Confidence: 0.9671097

00:49:25.730 --> 00:49:26.469 tell you.
NOTE Confidence: 0.8203337

00:49:27.605 --> 00:49:28.105 And,

NOTE Confidence: 0.9931045

00:49:28.964 --> 00:49:30.005 but the idea of it

NOTE Confidence: 0.9931045

00:49:30.005 --> 00:49:31.125 is really to make mental

NOTE Confidence: 0.9931045

00:49:31.125 --> 00:49:32.905 health research more accessible,

NOTE Confidence: 0.8816868

00:49:33.605 --> 00:49:34.265 to teens.

NOTE Confidence: 0.9738586

00:49:34.565 --> 00:49:35.844 So by teens and for

NOTE Confidence: 0.9738586

00:49:35.844 --> 00:49:37.525 teens and communicating the science

NOTE Confidence: 0.9738586

00:49:37.525 --> 00:49:39.125 that we and other labs

NOTE Confidence: 0.9738586

00:49:39.125 --> 00:49:40.619 do so that when our

NOTE Confidence: 0.9738586

00:49:40.619 --> 00:49:42.140 youth advisory board members are

NOTE Confidence: 0.9738586

00:49:42.140 --> 00:49:43.739 consulting, they're not only,

NOTE Confidence: 0.9808344

00:49:44.219 --> 00:49:45.420 drawing from their own lived

NOTE Confidence: 0.9808344

00:49:45.420 --> 00:49:45.920 experience,

NOTE Confidence: 0.96582305

00:49:46.539 --> 00:49:47.579 and the experience of their

NOTE Confidence: 0.96582305

00:49:47.579 --> 00:49:49.519 peers, but also their understanding,

NOTE Confidence: 0.99877167

00:49:50.219 --> 00:49:51.039 of the research.

NOTE Confidence: 0.998125

00:49:53.285 --> 00:49:53.785 Finally,
NOTE Confidence: 0.96770996

00:49:54.405 --> 00:49:55.845 this talk really wouldn't be
NOTE Confidence: 0.96770996

00:49:55.845 --> 00:49:57.845 complete without pointing to really
NOTE Confidence: 0.96770996

00:49:57.845 --> 00:49:59.285 my excitement and our lab's
NOTE Confidence: 0.96770996

00:49:59.285 --> 00:50:01.305 excitement about growing research practice
NOTE Confidence: 0.96770996

00:50:01.364 --> 00:50:01.864 partnerships,
NOTE Confidence: 0.9384903

00:50:02.485 --> 00:50:03.605 both within the Yale Child
NOTE Confidence: 0.9384903

00:50:03.605 --> 00:50:04.885 Study Center, Yale School of
NOTE Confidence: 0.9384903

00:50:04.885 --> 00:50:06.300 Medicine through the Center for
NOTE Confidence: 0.9384903

00:50:06.460 --> 00:50:07.820 Brain Mind Health, as well
NOTE Confidence: 0.9384903

00:50:07.820 --> 00:50:09.180 as Yale New Haven Health
NOTE Confidence: 0.9384903

00:50:09.180 --> 00:50:09.680 broadly.
NOTE Confidence: 0.96881133

00:50:11.020 --> 00:50:12.700 And so forgive me. I
NOTE Confidence: 0.96881133

00:50:12.700 --> 00:50:13.580 was telling my team I
NOTE Confidence: 0.96881133

00:50:13.580 --> 00:50:14.380 feel like a little bit
NOTE Confidence: 0.96881133

00:50:14.380 --> 00:50:15.739 of a car salesman today,

NOTE Confidence: 0.96881133
00:50:15.739 --> 00:50:17.739 so excuse the but it
NOTE Confidence: 0.96881133
00:50:17.739 --> 00:50:19.180 it really I think I'm
NOTE Confidence: 0.96881133
00:50:19.180 --> 00:50:20.300 I'm so honored to have
NOTE Confidence: 0.96881133
00:50:20.300 --> 00:50:21.815 been given this time to
NOTE Confidence: 0.96881133
00:50:21.815 --> 00:50:22.855 share some of the work
NOTE Confidence: 0.96881133
00:50:22.855 --> 00:50:23.755 that we've been,
NOTE Confidence: 0.98713773
00:50:24.614 --> 00:50:26.375 trying to launch as, as
NOTE Confidence: 0.98713773
00:50:26.375 --> 00:50:27.575 quickly as we can here
NOTE Confidence: 0.98713773
00:50:27.575 --> 00:50:29.434 at Child Study Center. But
NOTE Confidence: 0.98713773
00:50:29.494 --> 00:50:30.855 in addition to the momentum
NOTE Confidence: 0.98713773
00:50:30.855 --> 00:50:31.994 that we've been building,
NOTE Confidence: 0.95221585
00:50:32.694 --> 00:50:33.974 I really would like to,
NOTE Confidence: 0.9860836
00:50:34.454 --> 00:50:36.250 invite you all to to
NOTE Confidence: 0.9860836
00:50:36.250 --> 00:50:37.530 consider approaching us,
NOTE Confidence: 0.99947494
00:50:38.090 --> 00:50:39.050 because we do have a
NOTE Confidence: 0.99947494

00:50:39.050 --> 00:50:39.950 lot to learn.
NOTE Confidence: 0.99515104

00:50:40.489 --> 00:50:41.690 So whether you have new
NOTE Confidence: 0.99515104

00:50:41.690 --> 00:50:43.290 ideas about risk and protective
NOTE Confidence: 0.99515104

00:50:43.290 --> 00:50:45.050 factors for suicidal youth based
NOTE Confidence: 0.99515104

00:50:45.050 --> 00:50:46.650 on clinical observations or lab
NOTE Confidence: 0.99515104

00:50:46.650 --> 00:50:47.150 findings,
NOTE Confidence: 0.9425201

00:50:47.450 --> 00:50:48.970 we couldn't possibly have all
NOTE Confidence: 0.9425201

00:50:48.970 --> 00:50:49.710 the answers.
NOTE Confidence: 0.9945773

00:50:50.025 --> 00:50:50.984 And there's such a wealth
NOTE Confidence: 0.9945773

00:50:50.984 --> 00:50:51.724 of information,
NOTE Confidence: 0.9793961

00:50:52.344 --> 00:50:53.645 and wisdom and experience,
NOTE Confidence: 0.9228623

00:50:54.025 --> 00:50:55.305 in this room and and
NOTE Confidence: 0.9228623

00:50:55.305 --> 00:50:55.805 virtually.
NOTE Confidence: 0.98843604

00:50:57.224 --> 00:50:58.265 Whether or not you are
NOTE Confidence: 0.98843604

00:50:58.265 --> 00:51:00.025 looking for patient resources, we're
NOTE Confidence: 0.98843604

00:51:00.025 --> 00:51:02.610 also, open and, available to,

NOTE Confidence: 0.98843604
00:51:02.850 --> 00:51:03.890 first of all, kind of,
NOTE Confidence: 0.98843604
00:51:04.210 --> 00:51:05.650 have an exchange around what
NOTE Confidence: 0.98843604
00:51:05.650 --> 00:51:07.670 are the existing resources from,
NOTE Confidence: 0.9757396
00:51:07.970 --> 00:51:09.410 the standpoint of providers at
NOTE Confidence: 0.9757396
00:51:09.410 --> 00:51:10.530 different levels of care,
NOTE Confidence: 0.94532394
00:51:11.170 --> 00:51:13.489 and then, having an exchange
NOTE Confidence: 0.94532394
00:51:13.489 --> 00:51:15.010 about what whether or or
NOTE Confidence: 0.94532394
00:51:15.010 --> 00:51:15.970 ways in which we could
NOTE Confidence: 0.94532394
00:51:15.970 --> 00:51:17.335 work together to come up
NOTE Confidence: 0.94532394
00:51:17.335 --> 00:51:19.355 with additional resources to,
NOTE Confidence: 0.97708195
00:51:19.975 --> 00:51:21.575 to support both families, but
NOTE Confidence: 0.97708195
00:51:21.575 --> 00:51:22.935 also the providers that support
NOTE Confidence: 0.97708195
00:51:22.935 --> 00:51:23.675 those families.
NOTE Confidence: 0.9868169
00:51:24.695 --> 00:51:25.895 And then whether you're interested
NOTE Confidence: 0.9868169
00:51:25.895 --> 00:51:27.575 in delivering new interventions for
NOTE Confidence: 0.9868169

00:51:27.575 --> 00:51:28.715 suicidal youth.
NOTE Confidence: 0.9761136

00:51:29.319 --> 00:51:30.839 Again, as I referenced earlier,
NOTE Confidence: 0.9761136

00:51:30.839 --> 00:51:31.799 this is a very new
NOTE Confidence: 0.9761136

00:51:31.799 --> 00:51:32.839 area for me and my
NOTE Confidence: 0.9761136

00:51:32.839 --> 00:51:34.119 work. I think historically, I
NOTE Confidence: 0.9761136

00:51:34.119 --> 00:51:35.739 didn't identify as an interventionist
NOTE Confidence: 0.9761136

00:51:35.880 --> 00:51:37.319 and still consider myself as
NOTE Confidence: 0.9761136

00:51:37.319 --> 00:51:38.680 having a lot to learn
NOTE Confidence: 0.9761136

00:51:38.680 --> 00:51:40.380 and very much, invite,
NOTE Confidence: 0.9444527

00:51:40.760 --> 00:51:42.440 the expertise again in this
NOTE Confidence: 0.9444527

00:51:42.440 --> 00:51:43.339 room to,
NOTE Confidence: 0.99846673

00:51:44.085 --> 00:51:45.364 to approach and have a
NOTE Confidence: 0.99846673

00:51:45.364 --> 00:51:45.864 conversation.
NOTE Confidence: 0.9942115

00:51:47.605 --> 00:51:48.645 And we're really kind of
NOTE Confidence: 0.9942115

00:51:48.645 --> 00:51:50.325 eager to for help also
NOTE Confidence: 0.9942115

00:51:50.325 --> 00:51:50.985 in collecting,

NOTE Confidence: 0.9916698
00:51:51.525 --> 00:51:52.965 any data driven insights on
NOTE Confidence: 0.9916698
00:51:52.965 --> 00:51:54.485 suicidal youth and their families,
NOTE Confidence: 0.9916698
00:51:54.485 --> 00:51:56.085 just referencing some of the
NOTE Confidence: 0.9916698
00:51:56.085 --> 00:51:57.445 time series tracking work that
NOTE Confidence: 0.9916698
00:51:57.445 --> 00:51:58.565 we're really eager to get
NOTE Confidence: 0.9916698
00:51:58.565 --> 00:51:59.340 off the ground.
NOTE Confidence: 0.96337795
00:52:00.140 --> 00:52:01.340 So this is my last
NOTE Confidence: 0.96337795
00:52:01.340 --> 00:52:02.160 car salesman,
NOTE Confidence: 0.94677335
00:52:03.260 --> 00:52:04.780 slide, but just the point
NOTE Confidence: 0.94677335
00:52:04.780 --> 00:52:05.280 being,
NOTE Confidence: 0.9799646
00:52:05.739 --> 00:52:07.100 let's talk our doors open,
NOTE Confidence: 0.9799646
00:52:07.100 --> 00:52:07.980 and we are at three
NOTE Confidence: 0.9799646
00:52:07.980 --> 00:52:09.520 fifty, George Street.
NOTE Confidence: 0.9759872
00:52:10.380 --> 00:52:11.440 So oh,
NOTE Confidence: 0.9032717
00:52:12.860 --> 00:52:14.620 promise two, three more slides.
NOTE Confidence: 0.9032717

00:52:14.620 --> 00:52:15.974 So in in conclusion,
NOTE Confidence: 0.9957619

00:52:17.954 --> 00:52:19.395 you know, closing on much
NOTE Confidence: 0.9957619

00:52:19.395 --> 00:52:20.994 of what motivates me surrounding
NOTE Confidence: 0.9957619

00:52:20.994 --> 00:52:21.734 this work,
NOTE Confidence: 0.9817939

00:52:22.355 --> 00:52:23.094 as intractable,
NOTE Confidence: 0.9837982

00:52:23.795 --> 00:52:25.155 as an outcome as suicide
NOTE Confidence: 0.9837982

00:52:25.155 --> 00:52:26.194 may seem at times, and
NOTE Confidence: 0.9837982

00:52:26.194 --> 00:52:27.795 this is the constructive optimist
NOTE Confidence: 0.9837982

00:52:27.795 --> 00:52:29.015 in me coming out again,
NOTE Confidence: 0.9491146

00:52:29.700 --> 00:52:31.400 is that suicide is preventable.
NOTE Confidence: 0.96806103

00:52:31.780 --> 00:52:32.660 And that this is a
NOTE Confidence: 0.96806103

00:52:32.660 --> 00:52:34.280 vision shared by those with
NOTE Confidence: 0.96806103

00:52:34.420 --> 00:52:35.239 lived experience,
NOTE Confidence: 0.98680747

00:52:35.940 --> 00:52:37.540 where the same teenage boy
NOTE Confidence: 0.98680747

00:52:37.540 --> 00:52:39.080 whose drawing I showed earlier
NOTE Confidence: 0.962996

00:52:39.859 --> 00:52:41.219 created for us I was

NOTE Confidence: 0.962996
00:52:41.219 --> 00:52:42.820 really honored and grateful that
NOTE Confidence: 0.962996
00:52:42.820 --> 00:52:43.700 he created for us a
NOTE Confidence: 0.962996
00:52:43.700 --> 00:52:45.105 contrasting vision of hope
NOTE Confidence: 0.99060965
00:52:45.825 --> 00:52:47.105 as well. He found the
NOTE Confidence: 0.99060965
00:52:47.105 --> 00:52:48.145 weather to be a very
NOTE Confidence: 0.99060965
00:52:48.145 --> 00:52:50.065 powerful metaphor for him, in
NOTE Confidence: 0.99060965
00:52:50.065 --> 00:52:51.744 which he described as reminding
NOTE Confidence: 0.99060965
00:52:51.744 --> 00:52:52.785 him that no storm can
NOTE Confidence: 0.99060965
00:52:52.785 --> 00:52:53.984 last forever and that the
NOTE Confidence: 0.99060965
00:52:53.984 --> 00:52:55.025 sun always has to come
NOTE Confidence: 0.99060965
00:52:55.025 --> 00:52:56.385 out. And it reminds him
NOTE Confidence: 0.99060965
00:52:56.385 --> 00:52:57.744 of the inevitable change that
NOTE Confidence: 0.99060965
00:52:57.744 --> 00:52:58.965 the future can hold.
NOTE Confidence: 0.98305243
00:53:00.030 --> 00:53:01.230 And even if it's raining
NOTE Confidence: 0.98305243
00:53:01.230 --> 00:53:02.190 now, I have hope that
NOTE Confidence: 0.98305243

00:53:02.190 --> 00:53:03.469 my future will be beautiful
NOTE Confidence: 0.98305243

00:53:03.469 --> 00:53:05.150 rather than scary. So it's
NOTE Confidence: 0.98305243

00:53:05.150 --> 00:53:06.850 that lived experience and perspective,
NOTE Confidence: 0.9837477

00:53:07.310 --> 00:53:08.670 that serves as the foundation
NOTE Confidence: 0.9837477

00:53:08.670 --> 00:53:09.870 of our lab's work now
NOTE Confidence: 0.9837477

00:53:09.870 --> 00:53:10.850 and moving forward.
NOTE Confidence: 0.9391238

00:53:21.444 --> 00:53:23.385 Fantastic questions for doctor Shah.
NOTE Confidence: 0.9917573

00:53:28.030 --> 00:53:29.170 Christine, that was impressive.
NOTE Confidence: 0.9711373

00:53:30.510 --> 00:53:31.470 I'm curious. I was struck
NOTE Confidence: 0.9711373

00:53:31.470 --> 00:53:32.190 by one of the things
NOTE Confidence: 0.9711373

00:53:32.190 --> 00:53:33.070 you mentioned really early in
NOTE Confidence: 0.9711373

00:53:33.070 --> 00:53:34.670 your talk that that little
NOTE Confidence: 0.9711373

00:53:34.670 --> 00:53:36.530 has been learned about predicting.
NOTE Confidence: 0.9090731

00:53:36.830 --> 00:53:38.190 And I was curious why
NOTE Confidence: 0.9090731

00:53:38.190 --> 00:53:39.890 you think that is. Like,
NOTE Confidence: 0.9090731

00:53:39.950 --> 00:53:40.450 are

NOTE Confidence: 0.9521697
00:53:40.965 --> 00:53:41.765 is it that just the
NOTE Confidence: 0.9521697
00:53:41.765 --> 00:53:42.985 complexity of the problem?
NOTE Confidence: 0.96953815
00:53:43.285 --> 00:53:44.405 Is it that it's not
NOTE Confidence: 0.96953815
00:53:44.405 --> 00:53:45.305 the same causes
NOTE Confidence: 0.95772135
00:53:46.405 --> 00:53:47.305 over time?
NOTE Confidence: 0.921768
00:53:47.925 --> 00:53:49.125 Why I mean, like, there's
NOTE Confidence: 0.921768
00:53:49.125 --> 00:53:50.565 so many, like, so many
NOTE Confidence: 0.921768
00:53:50.565 --> 00:53:51.685 tools to apply now in
NOTE Confidence: 0.921768
00:53:51.685 --> 00:53:53.125 this genetic understanding that I
NOTE Confidence: 0.921768
00:53:53.125 --> 00:53:54.805 understand. Just curious about why
NOTE Confidence: 0.921768
00:53:54.805 --> 00:53:56.039 you think that's the situation.
NOTE Confidence: 0.99848825
00:53:56.579 --> 00:53:57.640 Yeah. Good question.
NOTE Confidence: 0.961872
00:53:58.019 --> 00:53:59.779 I'm gonna give a crude
NOTE Confidence: 0.961872
00:53:59.779 --> 00:54:00.819 answer and say I think
NOTE Confidence: 0.961872
00:54:00.819 --> 00:54:01.799 we've been underestimating
NOTE Confidence: 0.95645636

00:54:02.099 --> 00:54:03.779 how complex and multi determined

NOTE Confidence: 0.95645636

00:54:03.779 --> 00:54:05.219 suicide is. And I think

NOTE Confidence: 0.95645636

00:54:05.219 --> 00:54:06.599 it's it's crude because,

NOTE Confidence: 0.9956931

00:54:07.539 --> 00:54:08.019 I also

NOTE Confidence: 0.9787873

00:54:08.625 --> 00:54:10.065 we have so many more,

NOTE Confidence: 0.9465413

00:54:10.625 --> 00:54:12.165 even computational advances,

NOTE Confidence: 0.98925704

00:54:12.864 --> 00:54:13.985 at our disposal now that

NOTE Confidence: 0.98925704

00:54:13.985 --> 00:54:15.185 we didn't have fifty years

NOTE Confidence: 0.98925704

00:54:15.185 --> 00:54:16.245 ago. So I'm certainly,

NOTE Confidence: 0.9474885

00:54:16.864 --> 00:54:18.305 not suggesting that it was

NOTE Confidence: 0.9474885

00:54:18.305 --> 00:54:19.844 just poor selection of,

NOTE Confidence: 0.94964385

00:54:20.145 --> 00:54:21.505 predictors or I I think

NOTE Confidence: 0.94964385

00:54:21.505 --> 00:54:23.344 that there's been science evolves,

NOTE Confidence: 0.94964385

00:54:23.344 --> 00:54:24.570 and I think, with that

NOTE Confidence: 0.94964385

00:54:24.570 --> 00:54:25.770 comes new tools that we

NOTE Confidence: 0.94964385

00:54:25.770 --> 00:54:26.430 can use,

NOTE Confidence: 0.76670325
00:54:26.890 --> 00:54:27.370 now.
NOTE Confidence: 0.96517074
00:54:27.930 --> 00:54:28.810 And then kind of the
NOTE Confidence: 0.96517074
00:54:28.810 --> 00:54:30.570 other example really being we,
NOTE Confidence: 0.96517074
00:54:30.570 --> 00:54:31.690 for a long time, made
NOTE Confidence: 0.96517074
00:54:31.690 --> 00:54:32.830 that assumption that,
NOTE Confidence: 0.996294
00:54:33.530 --> 00:54:34.910 there might be certain circumstances
NOTE Confidence: 0.996294
00:54:35.050 --> 00:54:36.510 in which asking for subjective
NOTE Confidence: 0.996294
00:54:36.650 --> 00:54:37.850 impression and recall of an
NOTE Confidence: 0.996294
00:54:37.850 --> 00:54:39.210 extended period of time is
NOTE Confidence: 0.996294
00:54:39.210 --> 00:54:39.710 appropriate.
NOTE Confidence: 0.9714768
00:54:40.575 --> 00:54:42.275 But for a a transient
NOTE Confidence: 0.9714768
00:54:42.415 --> 00:54:44.094 outcome such as suicidal thoughts,
NOTE Confidence: 0.9714768
00:54:44.335 --> 00:54:45.455 that does have some short
NOTE Confidence: 0.9714768
00:54:45.455 --> 00:54:47.555 term predictor predictors as well,
NOTE Confidence: 0.9714768
00:54:47.695 --> 00:54:48.974 we may have to actually
NOTE Confidence: 0.9714768

00:54:48.974 --> 00:54:50.575 increase the temporal resolution with

NOTE Confidence: 0.9714768

00:54:50.575 --> 00:54:51.474 which we're observing

NOTE Confidence: 0.84998006

00:54:51.775 --> 00:54:52.435 this outcome.

NOTE Confidence: 0.845156

00:54:55.230 --> 00:54:56.910 Hi. I'm Laurie Cardone. I'm

NOTE Confidence: 0.845156

00:54:56.910 --> 00:54:57.410 psychologist

NOTE Confidence: 0.98664933

00:54:58.030 --> 00:55:00.030 on our inpatient psychiatric unit

NOTE Confidence: 0.98664933

00:55:00.030 --> 00:55:01.469 for really little kids and

NOTE Confidence: 0.98664933

00:55:01.469 --> 00:55:03.730 also on pediatric consultation liaison.

NOTE Confidence: 0.97998047

00:55:04.270 --> 00:55:06.290 We see really young children

NOTE Confidence: 0.97998047

00:55:06.350 --> 00:55:06.850 have,

NOTE Confidence: 0.9089161

00:55:07.785 --> 00:55:08.525 an immediate,

NOTE Confidence: 0.9635922

00:55:08.905 --> 00:55:11.085 precipitant be a shaming

NOTE Confidence: 0.99895334

00:55:11.785 --> 00:55:13.005 experience in school.

NOTE Confidence: 0.9635033

00:55:13.625 --> 00:55:14.744 So I'm wondering what thoughts

NOTE Confidence: 0.9635033

00:55:14.744 --> 00:55:15.964 you have about extending

NOTE Confidence: 0.99977016

00:55:16.425 --> 00:55:17.805 your wonderful projects

NOTE Confidence: 0.98689765

00:55:18.185 --> 00:55:20.185 and partnering with local school

NOTE Confidence: 0.98689765

00:55:20.185 --> 00:55:21.545 districts. What what your thoughts

NOTE Confidence: 0.98689765

00:55:21.545 --> 00:55:22.045 are

NOTE Confidence: 0.99970603

00:55:22.350 --> 00:55:23.410 about the applicability

NOTE Confidence: 0.9930105

00:55:24.190 --> 00:55:25.489 of any of your projects

NOTE Confidence: 0.9930105

00:55:25.710 --> 00:55:26.110 to,

NOTE Confidence: 0.96243685

00:55:26.670 --> 00:55:27.489 public schools?

NOTE Confidence: 0.9994394

00:55:28.510 --> 00:55:29.810 I would absolutely

NOTE Confidence: 0.9885542

00:55:30.350 --> 00:55:30.850 love,

NOTE Confidence: 0.9989844

00:55:31.230 --> 00:55:32.910 that opportunity. In fact, when

NOTE Confidence: 0.9989844

00:55:32.910 --> 00:55:33.870 I first joined,

NOTE Confidence: 0.9933985

00:55:34.190 --> 00:55:35.710 on faculty at Columbia ten

NOTE Confidence: 0.9933985

00:55:35.710 --> 00:55:37.150 years ago, that was one

NOTE Confidence: 0.9933985

00:55:37.150 --> 00:55:38.555 of the first IRB protocols

NOTE Confidence: 0.9933985

00:55:38.555 --> 00:55:40.075 that I wrote, which was

NOTE Confidence: 0.9933985

00:55:40.075 --> 00:55:41.195 to the Department of Ed,
NOTE Confidence: 0.9039698

00:55:42.555 --> 00:55:43.055 IRB,
NOTE Confidence: 0.9397849

00:55:43.515 --> 00:55:44.875 to propose, you know, a
NOTE Confidence: 0.9397849

00:55:44.875 --> 00:55:46.735 suicide screening study. And,
NOTE Confidence: 0.9524325

00:55:47.995 --> 00:55:49.275 I understand they have their
NOTE Confidence: 0.9524325

00:55:49.275 --> 00:55:50.715 reasons, but we basically, after
NOTE Confidence: 0.9524325

00:55:50.715 --> 00:55:52.200 putting in a a forty
NOTE Confidence: 0.9524325

00:55:52.200 --> 00:55:53.960 page IRB proposal, got a
NOTE Confidence: 0.9524325

00:55:53.960 --> 00:55:55.400 one liner suicide is not
NOTE Confidence: 0.9524325

00:55:55.400 --> 00:55:57.340 an appropriate topic of study.
NOTE Confidence: 0.9524325

00:55:57.480 --> 00:55:59.000 So and there's there's history
NOTE Confidence: 0.9524325

00:55:59.000 --> 00:56:00.520 around that depending on school
NOTE Confidence: 0.9524325

00:56:00.520 --> 00:56:01.420 districts. And,
NOTE Confidence: 0.9927637

00:56:02.119 --> 00:56:03.480 and so, you know, I
NOTE Confidence: 0.9927637

00:56:03.480 --> 00:56:04.520 I think it was just
NOTE Confidence: 0.9927637

00:56:04.520 --> 00:56:05.880 not the time, at that

NOTE Confidence: 0.9927637
00:56:05.880 --> 00:56:06.380 point.
NOTE Confidence: 0.9673529
00:56:07.105 --> 00:56:07.985 And it was that that
NOTE Confidence: 0.9673529
00:56:07.985 --> 00:56:09.025 was a hard thing to
NOTE Confidence: 0.9673529
00:56:09.025 --> 00:56:10.705 accept, especially having been at
NOTE Confidence: 0.9673529
00:56:10.705 --> 00:56:11.985 the School of Education at
NOTE Confidence: 0.9673529
00:56:11.985 --> 00:56:13.265 Columbia, which does have a
NOTE Confidence: 0.9673529
00:56:13.265 --> 00:56:14.705 lot of ties to the
NOTE Confidence: 0.9673529
00:56:14.705 --> 00:56:16.545 school system. So I am
NOTE Confidence: 0.9673529
00:56:16.545 --> 00:56:18.065 very much eager to,
NOTE Confidence: 0.99651873
00:56:18.945 --> 00:56:20.145 to to try again,
NOTE Confidence: 0.9446944
00:56:20.465 --> 00:56:21.844 I think here in Connecticut.
NOTE Confidence: 0.9463835
00:56:23.880 --> 00:56:25.000 We have a question on
NOTE Confidence: 0.9463835
00:56:25.000 --> 00:56:26.200 Zoom. Chin, I'm not sure
NOTE Confidence: 0.9463835
00:56:26.200 --> 00:56:27.420 if you're able to unmute
NOTE Confidence: 0.9843033
00:56:28.119 --> 00:56:29.260 to ask your own question.
NOTE Confidence: 0.92097116

00:56:30.680 --> 00:56:31.180 Sure.
NOTE Confidence: 0.99946636
00:56:31.880 --> 00:56:32.380 So
NOTE Confidence: 0.99708825
00:56:32.839 --> 00:56:34.780 great talk. Happy to collaborate.
NOTE Confidence: 0.9411318
00:56:35.775 --> 00:56:37.135 I'm curious to hear about
NOTE Confidence: 0.9411318
00:56:37.135 --> 00:56:38.915 the study in facial microexpressions.
NOTE Confidence: 0.9946569
00:56:39.855 --> 00:56:41.875 Like, were you referring to
NOTE Confidence: 0.98887974
00:56:42.335 --> 00:56:43.775 the Duchenne smile? Were there
NOTE Confidence: 0.98887974
00:56:43.775 --> 00:56:44.895 others? So I'm just curious
NOTE Confidence: 0.98887974
00:56:44.895 --> 00:56:45.934 to hear more about that
NOTE Confidence: 0.98887974
00:56:45.934 --> 00:56:46.994 study. Thank you.
NOTE Confidence: 0.98522186
00:56:47.940 --> 00:56:49.859 Yeah. So that study is,
NOTE Confidence: 0.85052013
00:56:50.820 --> 00:56:53.000 still the the data itself,
NOTE Confidence: 0.99692684
00:56:53.380 --> 00:56:54.820 because we're looking at facial
NOTE Confidence: 0.99692684
00:56:54.820 --> 00:56:56.280 actions frame by frame,
NOTE Confidence: 0.9664373
00:56:57.219 --> 00:56:58.420 is has been a bit
NOTE Confidence: 0.9664373
00:56:58.420 --> 00:56:59.859 of a grueling process in,

NOTE Confidence: 0.9664373

00:57:00.099 --> 00:57:00.680 the preprocessing

NOTE Confidence: 0.946883

00:57:00.980 --> 00:57:02.175 of the data. But we're,

NOTE Confidence: 0.9435361

00:57:02.895 --> 00:57:04.094 we're rushing to do that,

NOTE Confidence: 0.9435361

00:57:04.094 --> 00:57:04.594 unfortunately,

NOTE Confidence: 0.9776899

00:57:04.975 --> 00:57:06.415 again, through Ellen's help,

NOTE Confidence: 0.9976681

00:57:06.735 --> 00:57:08.575 expediting that through leveraging AI

NOTE Confidence: 0.9976681

00:57:08.575 --> 00:57:10.755 tools to automate that process.

NOTE Confidence: 0.92643017

00:57:11.135 --> 00:57:12.515 But going to,

NOTE Confidence: 0.9925937

00:57:13.775 --> 00:57:15.309 I appreciate you just giving

NOTE Confidence: 0.9925937

00:57:15.309 --> 00:57:16.750 the opportunity to elaborate more

NOTE Confidence: 0.9925937

00:57:16.750 --> 00:57:17.549 on that because there are

NOTE Confidence: 0.9925937

00:57:17.549 --> 00:57:18.990 also some key questions that

NOTE Confidence: 0.9925937

00:57:18.990 --> 00:57:20.430 are on our minds as

NOTE Confidence: 0.9925937

00:57:20.430 --> 00:57:20.930 we

NOTE Confidence: 0.9836967

00:57:21.309 --> 00:57:22.750 approach this type of work.

NOTE Confidence: 0.9836967

00:57:23.069 --> 00:57:24.430 So facial action and the
NOTE Confidence: 0.9836967

00:57:24.430 --> 00:57:25.630 idea of a Duchenne smile.
NOTE Confidence: 0.9836967

00:57:25.630 --> 00:57:27.534 Even within affective science, there
NOTE Confidence: 0.9836967

00:57:27.534 --> 00:57:28.535 are debates as to what
NOTE Confidence: 0.9836967

00:57:28.535 --> 00:57:30.055 exactly a Duchenne smile even
NOTE Confidence: 0.9836967

00:57:30.055 --> 00:57:32.315 means within the same cultural
NOTE Confidence: 0.9836967

00:57:32.454 --> 00:57:32.954 context.
NOTE Confidence: 0.8585402

00:57:33.654 --> 00:57:34.775 Even then if you look
NOTE Confidence: 0.8585402

00:57:34.775 --> 00:57:36.615 at cross culturally and, as
NOTE Confidence: 0.8585402

00:57:36.615 --> 00:57:38.055 you as you change different,
NOTE Confidence: 0.95188844

00:57:39.174 --> 00:57:40.875 cultural contexts and situations,
NOTE Confidence: 0.99536246

00:57:41.730 --> 00:57:42.850 a smile can mean lots
NOTE Confidence: 0.99536246

00:57:42.850 --> 00:57:44.210 of different things. And that
NOTE Confidence: 0.99536246

00:57:44.210 --> 00:57:45.490 is something that we're keeping
NOTE Confidence: 0.99536246

00:57:45.490 --> 00:57:46.230 in mind.
NOTE Confidence: 0.94008607

00:57:47.250 --> 00:57:48.210 Right now, I think a

NOTE Confidence: 0.94008607
00:57:48.210 --> 00:57:49.430 lot of it is,
NOTE Confidence: 0.99952805
00:57:50.050 --> 00:57:50.550 exploring
NOTE Confidence: 0.93361014
00:57:50.930 --> 00:57:51.830 even the feasibility.
NOTE Confidence: 0.96626467
00:57:52.530 --> 00:57:53.030 But,
NOTE Confidence: 0.9794984
00:57:53.970 --> 00:57:55.275 I I I don't. I
NOTE Confidence: 0.9794984
00:57:55.275 --> 00:57:56.174 was just telling,
NOTE Confidence: 0.99439454
00:57:56.555 --> 00:57:57.914 our our lab that,
NOTE Confidence: 0.99902517
00:57:58.315 --> 00:57:59.214 I think there's
NOTE Confidence: 0.99030936
00:57:59.755 --> 00:58:00.875 caution to put out there
NOTE Confidence: 0.99030936
00:58:00.875 --> 00:58:01.914 as well. We don't want
NOTE Confidence: 0.99030936
00:58:01.914 --> 00:58:02.954 this to just be the
NOTE Confidence: 0.99030936
00:58:02.954 --> 00:58:04.474 next shiny object and get
NOTE Confidence: 0.99030936
00:58:04.474 --> 00:58:05.515 excited about it and then
NOTE Confidence: 0.99030936
00:58:05.515 --> 00:58:06.875 realize later on, oh, wait
NOTE Confidence: 0.99030936
00:58:06.875 --> 00:58:08.155 a second. We should have
NOTE Confidence: 0.99030936

00:58:08.155 --> 00:58:09.275 probably trained this on a
NOTE Confidence: 0.99030936

00:58:09.275 --> 00:58:10.410 more diverse set of
NOTE Confidence: 0.9740663

00:58:10.890 --> 00:58:12.510 stimuli, or we should have
NOTE Confidence: 0.9740663

00:58:12.650 --> 00:58:14.730 checked the biases of expert,
NOTE Confidence: 0.9740663

00:58:15.049 --> 00:58:16.329 reviewers who are providing the
NOTE Confidence: 0.9740663

00:58:16.329 --> 00:58:17.049 ground truth,
NOTE Confidence: 0.99652815

00:58:17.609 --> 00:58:18.970 against which we're we're we're
NOTE Confidence: 0.99652815

00:58:18.970 --> 00:58:20.109 training the algorithms.
NOTE Confidence: 0.9710851

00:58:21.049 --> 00:58:21.549 And,
NOTE Confidence: 0.9795882

00:58:22.329 --> 00:58:23.530 and so that's that's something
NOTE Confidence: 0.9795882

00:58:23.530 --> 00:58:24.890 that we're keeping in mind,
NOTE Confidence: 0.9795882

00:58:25.130 --> 00:58:26.025 as well as we approach
NOTE Confidence: 0.9992898

00:58:29.065 --> 00:58:30.025 this. Thank you very much
NOTE Confidence: 0.9992898

00:58:30.025 --> 00:58:31.385 for your talk. My question
NOTE Confidence: 0.9992898

00:58:31.385 --> 00:58:33.164 is about your project that
NOTE Confidence: 0.93358636

00:58:33.545 --> 00:58:35.625 looked at facial expressions of

NOTE Confidence: 0.93358636

00:58:35.625 --> 00:58:37.225 providers who were assessing Yeah.

NOTE Confidence: 0.93358636

00:58:37.305 --> 00:58:38.580 I'm sure you say. Did

NOTE Confidence: 0.93358636

00:58:38.580 --> 00:58:40.260 you which had remarkable AUC

NOTE Confidence: 0.93358636

00:58:40.260 --> 00:58:42.260 scores. Did you compare those

NOTE Confidence: 0.93358636

00:58:42.260 --> 00:58:42.760 expressions

NOTE Confidence: 0.9445363

00:58:43.060 --> 00:58:43.560 against,

NOTE Confidence: 0.96889234

00:58:44.580 --> 00:58:46.500 provider assessment of suicide, or

NOTE Confidence: 0.96889234

00:58:46.500 --> 00:58:47.720 is that something you're considering

NOTE Confidence: 0.96889234

00:58:47.780 --> 00:58:49.560 doing? That's a good question.

NOTE Confidence: 0.96178895

00:58:50.195 --> 00:58:51.475 Thanks for asking that, Uche.

NOTE Confidence: 0.96178895

00:58:51.475 --> 00:58:52.994 I don't think we have

NOTE Confidence: 0.96178895

00:58:52.994 --> 00:58:54.855 compared it with clinician report.

NOTE Confidence: 0.96178895

00:58:54.994 --> 00:58:56.035 And I well and I

NOTE Confidence: 0.96178895

00:58:56.035 --> 00:58:57.395 should say these weren't clinicians.

NOTE Confidence: 0.96178895

00:58:57.395 --> 00:58:58.915 These were masters level and

NOTE Confidence: 0.96178895

00:58:58.915 --> 00:59:01.015 doctoral level clinical psychology trainees.

NOTE Confidence: 0.96513057

00:59:02.275 --> 00:59:02.775 And

NOTE Confidence: 0.9948372

00:59:03.640 --> 00:59:04.600 I don't think we had

NOTE Confidence: 0.9948372

00:59:04.600 --> 00:59:06.280 them actually provide some sort

NOTE Confidence: 0.9948372

00:59:06.280 --> 00:59:07.500 of subjective impression.

NOTE Confidence: 0.97518736

00:59:07.880 --> 00:59:09.160 In other studies where we

NOTE Confidence: 0.97518736

00:59:09.160 --> 00:59:10.380 have collected clinician,

NOTE Confidence: 0.9610549

00:59:10.920 --> 00:59:11.420 report,

NOTE Confidence: 0.9443537

00:59:13.720 --> 00:59:15.895 we've seen that when we're

NOTE Confidence: 0.9443537

00:59:15.895 --> 00:59:17.655 asking clinicians the likelihood of

NOTE Confidence: 0.9443537

00:59:17.655 --> 00:59:18.535 attempt of their,

NOTE Confidence: 0.9842914

00:59:18.935 --> 00:59:20.315 their suicidal patient,

NOTE Confidence: 0.9728525

00:59:20.615 --> 00:59:22.295 it's it's a coin toss,

NOTE Confidence: 0.96966445

00:59:22.615 --> 00:59:23.755 the the the accuracy,

NOTE Confidence: 0.9484793

00:59:24.295 --> 00:59:25.995 of those ratings, which is,

NOTE Confidence: 0.9484793

00:59:26.055 --> 00:59:27.255 I wanna be clear, not

NOTE Confidence: 0.9484793
00:59:27.255 --> 00:59:28.775 a a story, I think,
NOTE Confidence: 0.9484793
00:59:28.775 --> 00:59:29.275 about
NOTE Confidence: 0.9885773
00:59:30.890 --> 00:59:32.570 the the failure of clinicians
NOTE Confidence: 0.9885773
00:59:32.570 --> 00:59:33.930 or health care professionals. I
NOTE Confidence: 0.9885773
00:59:33.930 --> 00:59:34.970 think it speaks more to
NOTE Confidence: 0.9885773
00:59:34.970 --> 00:59:36.810 the complexity of suicide and
NOTE Confidence: 0.9885773
00:59:36.810 --> 00:59:37.850 the fact that clinicians are
NOTE Confidence: 0.9885773
00:59:37.850 --> 00:59:38.810 trying to make the best
NOTE Confidence: 0.9885773
00:59:38.810 --> 00:59:40.490 decisions as they can with
NOTE Confidence: 0.9885773
00:59:40.490 --> 00:59:42.030 the data that's available.
NOTE Confidence: 0.736694
00:59:42.490 --> 00:59:42.990 Right.
NOTE Confidence: 0.9588758
00:59:43.610 --> 00:59:44.110 Yeah.
NOTE Confidence: 0.95485497
00:59:45.165 --> 00:59:46.125 It's remarkable that you can
NOTE Confidence: 0.95485497
00:59:46.125 --> 00:59:47.325 have that as something that
NOTE Confidence: 0.95485497
00:59:47.325 --> 00:59:48.845 actually also helps your own
NOTE Confidence: 0.95485497

00:59:48.845 --> 00:59:50.065 assessment as a clinician.
NOTE Confidence: 0.94870085

00:59:50.365 --> 00:59:51.805 If that's something that improves
NOTE Confidence: 0.94870085

00:59:51.805 --> 00:59:53.005 your objective, you know, the
NOTE Confidence: 0.94870085

00:59:53.005 --> 00:59:54.525 confidence in your assessment I
NOTE Confidence: 0.94870085

00:59:54.525 --> 00:59:55.745 think you're following objective.
NOTE Confidence: 0.9723495

00:59:56.205 --> 00:59:56.705 Exactly.
NOTE Confidence: 0.9653768

00:59:57.325 --> 00:59:58.845 You're following Ilana's train of
NOTE Confidence: 0.9653768

00:59:58.845 --> 01:00:00.450 thought with, I think, probably
NOTE Confidence: 0.9653768

01:00:00.450 --> 01:00:01.410 where she's going with her
NOTE Confidence: 0.9653768

01:00:01.410 --> 01:00:03.170 research tied to this. So
NOTE Confidence: 0.9653768

01:00:03.170 --> 01:00:04.290 just one last point to
NOTE Confidence: 0.9653768

01:00:04.290 --> 01:00:05.730 make. In keeping with the
NOTE Confidence: 0.9653768

01:00:05.730 --> 01:00:07.350 theme of showcasing fantastic,
NOTE Confidence: 0.8882628

01:00:08.450 --> 01:00:09.730 expertise and science here in
NOTE Confidence: 0.8882628

01:00:09.730 --> 01:00:10.850 the Charles Study Center, next
NOTE Confidence: 0.8882628

01:00:10.850 --> 01:00:11.650 week, we will have our

NOTE Confidence: 0.8882628

01:00:11.650 --> 01:00:12.555 t thirty two,

NOTE Confidence: 0.9124514

01:00:13.035 --> 01:00:14.954 trainees presenting, Elia, Ghar and

NOTE Confidence: 0.9124514

01:00:14.954 --> 01:00:15.994 Dan Doyle. So please do

NOTE Confidence: 0.9124514

01:00:15.994 --> 01:00:17.434 join us for that. And

NOTE Confidence: 0.9124514

01:00:17.434 --> 01:00:18.474 just thank you once again,

NOTE Confidence: 0.9124514

01:00:18.474 --> 01:00:20.095 Christine, for a fantastic presentation.