

WEBVTT

NOTE duration: "01:37:46.448"

NOTE Confidence: 0.6098633

00:00:00.080 --> 00:00:00.580 Everyone?

NOTE Confidence: 0.99469864

00:00:01.520 --> 00:00:02.720 Everyone can hear okay in

NOTE Confidence: 0.99469864

00:00:02.720 --> 00:00:03.300 the back?

NOTE Confidence: 0.9885559

00:00:04.000 --> 00:00:06.000 Okay. Perfect. It's better than

NOTE Confidence: 0.9885559

00:00:06.000 --> 00:00:06.980 a Zoom call.

NOTE Confidence: 0.96432215

00:00:08.480 --> 00:00:09.940 So I just wanna thank

NOTE Confidence: 0.96432215

00:00:10.160 --> 00:00:11.440 every one of you who's

NOTE Confidence: 0.96432215

00:00:11.440 --> 00:00:13.039 come in the audience, many

NOTE Confidence: 0.96432215

00:00:13.039 --> 00:00:14.400 of whom we all know

NOTE Confidence: 0.96432215

00:00:14.400 --> 00:00:15.219 quite well.

NOTE Confidence: 0.9915132

00:00:15.875 --> 00:00:17.954 And it's always wonderful when

NOTE Confidence: 0.9915132

00:00:17.954 --> 00:00:19.634 people show up to support

NOTE Confidence: 0.9915132

00:00:19.634 --> 00:00:21.154 each other. And many of

NOTE Confidence: 0.9915132

00:00:21.154 --> 00:00:22.595 you have had very different

NOTE Confidence: 0.9915132

00:00:22.595 --> 00:00:23.095 journeys
NOTE Confidence: 0.9987793
00:00:23.715 --> 00:00:24.375 with us.
NOTE Confidence: 0.9993164
00:00:24.914 --> 00:00:26.035 We'll have time at the
NOTE Confidence: 0.9993164
00:00:26.035 --> 00:00:27.814 end for people to share,
NOTE Confidence: 0.98095703
00:00:28.440 --> 00:00:29.980 ask questions as well.
NOTE Confidence: 0.95925903
00:00:30.840 --> 00:00:32.280 You know, and tonight, I
NOTE Confidence: 0.95925903
00:00:32.280 --> 00:00:33.000 I think a lot of
NOTE Confidence: 0.95925903
00:00:33.000 --> 00:00:33.880 it is a night of
NOTE Confidence: 0.95925903
00:00:33.880 --> 00:00:34.380 celebration,
NOTE Confidence: 0.9988861
00:00:35.479 --> 00:00:36.840 for all of the things
NOTE Confidence: 0.9988861
00:00:36.840 --> 00:00:38.280 that have changed from the
NOTE Confidence: 0.9988861
00:00:38.280 --> 00:00:39.479 time that I was in
NOTE Confidence: 0.9988861
00:00:39.479 --> 00:00:39.979 training.
NOTE Confidence: 0.99316406
00:00:40.360 --> 00:00:41.400 I tell people all the
NOTE Confidence: 0.99316406
00:00:41.400 --> 00:00:42.700 time when I first started
NOTE Confidence: 0.9909668
00:00:43.240 --> 00:00:43.979 my journey,

NOTE Confidence: 0.98828125
00:00:44.305 --> 00:00:44.965 you know,
NOTE Confidence: 0.9456868
00:00:45.425 --> 00:00:46.865 as a family member of
NOTE Confidence: 0.9456868
00:00:46.865 --> 00:00:48.645 people who passed from melanoma,
NOTE Confidence: 0.9720052
00:00:49.185 --> 00:00:50.305 working on some of the
NOTE Confidence: 0.9720052
00:00:50.305 --> 00:00:52.245 things that won Nobel prizes
NOTE Confidence: 0.9720052
00:00:52.305 --> 00:00:53.125 and couldn't
NOTE Confidence: 0.9581632
00:00:53.665 --> 00:00:54.545 couldn't give it to a
NOTE Confidence: 0.9581632
00:00:54.545 --> 00:00:56.305 family member and where we've
NOTE Confidence: 0.9581632
00:00:56.305 --> 00:00:56.805 come
NOTE Confidence: 0.93273926
00:00:57.260 --> 00:00:58.480 in all of these years
NOTE Confidence: 0.93273926
00:00:58.700 --> 00:01:00.620 and that all of you,
NOTE Confidence: 0.93273926
00:01:00.620 --> 00:01:01.340 some of you who are
NOTE Confidence: 0.93273926
00:01:01.340 --> 00:01:02.800 in the audience were astronauts.
NOTE Confidence: 0.95532227
00:01:03.420 --> 00:01:04.880 You know, you
NOTE Confidence: 0.9311676
00:01:05.180 --> 00:01:06.700 there was a crazy ideas
NOTE Confidence: 0.9311676

00:01:06.700 --> 00:01:07.920 about immune therapy,
NOTE Confidence: 0.98782784

00:01:08.459 --> 00:01:10.140 and you guys went along
NOTE Confidence: 0.98782784

00:01:10.140 --> 00:01:11.260 for the ride. And not
NOTE Confidence: 0.98782784

00:01:11.260 --> 00:01:12.954 only that, but supported, you
NOTE Confidence: 0.98782784

00:01:12.954 --> 00:01:14.634 know, family members through the
NOTE Confidence: 0.98782784

00:01:14.634 --> 00:01:15.134 process.
NOTE Confidence: 0.97770184

00:01:16.314 --> 00:01:17.994 So on that note, thank
NOTE Confidence: 0.97770184

00:01:17.994 --> 00:01:19.274 you all. Debbie, I'm gonna
NOTE Confidence: 0.97770184

00:01:19.435 --> 00:01:20.094 you can
NOTE Confidence: 0.9992676

00:01:20.475 --> 00:01:21.854 make some opening remarks.
NOTE Confidence: 0.9765689

00:01:29.840 --> 00:01:31.520 Hello, everyone. I am Debbie
NOTE Confidence: 0.9765689

00:01:31.520 --> 00:01:32.959 Chergai. I am the senior
NOTE Confidence: 0.9765689

00:01:32.959 --> 00:01:35.200 education program manager at the
NOTE Confidence: 0.9765689

00:01:35.200 --> 00:01:35.700 MRF.
NOTE Confidence: 0.92854816

00:01:36.640 --> 00:01:37.860 We partnered today,
NOTE Confidence: 0.93777627

00:01:38.595 --> 00:01:39.635 with the ELF to put

NOTE Confidence: 0.93777627

00:01:39.635 --> 00:01:41.155 this symposium on for you

NOTE Confidence: 0.93777627

00:01:41.155 --> 00:01:42.194 today, so thank you so

NOTE Confidence: 0.93777627

00:01:42.194 --> 00:01:43.415 much for being here.

NOTE Confidence: 0.9946289

00:01:46.515 --> 00:01:47.555 First, I just wanna thank

NOTE Confidence: 0.9946289

00:01:47.555 --> 00:01:48.295 our sponsors.

NOTE Confidence: 0.9937023

00:01:49.955 --> 00:01:51.635 They these amazing companies have

NOTE Confidence: 0.9937023

00:01:51.635 --> 00:01:53.510 sponsored not only events like

NOTE Confidence: 0.9937023

00:01:53.510 --> 00:01:54.710 this, but they sponsor some

NOTE Confidence: 0.9937023

00:01:54.710 --> 00:01:56.650 of our other, many educational

NOTE Confidence: 0.9937023

00:01:56.790 --> 00:01:58.310 opportunities and events. In fact,

NOTE Confidence: 0.9937023

00:01:58.310 --> 00:01:59.990 if there's anyone here from

NOTE Confidence: 0.9937023

00:01:59.990 --> 00:02:00.950 any of these companies, is

NOTE Confidence: 0.9937023

00:02:00.950 --> 00:02:02.630 there, any industry reps here?

NOTE Confidence: 0.9937023

00:02:02.630 --> 00:02:03.770 Please raise your hands.

NOTE Confidence: 0.9956868

00:02:04.070 --> 00:02:05.510 Yes. Awesome. Take a look

NOTE Confidence: 0.9956868

00:02:05.510 --> 00:02:06.970 around. Thank them. Yes.

NOTE Confidence: 0.99975586

00:02:08.685 --> 00:02:09.905 Thank you so much

NOTE Confidence: 0.99782985

00:02:10.685 --> 00:02:11.885 for being here and for

NOTE Confidence: 0.99782985

00:02:11.885 --> 00:02:13.425 supporting events like this.

NOTE Confidence: 0.97198486

00:02:13.885 --> 00:02:15.405 Without their support, we truly

NOTE Confidence: 0.97198486

00:02:15.405 --> 00:02:16.525 could not do some things

NOTE Confidence: 0.97198486

00:02:16.525 --> 00:02:17.264 like this.

NOTE Confidence: 0.98861694

00:02:17.965 --> 00:02:18.925 First, I just wanna give

NOTE Confidence: 0.98861694

00:02:18.925 --> 00:02:19.725 a few facts.

NOTE Confidence: 0.99562764

00:02:20.605 --> 00:02:21.565 Some of you guys might

NOTE Confidence: 0.99562764

00:02:21.565 --> 00:02:23.325 know these already. In twenty

NOTE Confidence: 0.99562764

00:02:23.325 --> 00:02:23.825 twenty

NOTE Confidence: 0.9167236

00:02:24.200 --> 00:02:25.800 five, over two hundred and

NOTE Confidence: 0.9167236

00:02:25.800 --> 00:02:27.740 twelve thousand people. Oops. Sorry.

NOTE Confidence: 0.99679565

00:02:31.480 --> 00:02:33.000 There we go. People living

NOTE Confidence: 0.99679565

00:02:33.000 --> 00:02:33.960 in the United States are

NOTE Confidence: 0.99679565
00:02:33.960 --> 00:02:35.480 expected to be diagnosed with
NOTE Confidence: 0.99679565
00:02:35.480 --> 00:02:35.980 melanoma.
NOTE Confidence: 0.99316406
00:02:36.675 --> 00:02:37.955 Nearly ninety three percent of
NOTE Confidence: 0.99316406
00:02:37.955 --> 00:02:39.155 melanomas are thought to be
NOTE Confidence: 0.99316406
00:02:39.155 --> 00:02:40.915 caused by exposure to UV
NOTE Confidence: 0.99316406
00:02:40.915 --> 00:02:41.815 light and sunlight.
NOTE Confidence: 0.9596353
00:02:42.514 --> 00:02:43.794 Melanoma is not just a
NOTE Confidence: 0.9596353
00:02:43.794 --> 00:02:45.315 skin cancer, it develops anywhere
NOTE Confidence: 0.9596353
00:02:45.315 --> 00:02:47.075 in the body, eyes, nails,
NOTE Confidence: 0.9596353
00:02:47.075 --> 00:02:47.974 feet, mouth,
NOTE Confidence: 0.9952714
00:02:48.355 --> 00:02:49.709 and the five year survival
NOTE Confidence: 0.9952714
00:02:49.709 --> 00:02:50.830 rate for stage one to
NOTE Confidence: 0.9952714
00:02:50.830 --> 00:02:52.750 two localized melanoma is ninety
NOTE Confidence: 0.9952714
00:02:52.750 --> 00:02:54.290 seven point six percent.
NOTE Confidence: 0.99934894
00:02:55.230 --> 00:02:56.510 There are over one point
NOTE Confidence: 0.99934894

00:02:56.510 --> 00:02:57.010 four
NOTE Confidence: 0.98847115

00:02:57.310 --> 00:02:59.250 million people living with melanoma
NOTE Confidence: 0.98847115

00:02:59.470 --> 00:03:00.690 in the United States.
NOTE Confidence: 0.9730072

00:03:01.544 --> 00:03:02.584 And as I'm sure all
NOTE Confidence: 0.9730072

00:03:02.584 --> 00:03:03.864 of you know, melanoma is
NOTE Confidence: 0.9730072

00:03:03.864 --> 00:03:05.385 the deadliest form of skin
NOTE Confidence: 0.9730072

00:03:05.385 --> 00:03:05.885 cancer,
NOTE Confidence: 0.9972447

00:03:06.264 --> 00:03:07.385 and skin cancer is the
NOTE Confidence: 0.9972447

00:03:07.385 --> 00:03:08.984 most common form of cancer
NOTE Confidence: 0.9972447

00:03:08.984 --> 00:03:10.044 in the United States.
NOTE Confidence: 0.93968827

00:03:14.049 --> 00:03:15.970 The Melanoma Research Foundation is
NOTE Confidence: 0.93968827

00:03:15.970 --> 00:03:18.069 the largest independent organization
NOTE Confidence: 0.95453554

00:03:18.370 --> 00:03:19.669 devoted to melanoma,
NOTE Confidence: 0.97685546

00:03:20.129 --> 00:03:21.169 committed to the sport of
NOTE Confidence: 0.97685546

00:03:21.169 --> 00:03:23.250 medical research to develop effective
NOTE Confidence: 0.97685546

00:03:23.250 --> 00:03:24.610 treatments and eventually a cure

NOTE Confidence: 0.97685546
00:03:24.610 --> 00:03:26.209 for melanoma. I'm gonna give
NOTE Confidence: 0.97685546
00:03:26.209 --> 00:03:27.935 you just a short overview.
NOTE Confidence: 0.97685546
00:03:28.235 --> 00:03:29.275 I'll try to go quickly
NOTE Confidence: 0.97685546
00:03:29.275 --> 00:03:29.995 so we can get to
NOTE Confidence: 0.97685546
00:03:29.995 --> 00:03:32.255 the real amazing speakers today.
NOTE Confidence: 0.96291775
00:03:34.555 --> 00:03:35.935 This is our founder, Diana
NOTE Confidence: 0.96291775
00:03:35.995 --> 00:03:36.495 Ashby.
NOTE Confidence: 0.95458984
00:03:37.115 --> 00:03:37.515 She,
NOTE Confidence: 0.93821883
00:03:38.075 --> 00:03:39.515 MRF was founded in nineteen
NOTE Confidence: 0.93821883
00:03:39.515 --> 00:03:41.329 ninety six. She was diagnosed
NOTE Confidence: 0.93821883
00:03:41.329 --> 00:03:42.530 with melanoma and after a
NOTE Confidence: 0.93821883
00:03:42.530 --> 00:03:43.510 three year battle,
NOTE Confidence: 0.96602374
00:03:43.810 --> 00:03:44.930 found that there were no
NOTE Confidence: 0.96602374
00:03:44.930 --> 00:03:46.370 options for new therapies and
NOTE Confidence: 0.96602374
00:03:46.370 --> 00:03:47.269 clinical trials.
NOTE Confidence: 0.99934894

00:03:47.730 --> 00:03:49.170 A lot has changed since
NOTE Confidence: 0.99934894
00:03:49.170 --> 00:03:49.670 then.
NOTE Confidence: 0.97819424
00:03:51.730 --> 00:03:53.250 Diana's legacy lives through the
NOTE Confidence: 0.97819424
00:03:53.250 --> 00:03:54.629 MRF and all the incredible
NOTE Confidence: 0.97819424
00:03:54.689 --> 00:03:56.505 work we do. The MRF,
NOTE Confidence: 0.97819424
00:03:56.505 --> 00:03:58.365 we have three main, pillars,
NOTE Confidence: 0.98602295
00:03:58.665 --> 00:04:00.605 education, research, and advocacy.
NOTE Confidence: 0.99778646
00:04:01.225 --> 00:04:02.505 This is an example of
NOTE Confidence: 0.99778646
00:04:02.505 --> 00:04:03.805 one of our many educational
NOTE Confidence: 0.99778646
00:04:03.945 --> 00:04:05.245 events that we put on,
NOTE Confidence: 0.99970704
00:04:06.025 --> 00:04:07.145 and I'll go over just
NOTE Confidence: 0.99970704
00:04:07.145 --> 00:04:07.945 a few of the other
NOTE Confidence: 0.99970704
00:04:07.945 --> 00:04:09.245 things we have as well.
NOTE Confidence: 0.67041016
00:04:09.990 --> 00:04:10.490 A
NOTE Confidence: 0.9328003
00:04:10.950 --> 00:04:11.910 little bit of our footprint
NOTE Confidence: 0.9328003
00:04:11.910 --> 00:04:13.670 today. The MRF hosts several

NOTE Confidence: 0.9328003
00:04:13.670 --> 00:04:15.030 events all over the country
NOTE Confidence: 0.9328003
00:04:15.030 --> 00:04:15.530 including,
NOTE Confidence: 0.95581055
00:04:17.029 --> 00:04:17.529 nineteen,
NOTE Confidence: 0.9883478
00:04:18.550 --> 00:04:20.230 five k runs in different
NOTE Confidence: 0.9883478
00:04:20.230 --> 00:04:22.150 cities and states, two signature
NOTE Confidence: 0.9883478
00:04:22.150 --> 00:04:22.650 galas,
NOTE Confidence: 0.9846802
00:04:23.555 --> 00:04:24.755 and we bring patients and
NOTE Confidence: 0.9846802
00:04:24.755 --> 00:04:26.055 caregivers to DC
NOTE Confidence: 0.99609375
00:04:26.835 --> 00:04:28.375 to talk with congressional leaders
NOTE Confidence: 0.99609375
00:04:28.435 --> 00:04:29.555 about what is needed and
NOTE Confidence: 0.99609375
00:04:29.555 --> 00:04:30.915 why more funding is required
NOTE Confidence: 0.99609375
00:04:30.915 --> 00:04:32.294 for melanoma research.
NOTE Confidence: 0.9813574
00:04:35.650 --> 00:04:37.250 Research really is at the
NOTE Confidence: 0.9813574
00:04:37.250 --> 00:04:39.010 heart of our mission, supporting
NOTE Confidence: 0.9813574
00:04:39.010 --> 00:04:40.930 scientists whose discoveries lead to
NOTE Confidence: 0.9813574

00:04:40.930 --> 00:04:42.690 better treatments, improve outcomes, and

NOTE Confidence: 0.9813574

00:04:42.690 --> 00:04:44.870 new hope for melanoma patients.

NOTE Confidence: 0.986399

00:04:45.730 --> 00:04:46.930 This slide highlights some of

NOTE Confidence: 0.986399

00:04:46.930 --> 00:04:48.770 the groundbreaking research that MRF

NOTE Confidence: 0.986399

00:04:48.770 --> 00:04:49.995 has funded in the past

NOTE Confidence: 0.986399

00:04:50.235 --> 00:04:51.435 three in the past years

NOTE Confidence: 0.986399

00:04:51.435 --> 00:04:53.055 and continues to support today.

NOTE Confidence: 0.986399

00:04:53.354 --> 00:04:54.875 We have awarded thirty four

NOTE Confidence: 0.986399

00:04:54.875 --> 00:04:55.375 grants,

NOTE Confidence: 0.90426636

00:04:56.395 --> 00:04:57.675 in two hundred and twenty

NOTE Confidence: 0.90426636

00:04:57.675 --> 00:04:58.815 five or sorry,

NOTE Confidence: 0.9324544

00:04:59.195 --> 00:05:00.335 twenty twenty five,

NOTE Confidence: 0.95809656

00:05:00.635 --> 00:05:02.154 and we've funded over twenty

NOTE Confidence: 0.95809656

00:05:02.154 --> 00:05:03.935 eight million dollars in research

NOTE Confidence: 0.95809656

00:05:03.995 --> 00:05:04.495 overall.

NOTE Confidence: 0.97924805

00:05:06.479 --> 00:05:07.379 This next slide,

NOTE Confidence: 0.9848128
00:05:08.639 --> 00:05:10.240 highlights some of the grants
NOTE Confidence: 0.9848128
00:05:10.240 --> 00:05:11.940 that we funded for Yale.
NOTE Confidence: 0.9848128
00:05:12.000 --> 00:05:13.440 So since two thousand eleven,
NOTE Confidence: 0.9848128
00:05:13.440 --> 00:05:15.120 the MRF has provided over
NOTE Confidence: 0.9848128
00:05:15.120 --> 00:05:16.639 nine hundred and fifty thousand
NOTE Confidence: 0.9848128
00:05:16.639 --> 00:05:18.020 dollars through nine grants
NOTE Confidence: 0.9627075
00:05:18.385 --> 00:05:20.065 to support the melanoma research
NOTE Confidence: 0.9627075
00:05:20.065 --> 00:05:21.904 at, at Yale. Through these
NOTE Confidence: 0.9627075
00:05:21.904 --> 00:05:22.805 grants, researchers
NOTE Confidence: 0.9539684
00:05:23.425 --> 00:05:25.105 have produced exciting results for
NOTE Confidence: 0.9539684
00:05:25.105 --> 00:05:27.365 the melanoma research community, including
NOTE Confidence: 0.9539684
00:05:27.505 --> 00:05:28.005 twelve
NOTE Confidence: 0.9979137
00:05:28.464 --> 00:05:30.625 scientific publications to advance the
NOTE Confidence: 0.9979137
00:05:30.625 --> 00:05:32.464 understanding of melanoma and its
NOTE Confidence: 0.9979137
00:05:32.464 --> 00:05:32.964 treatments.
NOTE Confidence: 0.9753307

00:05:34.440 --> 00:05:36.200 The MRF supported projects have
NOTE Confidence: 0.9753307

00:05:36.200 --> 00:05:37.960 also enabled Yale researchers to
NOTE Confidence: 0.9753307

00:05:37.960 --> 00:05:39.960 start over over forty new
NOTE Confidence: 0.9753307

00:05:39.960 --> 00:05:42.380 scientific collaborations and helped four
NOTE Confidence: 0.9753307

00:05:42.440 --> 00:05:43.339 Yale researchers
NOTE Confidence: 0.99423826

00:05:43.800 --> 00:05:45.400 secure additional funding from other
NOTE Confidence: 0.99423826

00:05:45.400 --> 00:05:47.420 sources to support their research.
NOTE Confidence: 0.999163

00:05:51.515 --> 00:05:52.315 This is one of my
NOTE Confidence: 0.999163

00:05:52.315 --> 00:05:53.275 favorite slides.
NOTE Confidence: 0.97160995

00:05:53.675 --> 00:05:54.714 Did you know that by
NOTE Confidence: 0.97160995

00:05:54.714 --> 00:05:56.714 funding melanoma research, you are
NOTE Confidence: 0.97160995

00:05:56.714 --> 00:05:58.175 also helping to advance
NOTE Confidence: 0.95182294

00:05:59.115 --> 00:06:00.335 all cancer research?
NOTE Confidence: 0.98435754

00:06:01.115 --> 00:06:02.875 Melanoma research breakthroughs have led
NOTE Confidence: 0.98435754

00:06:02.875 --> 00:06:04.320 to approvals in both targeted
NOTE Confidence: 0.98435754

00:06:04.320 --> 00:06:06.020 therapies for BRAF mutations

NOTE Confidence: 0.9970703
00:06:06.320 --> 00:06:07.060 and immunotherapy
NOTE Confidence: 0.9980469
00:06:07.520 --> 00:06:08.020 treatments
NOTE Confidence: 0.9776204
00:06:08.400 --> 00:06:09.460 for many cancers.
NOTE Confidence: 0.9650657
00:06:10.000 --> 00:06:11.540 Since the development of immunotherapy
NOTE Confidence: 0.9650657
00:06:11.760 --> 00:06:12.979 in the last ten years,
NOTE Confidence: 0.9650657
00:06:13.199 --> 00:06:13.699 distance
NOTE Confidence: 0.86568195
00:06:14.240 --> 00:06:16.560 metastatic disease patient survival rates
NOTE Confidence: 0.86568195
00:06:16.560 --> 00:06:17.060 increased
NOTE Confidence: 0.9970703
00:06:17.725 --> 00:06:18.945 from fifteen percent
NOTE Confidence: 0.99554443
00:06:19.325 --> 00:06:20.705 to over fifty percent.
NOTE Confidence: 0.9652194
00:06:21.085 --> 00:06:21.725 And as you can see
NOTE Confidence: 0.9652194
00:06:21.725 --> 00:06:22.605 in the slide, these are
NOTE Confidence: 0.9652194
00:06:22.605 --> 00:06:23.245 all the other,
NOTE Confidence: 0.99731445
00:06:24.525 --> 00:06:25.665 cancers that,
NOTE Confidence: 0.98760986
00:06:26.525 --> 00:06:27.964 you help by helping to
NOTE Confidence: 0.98760986

00:06:27.964 --> 00:06:29.345 fund melanoma research.
NOTE Confidence: 0.99419487

00:06:32.910 --> 00:06:34.270 Another facet of our research
NOTE Confidence: 0.99419487

00:06:34.270 --> 00:06:35.730 is our breakthrough consortium,
NOTE Confidence: 0.9765625

00:06:36.670 --> 00:06:39.330 which accelerates melanoma translational research
NOTE Confidence: 0.9765625

00:06:39.390 --> 00:06:41.710 through multi institutional collaborations and
NOTE Confidence: 0.9765625

00:06:41.710 --> 00:06:42.930 fostering the growth
NOTE Confidence: 0.97066826

00:06:43.514 --> 00:06:45.195 of early career scientists and
NOTE Confidence: 0.97066826

00:06:45.195 --> 00:06:46.175 clinical investigations.
NOTE Confidence: 0.9451172

00:06:46.634 --> 00:06:47.514 And as you can see,
NOTE Confidence: 0.9451172

00:06:47.514 --> 00:06:49.455 Yale University is on there.
NOTE Confidence: 0.971296

00:06:51.995 --> 00:06:53.195 We have a variety of
NOTE Confidence: 0.971296

00:06:53.195 --> 00:06:54.414 educational opportunities,
NOTE Confidence: 0.98165894

00:06:54.875 --> 00:06:56.235 not only directed at patients,
NOTE Confidence: 0.98165894

00:06:56.235 --> 00:06:57.775 but caregivers, providers.
NOTE Confidence: 0.9345398

00:06:58.440 --> 00:07:00.380 We have educational materials, webinars,
NOTE Confidence: 0.9345398

00:07:00.520 --> 00:07:01.900 animated patient videos,

NOTE Confidence: 0.9722023
00:07:02.920 --> 00:07:04.380 patient we give patient caregiver
NOTE Confidence: 0.9722023
00:07:04.440 --> 00:07:06.040 symposia like this, and we
NOTE Confidence: 0.9722023
00:07:06.040 --> 00:07:06.840 also have a lot of
NOTE Confidence: 0.9722023
00:07:06.840 --> 00:07:08.380 materials on rare subtypes.
NOTE Confidence: 0.9492048
00:07:11.485 --> 00:07:12.865 We have over thirty pieces
NOTE Confidence: 0.9492048
00:07:13.085 --> 00:07:15.085 of literature available on our
NOTE Confidence: 0.9492048
00:07:15.085 --> 00:07:16.605 website these are all free
NOTE Confidence: 0.9492048
00:07:16.605 --> 00:07:18.685 to download or order you
NOTE Confidence: 0.9492048
00:07:18.685 --> 00:07:20.445 can order bundles of them
NOTE Confidence: 0.9492048
00:07:20.445 --> 00:07:21.325 so if you have an
NOTE Confidence: 0.9492048
00:07:21.325 --> 00:07:23.220 educational event that you want,
NOTE Confidence: 0.9691162
00:07:24.180 --> 00:07:25.540 to bring some information to,
NOTE Confidence: 0.9691162
00:07:25.540 --> 00:07:26.680 I highly suggest
NOTE Confidence: 0.9632094
00:07:26.980 --> 00:07:28.660 going on our website, checking
NOTE Confidence: 0.9632094
00:07:28.660 --> 00:07:30.420 out our educational literature page,
NOTE Confidence: 0.9632094

00:07:30.420 --> 00:07:31.460 at the very end there's
NOTE Confidence: 0.9632094

00:07:31.460 --> 00:07:32.360 an order form,
NOTE Confidence: 0.99975586

00:07:33.060 --> 00:07:34.120 and you can order
NOTE Confidence: 0.91359454

00:07:34.420 --> 00:07:35.620 five hundred up to five
NOTE Confidence: 0.91359454

00:07:35.620 --> 00:07:37.160 hundred different types of or
NOTE Confidence: 0.91359454

00:07:37.264 --> 00:07:37.945 five hundred,
NOTE Confidence: 0.9980469

00:07:38.385 --> 00:07:38.885 materials
NOTE Confidence: 0.9165039

00:07:39.345 --> 00:07:41.025 for your events all for
NOTE Confidence: 0.9165039

00:07:41.025 --> 00:07:41.525 free.
NOTE Confidence: 0.95269096

00:07:42.305 --> 00:07:43.025 And you could do it
NOTE Confidence: 0.95269096

00:07:43.025 --> 00:07:44.145 multiple times a year.
NOTE Confidence: 0.9234985

00:07:48.865 --> 00:07:50.889 The melanoma the MRF also
NOTE Confidence: 0.9234985

00:07:50.889 --> 00:07:53.150 hosts monthly ask expert webinars.
NOTE Confidence: 0.9909668

00:07:53.770 --> 00:07:56.190 We have animated patient videos.
NOTE Confidence: 0.9771347

00:07:56.810 --> 00:07:58.410 These are great videos that
NOTE Confidence: 0.9771347

00:07:58.410 --> 00:07:59.710 are very short. They're about

NOTE Confidence: 0.9771347
00:07:59.849 --> 00:08:01.130 all less than ten minutes.
NOTE Confidence: 0.9771347
00:08:01.370 --> 00:08:02.490 They're a great way to
NOTE Confidence: 0.9771347
00:08:02.490 --> 00:08:03.610 share with people if you
NOTE Confidence: 0.9771347
00:08:03.610 --> 00:08:05.210 wanna educate them on, some
NOTE Confidence: 0.9771347
00:08:05.210 --> 00:08:05.775 of the,
NOTE Confidence: 0.96603733
00:08:06.255 --> 00:08:07.235 parts of melanoma,
NOTE Confidence: 0.99975586
00:08:07.935 --> 00:08:08.895 and we have some new
NOTE Confidence: 0.99975586
00:08:08.895 --> 00:08:09.794 ones in the
NOTE Confidence: 0.9645996
00:08:10.095 --> 00:08:11.235 works. And then also,
NOTE Confidence: 0.963781
00:08:11.854 --> 00:08:13.074 if you want more education
NOTE Confidence: 0.963781
00:08:13.294 --> 00:08:15.475 on our MRF YouTube channel,
NOTE Confidence: 0.963781
00:08:15.615 --> 00:08:16.495 you can find all of
NOTE Confidence: 0.963781
00:08:16.495 --> 00:08:17.854 our past patient and caregiver
NOTE Confidence: 0.963781
00:08:17.854 --> 00:08:19.455 symposia. The one today will
NOTE Confidence: 0.963781
00:08:19.455 --> 00:08:21.010 also be posted there in
NOTE Confidence: 0.963781

00:08:21.010 --> 00:08:21.990 a week or two.
NOTE Confidence: 0.9458279

00:08:22.290 --> 00:08:23.890 All of our past, ASSA
NOTE Confidence: 0.9458279

00:08:23.890 --> 00:08:25.750 expert webinars, patient testimonials,
NOTE Confidence: 0.9823468

00:08:26.610 --> 00:08:27.650 and tons of other other
NOTE Confidence: 0.9823468

00:08:27.650 --> 00:08:28.610 things if you're looking for
NOTE Confidence: 0.9823468

00:08:28.610 --> 00:08:29.430 some more education.
NOTE Confidence: 0.9996745

00:08:32.385 --> 00:08:33.585 We also have an amazing
NOTE Confidence: 0.9996745

00:08:33.585 --> 00:08:35.205 patient and caregiver community.
NOTE Confidence: 0.9548973

00:08:35.745 --> 00:08:37.105 This, has been going on
NOTE Confidence: 0.9548973

00:08:37.105 --> 00:08:38.385 for many, many years, and
NOTE Confidence: 0.9548973

00:08:38.385 --> 00:08:39.345 so you can find so
NOTE Confidence: 0.9548973

00:08:39.345 --> 00:08:41.105 many different topics such as
NOTE Confidence: 0.9548973

00:08:41.105 --> 00:08:42.545 Till cell therapy, you know,
NOTE Confidence: 0.9548973

00:08:42.545 --> 00:08:43.205 new therapies,
NOTE Confidence: 0.9955512

00:08:44.225 --> 00:08:46.304 newly diagnosed patients who want
NOTE Confidence: 0.9955512

00:08:46.304 --> 00:08:47.925 some questions answered, bereavement

NOTE Confidence: 0.85375977
00:08:48.360 --> 00:08:48.860 support,
NOTE Confidence: 0.9834442
00:08:49.240 --> 00:08:50.760 there's so many different topics
NOTE Confidence: 0.9834442
00:08:50.760 --> 00:08:51.880 that you can search or
NOTE Confidence: 0.9834442
00:08:51.880 --> 00:08:52.920 you can start your own
NOTE Confidence: 0.9834442
00:08:52.920 --> 00:08:53.420 conversation.
NOTE Confidence: 0.9082489
00:08:56.679 --> 00:08:58.620 This is our new, program
NOTE Confidence: 0.9082489
00:08:58.679 --> 00:08:59.740 it's called SunAware.
NOTE Confidence: 0.96285576
00:09:00.365 --> 00:09:01.804 It's a sun safety e
NOTE Confidence: 0.96285576
00:09:01.804 --> 00:09:03.324 learning program for children in
NOTE Confidence: 0.96285576
00:09:03.324 --> 00:09:04.785 grades k through five.
NOTE Confidence: 0.9547164
00:09:05.324 --> 00:09:07.165 This curriculum promotes healthy sun
NOTE Confidence: 0.9547164
00:09:07.165 --> 00:09:08.684 safe habits to help prevent
NOTE Confidence: 0.9547164
00:09:08.684 --> 00:09:10.365 melanoma, skin cancer, and sun
NOTE Confidence: 0.9547164
00:09:10.365 --> 00:09:11.745 related skin damage.
NOTE Confidence: 0.89660645
00:09:12.125 --> 00:09:13.425 Right now, we are,
NOTE Confidence: 0.98217773

00:09:16.180 --> 00:09:17.880 circulating it through schools,
NOTE Confidence: 0.9926758
00:09:18.420 --> 00:09:19.880 and also youth organizations.
NOTE Confidence: 0.9964664
00:09:20.420 --> 00:09:21.780 If you guys want more
NOTE Confidence: 0.9964664
00:09:21.780 --> 00:09:23.380 information on it, for any
NOTE Confidence: 0.9964664
00:09:23.380 --> 00:09:25.140 of your local communities, please
NOTE Confidence: 0.9964664
00:09:25.140 --> 00:09:26.120 give us a contact.
NOTE Confidence: 0.9276123
00:09:30.054 --> 00:09:31.255 As I mentioned before every
NOTE Confidence: 0.9276123
00:09:31.255 --> 00:09:32.855 year we bring caregivers to
NOTE Confidence: 0.9276123
00:09:32.855 --> 00:09:34.235 the hill patients and caregivers
NOTE Confidence: 0.9276123
00:09:34.295 --> 00:09:35.175 to the hill to meet
NOTE Confidence: 0.9276123
00:09:35.415 --> 00:09:37.755 with state legislators and congressional
NOTE Confidence: 0.9276123
00:09:37.894 --> 00:09:38.394 leaders.
NOTE Confidence: 0.9839913
00:09:38.774 --> 00:09:39.975 We work with them to
NOTE Confidence: 0.9839913
00:09:39.975 --> 00:09:41.495 help increase funding for cancer
NOTE Confidence: 0.9839913
00:09:41.495 --> 00:09:43.595 and specifically melanoma research.
NOTE Confidence: 0.9784523
00:09:43.970 --> 00:09:44.690 If you would like to

NOTE Confidence: 0.9784523

00:09:44.690 --> 00:09:46.390 attend any of our, advocacy

NOTE Confidence: 0.9784523

00:09:46.530 --> 00:09:48.770 days, please contact us and

NOTE Confidence: 0.9784523

00:09:48.770 --> 00:09:49.970 we'll let you we'll let

NOTE Confidence: 0.9784523

00:09:49.970 --> 00:09:50.690 you know when the next

NOTE Confidence: 0.9784523

00:09:50.690 --> 00:09:51.430 one is.

NOTE Confidence: 0.8948568

00:09:53.650 --> 00:09:55.010 We have several prevention and

NOTE Confidence: 0.8948568

00:09:55.010 --> 00:09:57.250 awareness campaigns, included our get

NOTE Confidence: 0.8948568

00:09:57.250 --> 00:09:58.710 naked, I get dilated,

NOTE Confidence: 0.5130615

00:10:00.335 --> 00:10:00.735 Stay,

NOTE Confidence: 0.8648571

00:10:01.214 --> 00:10:02.815 Spot Stay Safe with Spot

NOTE Confidence: 0.8648571

00:10:02.815 --> 00:10:05.075 campaign with for pediatric melanoma

NOTE Confidence: 0.8648571

00:10:05.214 --> 00:10:05.714 awareness.

NOTE Confidence: 0.95562744

00:10:06.175 --> 00:10:08.115 Our twenty twenty six spokesperson

NOTE Confidence: 0.95562744

00:10:08.175 --> 00:10:09.455 is Jason Chambers. I don't

NOTE Confidence: 0.95562744

00:10:09.455 --> 00:10:10.415 know if any of you

NOTE Confidence: 0.95562744

00:10:10.415 --> 00:10:12.200 recognize him. He is a
NOTE Confidence: 0.95562744

00:10:12.200 --> 00:10:14.679 melanoma patient, superyacht captain in
NOTE Confidence: 0.95562744

00:10:14.679 --> 00:10:15.980 bravo below deck,
NOTE Confidence: 0.9702814

00:10:17.559 --> 00:10:19.080 down under star, and he
NOTE Confidence: 0.9702814

00:10:19.080 --> 00:10:20.679 is our new spokesperson this
NOTE Confidence: 0.9702814

00:10:20.679 --> 00:10:21.179 year.
NOTE Confidence: 0.9970703

00:10:24.165 --> 00:10:25.545 We also have several programs,
NOTE Confidence: 0.986518

00:10:25.925 --> 00:10:26.885 that you can find more
NOTE Confidence: 0.986518

00:10:26.885 --> 00:10:28.105 about on our website.
NOTE Confidence: 0.9819132

00:10:31.205 --> 00:10:32.745 And there are several opportunities
NOTE Confidence: 0.9819132

00:10:32.804 --> 00:10:33.845 if you're looking for ways
NOTE Confidence: 0.9819132

00:10:33.845 --> 00:10:34.965 to get involved. We have
NOTE Confidence: 0.9819132

00:10:34.965 --> 00:10:37.445 community fundraisers, galas, miles for
NOTE Confidence: 0.9819132

00:10:37.445 --> 00:10:39.160 melanoma walks. There there was
NOTE Confidence: 0.9819132

00:10:39.160 --> 00:10:40.380 a postcard for,
NOTE Confidence: 0.95754105

00:10:40.920 --> 00:10:42.520 a local one going on

NOTE Confidence: 0.95754105
00:10:42.520 --> 00:10:44.120 soon if you guys, on
NOTE Confidence: 0.95754105
00:10:44.120 --> 00:10:45.880 our table, if you're interested
NOTE Confidence: 0.95754105
00:10:45.880 --> 00:10:46.620 in attending.
NOTE Confidence: 0.96292615
00:10:49.000 --> 00:10:50.120 And lastly, the best way
NOTE Confidence: 0.96292615
00:10:50.120 --> 00:10:51.240 to learn more about anything
NOTE Confidence: 0.96292615
00:10:51.240 --> 00:10:52.360 that I mentioned here, any
NOTE Confidence: 0.96292615
00:10:52.360 --> 00:10:53.355 events that we have coming
NOTE Confidence: 0.96292615
00:10:53.355 --> 00:10:54.315 up, or anything in the
NOTE Confidence: 0.96292615
00:10:54.315 --> 00:10:55.515 future is to just follow
NOTE Confidence: 0.96292615
00:10:55.515 --> 00:10:56.955 us on social media. We're
NOTE Confidence: 0.96292615
00:10:56.955 --> 00:10:57.855 on on the major,
NOTE Confidence: 0.99853516
00:10:58.315 --> 00:10:58.815 channels.
NOTE Confidence: 0.95706
00:11:01.915 --> 00:11:03.934 In your folders today or
NOTE Confidence: 0.95706
00:11:04.075 --> 00:11:05.274 with your folders today, we
NOTE Confidence: 0.95706
00:11:05.274 --> 00:11:06.475 also gave you a post
NOTE Confidence: 0.95706

00:11:06.475 --> 00:11:07.375 event survey.
NOTE Confidence: 0.9815267

00:11:08.160 --> 00:11:09.600 There's also a QR code
NOTE Confidence: 0.9815267

00:11:09.600 --> 00:11:10.639 that you can scan at
NOTE Confidence: 0.9815267

00:11:10.639 --> 00:11:12.399 the MRF table. We would
NOTE Confidence: 0.9815267

00:11:12.399 --> 00:11:14.160 really appreciate you filling out
NOTE Confidence: 0.9815267

00:11:14.160 --> 00:11:15.040 this survey. You can fill
NOTE Confidence: 0.9815267

00:11:15.040 --> 00:11:15.920 it out today as you
NOTE Confidence: 0.9815267

00:11:15.920 --> 00:11:16.959 go along or you can
NOTE Confidence: 0.9815267

00:11:16.959 --> 00:11:18.000 do it and hand it
NOTE Confidence: 0.9815267

00:11:18.000 --> 00:11:19.120 to me as you leave
NOTE Confidence: 0.9815267

00:11:19.120 --> 00:11:19.839 or you can do it
NOTE Confidence: 0.9815267

00:11:19.839 --> 00:11:21.440 online later. We'll follow-up with
NOTE Confidence: 0.9815267

00:11:21.440 --> 00:11:22.480 an email with a link
NOTE Confidence: 0.9815267

00:11:22.480 --> 00:11:23.860 to the survey as well.
NOTE Confidence: 0.9815267

00:11:23.945 --> 00:11:25.225 It's a very short survey,
NOTE Confidence: 0.9815267

00:11:25.225 --> 00:11:26.825 but I promise you it's

NOTE Confidence: 0.9815267
00:11:26.825 --> 00:11:28.184 really important. It lets us
NOTE Confidence: 0.9815267
00:11:28.184 --> 00:11:28.665 know,
NOTE Confidence: 0.98616534
00:11:29.385 --> 00:11:30.745 you know, topics that you
NOTE Confidence: 0.98616534
00:11:30.745 --> 00:11:32.184 wanna hear more about, and
NOTE Confidence: 0.98616534
00:11:32.184 --> 00:11:33.545 it helps us create more
NOTE Confidence: 0.98616534
00:11:33.545 --> 00:11:34.985 events that are important to
NOTE Confidence: 0.98616534
00:11:34.985 --> 00:11:35.485 you.
NOTE Confidence: 0.99102783
00:11:37.630 --> 00:11:38.750 Lastly, I just wanna thank
NOTE Confidence: 0.99102783
00:11:38.750 --> 00:11:39.790 the sponsors again,
NOTE Confidence: 0.9906142
00:11:40.110 --> 00:11:41.870 for supporting events like this
NOTE Confidence: 0.9906142
00:11:41.870 --> 00:11:43.090 and for being here.
NOTE Confidence: 0.96847534
00:11:43.470 --> 00:11:44.750 And, of course, Yale New
NOTE Confidence: 0.96847534
00:11:44.750 --> 00:11:46.350 Haven Health, thank you so
NOTE Confidence: 0.96847534
00:11:46.350 --> 00:11:47.710 much for partnering with us
NOTE Confidence: 0.96847534
00:11:47.710 --> 00:11:48.210 today.
NOTE Confidence: 0.97319335

00:11:57.184 --> 00:11:59.365 So, before we actually start,
NOTE Confidence: 0.99793124

00:12:00.625 --> 00:12:02.945 with the the physicians here
NOTE Confidence: 0.99793124

00:12:02.945 --> 00:12:04.704 to give information, we actually
NOTE Confidence: 0.99793124

00:12:04.704 --> 00:12:05.824 wanted to have one of
NOTE Confidence: 0.99793124

00:12:05.824 --> 00:12:07.390 our patients who's had
NOTE Confidence: 0.9725586

00:12:08.010 --> 00:12:10.190 really quite the incredible journey.
NOTE Confidence: 0.991333

00:12:11.450 --> 00:12:12.750 And if you wanna
NOTE Confidence: 0.9946289

00:12:14.170 --> 00:12:14.670 yep.
NOTE Confidence: 0.963916

00:12:15.690 --> 00:12:16.410 Where do you want? You
NOTE Confidence: 0.963916

00:12:16.410 --> 00:12:17.790 can go wherever you want.
NOTE Confidence: 0.997762

00:12:18.105 --> 00:12:19.065 You're the star of the
NOTE Confidence: 0.997762

00:12:19.065 --> 00:12:19.565 show.
NOTE Confidence: 0.8419441

00:12:20.105 --> 00:12:20.904 But come up here. Do
NOTE Confidence: 0.8419441

00:12:20.904 --> 00:12:21.865 you want a microphone and
NOTE Confidence: 0.8419441

00:12:21.865 --> 00:12:23.084 sit? Where'd you be comfortable?
NOTE Confidence: 0.8419441

00:12:23.304 --> 00:12:24.204 Okay. Here.

NOTE Confidence: 0.6043701
00:12:24.665 --> 00:12:25.165 Probably.
NOTE Confidence: 0.680542
00:12:25.625 --> 00:12:26.125 Alright.
NOTE Confidence: 0.989936
00:12:29.945 --> 00:12:31.304 And it's on. Okay. If
NOTE Confidence: 0.989936
00:12:31.304 --> 00:12:32.445 it becomes too loud,
NOTE Confidence: 0.98933244
00:12:33.050 --> 00:12:34.429 just give me a signal.
NOTE Confidence: 0.98933244
00:12:34.649 --> 00:12:36.029 My name is Brandy Orton.
NOTE Confidence: 0.98933244
00:12:36.089 --> 00:12:36.829 I am,
NOTE Confidence: 0.9547933
00:12:37.529 --> 00:12:38.970 I'm married. I'm a mother
NOTE Confidence: 0.9547933
00:12:38.970 --> 00:12:40.329 of two children ages twelve
NOTE Confidence: 0.9547933
00:12:40.329 --> 00:12:40.990 and thirteen.
NOTE Confidence: 0.97509766
00:12:41.449 --> 00:12:41.949 My
NOTE Confidence: 0.9482422
00:12:42.250 --> 00:12:43.870 I have or had melanoma.
NOTE Confidence: 0.9493001
00:12:45.129 --> 00:12:46.410 Date my story dates back
NOTE Confidence: 0.9493001
00:12:46.410 --> 00:12:46.569 to
NOTE Confidence: 0.98986816
00:12:47.595 --> 00:12:49.035 people can't hear you? Okay.
NOTE Confidence: 0.98986816

00:12:49.035 --> 00:12:51.214 Okay. Is that better? Okay.
NOTE Confidence: 0.98986816

00:12:51.355 --> 00:12:52.254 Brandy Wharton,
NOTE Confidence: 0.9873047

00:12:52.634 --> 00:12:54.254 married, mother of two children.
NOTE Confidence: 0.9873047

00:12:54.475 --> 00:12:55.995 My melanoma story goes back
NOTE Confidence: 0.9873047

00:12:55.995 --> 00:12:57.454 to twenty nineteen, twenty twenty.
NOTE Confidence: 0.987703

00:12:57.915 --> 00:12:58.714 I found a cut on
NOTE Confidence: 0.987703

00:12:58.714 --> 00:12:59.995 my wrist, and what popped
NOTE Confidence: 0.987703

00:12:59.995 --> 00:13:01.274 up a couple weeks later
NOTE Confidence: 0.987703

00:13:01.274 --> 00:13:02.714 was something that looked almost
NOTE Confidence: 0.987703

00:13:02.714 --> 00:13:04.160 like, a blister you get
NOTE Confidence: 0.987703

00:13:04.160 --> 00:13:04.880 on the back of your
NOTE Confidence: 0.987703

00:13:04.880 --> 00:13:06.240 heel. And at this point,
NOTE Confidence: 0.987703

00:13:06.240 --> 00:13:07.120 I was forty years old.
NOTE Confidence: 0.987703

00:13:07.120 --> 00:13:08.160 I'd had over thirty two
NOTE Confidence: 0.987703

00:13:08.160 --> 00:13:09.679 basal cell carcinomas and several
NOTE Confidence: 0.987703

00:13:09.679 --> 00:13:11.360 squamous cells. So I was

NOTE Confidence: 0.987703
00:13:11.360 --> 00:13:12.260 very familiar
NOTE Confidence: 0.996365
00:13:12.640 --> 00:13:13.620 with the dermatologist.
NOTE Confidence: 0.9847819
00:13:14.640 --> 00:13:16.160 I asked the dermatologist about
NOTE Confidence: 0.9847819
00:13:16.160 --> 00:13:16.960 that, and they said it
NOTE Confidence: 0.9847819
00:13:16.960 --> 00:13:18.080 was nothing, and then COVID
NOTE Confidence: 0.9847819
00:13:18.080 --> 00:13:19.274 hit. So I didn't go
NOTE Confidence: 0.9847819
00:13:19.274 --> 00:13:20.255 back to the dermatologist
NOTE Confidence: 0.9597602
00:13:21.115 --> 00:13:23.115 again until after the the
NOTE Confidence: 0.9597602
00:13:23.115 --> 00:13:24.714 majority of COVID had passed.
NOTE Confidence: 0.9597602
00:13:24.714 --> 00:13:25.995 When I did return, I'd
NOTE Confidence: 0.9597602
00:13:25.995 --> 00:13:26.955 asked about the spot again
NOTE Confidence: 0.9597602
00:13:26.955 --> 00:13:28.075 because it continued to grow,
NOTE Confidence: 0.9597602
00:13:28.075 --> 00:13:29.035 and they again told me
NOTE Confidence: 0.9597602
00:13:29.035 --> 00:13:29.995 it was nothing to worry
NOTE Confidence: 0.9597602
00:13:29.995 --> 00:13:31.515 about. They tried freezing it,
NOTE Confidence: 0.9597602

00:13:31.515 --> 00:13:32.975 and it grew very quickly.

NOTE Confidence: 0.92367214

00:13:33.480 --> 00:13:34.679 And, eventually, I had a

NOTE Confidence: 0.92367214

00:13:34.679 --> 00:13:35.800 biopsy and learned that it

NOTE Confidence: 0.92367214

00:13:35.800 --> 00:13:36.459 was melanoma.

NOTE Confidence: 0.97508794

00:13:37.000 --> 00:13:37.800 And in fact, I was

NOTE Confidence: 0.97508794

00:13:37.800 --> 00:13:39.000 told they believed it was

NOTE Confidence: 0.97508794

00:13:39.000 --> 00:13:40.839 a secondary cancer that, there

NOTE Confidence: 0.97508794

00:13:40.839 --> 00:13:41.880 was another type of cancer

NOTE Confidence: 0.97508794

00:13:41.880 --> 00:13:43.160 in my body. And during

NOTE Confidence: 0.97508794

00:13:43.160 --> 00:13:44.120 that time, I had over

NOTE Confidence: 0.97508794

00:13:44.120 --> 00:13:45.080 a month to wait for

NOTE Confidence: 0.97508794

00:13:45.080 --> 00:13:46.279 scans, so I really delved

NOTE Confidence: 0.97508794

00:13:46.279 --> 00:13:47.595 into a lot of I

NOTE Confidence: 0.97508794

00:13:47.595 --> 00:13:48.654 grew up in a natural

NOTE Confidence: 0.97508794

00:13:48.714 --> 00:13:50.315 focused household, so I dove

NOTE Confidence: 0.97508794

00:13:50.315 --> 00:13:51.675 into some of the research

NOTE Confidence: 0.97508794
00:13:51.675 --> 00:13:53.434 on naturopathic care and things
NOTE Confidence: 0.97508794
00:13:53.434 --> 00:13:54.495 I could do at home.
NOTE Confidence: 0.97508794
00:13:54.714 --> 00:13:55.995 We shifted to an organic
NOTE Confidence: 0.97508794
00:13:55.995 --> 00:13:57.355 diet and started juicing and
NOTE Confidence: 0.97508794
00:13:57.355 --> 00:13:58.415 taking some supplements.
NOTE Confidence: 0.9759701
00:13:58.875 --> 00:14:00.010 And then I found that
NOTE Confidence: 0.9759701
00:14:00.010 --> 00:14:01.370 the cancer luckily was not
NOTE Confidence: 0.9759701
00:14:01.370 --> 00:14:02.490 anywhere else in my body.
NOTE Confidence: 0.9759701
00:14:02.490 --> 00:14:03.450 I had a wide margin
NOTE Confidence: 0.9759701
00:14:03.450 --> 00:14:04.410 excision, and I thought that
NOTE Confidence: 0.9759701
00:14:04.410 --> 00:14:05.769 I was good to go
NOTE Confidence: 0.9759701
00:14:05.769 --> 00:14:06.890 and safe. I am an
NOTE Confidence: 0.9759701
00:14:06.890 --> 00:14:08.410 active duty service member, so
NOTE Confidence: 0.9759701
00:14:08.410 --> 00:14:09.769 I executed orders, and we
NOTE Confidence: 0.9759701
00:14:09.769 --> 00:14:10.970 moved to Tampa. And as
NOTE Confidence: 0.9759701

00:14:10.970 --> 00:14:11.769 part of my follow on
NOTE Confidence: 0.9759701

00:14:11.769 --> 00:14:12.730 care, we learned just a
NOTE Confidence: 0.9759701

00:14:12.730 --> 00:14:13.915 few months later that the
NOTE Confidence: 0.9759701

00:14:13.915 --> 00:14:15.595 cancer had, in fact, spread
NOTE Confidence: 0.9759701

00:14:15.595 --> 00:14:16.715 to the lymph nodes in
NOTE Confidence: 0.9759701

00:14:16.715 --> 00:14:17.375 my elbow.
NOTE Confidence: 0.9896351

00:14:17.755 --> 00:14:19.355 And so I met with
NOTE Confidence: 0.9896351

00:14:19.355 --> 00:14:20.795 the surgeon and with the
NOTE Confidence: 0.9896351

00:14:20.795 --> 00:14:21.295 oncologist,
NOTE Confidence: 0.9876732

00:14:21.675 --> 00:14:22.395 and I had a lot
NOTE Confidence: 0.9876732

00:14:22.395 --> 00:14:23.355 of questions. I'd done a
NOTE Confidence: 0.9876732

00:14:23.355 --> 00:14:24.315 lot of research. I had
NOTE Confidence: 0.9876732

00:14:24.315 --> 00:14:25.515 two young kids. I was
NOTE Confidence: 0.9876732

00:14:25.515 --> 00:14:26.780 very scared, and a lot
NOTE Confidence: 0.9876732

00:14:26.780 --> 00:14:27.900 of my questions were just
NOTE Confidence: 0.9876732

00:14:27.900 --> 00:14:29.520 brushed off. I felt unheard.

NOTE Confidence: 0.9876732
00:14:29.740 --> 00:14:30.860 I was told, hey. If
NOTE Confidence: 0.9876732
00:14:30.860 --> 00:14:31.980 you don't get treatment, you're
NOTE Confidence: 0.9876732
00:14:31.980 --> 00:14:33.020 gonna die, and they never
NOTE Confidence: 0.9876732
00:14:33.020 --> 00:14:34.080 answered my questions.
NOTE Confidence: 0.9888021
00:14:34.460 --> 00:14:36.000 I'd asked for a printout.
NOTE Confidence: 0.99194336
00:14:36.620 --> 00:14:37.580 They told me about the
NOTE Confidence: 0.99194336
00:14:37.580 --> 00:14:38.960 side effects of the treatment
NOTE Confidence: 0.99435604
00:14:39.415 --> 00:14:40.855 and statistics, and I was
NOTE Confidence: 0.99435604
00:14:40.855 --> 00:14:42.155 given a two page handout.
NOTE Confidence: 0.99435604
00:14:42.295 --> 00:14:43.335 And I left the doctor
NOTE Confidence: 0.99435604
00:14:43.335 --> 00:14:44.235 feeling very
NOTE Confidence: 0.95617676
00:14:44.535 --> 00:14:46.315 unfulfilled and very frustrated,
NOTE Confidence: 0.99450845
00:14:47.175 --> 00:14:47.895 and I thought there had
NOTE Confidence: 0.99450845
00:14:47.895 --> 00:14:48.615 to be a better way.
NOTE Confidence: 0.99450845
00:14:48.615 --> 00:14:49.975 So what it followed was
NOTE Confidence: 0.99450845

00:14:49.975 --> 00:14:51.095 a four year kind of
NOTE Confidence: 0.99450845

00:14:51.095 --> 00:14:52.139 journey where I tried a
NOTE Confidence: 0.99450845

00:14:52.139 --> 00:14:53.740 number of naturopathic things. I
NOTE Confidence: 0.99450845

00:14:53.740 --> 00:14:55.420 tried hyperbaric oxygen. I tried
NOTE Confidence: 0.99450845

00:14:55.420 --> 00:14:57.259 colon hydrotherapy. I tried lymphatic
NOTE Confidence: 0.99450845

00:14:57.259 --> 00:14:58.699 massage. I tried a number
NOTE Confidence: 0.99450845

00:14:58.699 --> 00:15:00.399 of diets and supplements, IVs,
NOTE Confidence: 0.9872233

00:15:00.940 --> 00:15:03.339 infrared saunas. But, ultimately, over
NOTE Confidence: 0.9872233

00:15:03.339 --> 00:15:04.300 the next four years, my
NOTE Confidence: 0.9872233

00:15:04.300 --> 00:15:06.375 cancer continued to grow until
NOTE Confidence: 0.9872233

00:15:06.375 --> 00:15:07.815 about September of twenty twenty
NOTE Confidence: 0.9872233

00:15:07.815 --> 00:15:08.295 four.
NOTE Confidence: 0.97657895

00:15:08.615 --> 00:15:09.735 I got follow on scans
NOTE Confidence: 0.97657895

00:15:09.735 --> 00:15:10.695 that showed it had spread
NOTE Confidence: 0.97657895

00:15:10.695 --> 00:15:12.215 to the lymph nodes in
NOTE Confidence: 0.97657895

00:15:12.215 --> 00:15:13.895 my in my, armpit, the

NOTE Confidence: 0.97657895
00:15:13.895 --> 00:15:15.575 axillary lobe. And I knew
NOTE Confidence: 0.97657895
00:15:15.575 --> 00:15:16.455 that that was a jumping
NOTE Confidence: 0.97657895
00:15:16.455 --> 00:15:17.415 off place to spread to
NOTE Confidence: 0.97657895
00:15:17.415 --> 00:15:18.375 other organs. And I was
NOTE Confidence: 0.97657895
00:15:18.375 --> 00:15:20.430 extremely scared because I was
NOTE Confidence: 0.97657895
00:15:20.430 --> 00:15:22.350 a, you know, a mother
NOTE Confidence: 0.97657895
00:15:22.350 --> 00:15:22.990 of two,
NOTE Confidence: 0.9777779
00:15:23.390 --> 00:15:24.830 with a wonderful career and
NOTE Confidence: 0.9777779
00:15:24.830 --> 00:15:26.030 a wonderful family, and I
NOTE Confidence: 0.9777779
00:15:26.030 --> 00:15:27.310 just was scared. I didn't
NOTE Confidence: 0.9777779
00:15:27.310 --> 00:15:28.030 know what to do, but
NOTE Confidence: 0.9777779
00:15:28.030 --> 00:15:29.310 I had been very frustrated
NOTE Confidence: 0.9777779
00:15:29.310 --> 00:15:30.510 by the interactions I'd had
NOTE Confidence: 0.9777779
00:15:30.510 --> 00:15:31.390 with the doctors up to
NOTE Confidence: 0.9777779
00:15:31.390 --> 00:15:32.670 that point. All of my
NOTE Confidence: 0.9777779

00:15:32.670 --> 00:15:33.950 concerns seemed to be brushed
NOTE Confidence: 0.9777779

00:15:33.950 --> 00:15:34.190 off,
NOTE Confidence: 0.9937966

00:15:35.255 --> 00:15:36.135 and none of my questions
NOTE Confidence: 0.9937966

00:15:36.135 --> 00:15:37.334 were answered. And I wasn't
NOTE Confidence: 0.9937966

00:15:37.334 --> 00:15:38.455 smart enough. I knew I
NOTE Confidence: 0.9937966

00:15:38.455 --> 00:15:39.735 wasn't smart enough to understand
NOTE Confidence: 0.9937966

00:15:39.735 --> 00:15:40.394 the medical,
NOTE Confidence: 0.9555664

00:15:41.015 --> 00:15:42.394 documents that I was reading.
NOTE Confidence: 0.97427803

00:15:42.695 --> 00:15:43.975 And so I felt very
NOTE Confidence: 0.97427803

00:15:43.975 --> 00:15:45.015 frustrated and kinda like I
NOTE Confidence: 0.97427803

00:15:45.015 --> 00:15:46.154 had nowhere to go.
NOTE Confidence: 0.97064763

00:15:46.455 --> 00:15:47.815 And, ultimately, I got a
NOTE Confidence: 0.97064763

00:15:47.815 --> 00:15:49.509 referral to Yale, and I
NOTE Confidence: 0.97064763

00:15:49.509 --> 00:15:50.550 met these two wonderful ladies.
NOTE Confidence: 0.97064763

00:15:50.550 --> 00:15:51.750 I met doctor Olena and
NOTE Confidence: 0.97064763

00:15:51.750 --> 00:15:52.569 doctor Kluger.

NOTE Confidence: 0.9941406
00:15:52.870 --> 00:15:53.670 And I will tell you
NOTE Confidence: 0.9941406
00:15:53.670 --> 00:15:55.269 that my experience was different
NOTE Confidence: 0.9941406
00:15:55.269 --> 00:15:56.170 at the get go.
NOTE Confidence: 0.9964844
00:15:56.949 --> 00:15:58.230 I got a call from
NOTE Confidence: 0.9964844
00:15:58.230 --> 00:15:59.750 nurse Rachel. She spent about
NOTE Confidence: 0.9964844
00:15:59.750 --> 00:16:00.790 thirty to forty five minutes
NOTE Confidence: 0.9964844
00:16:00.790 --> 00:16:01.910 on the phone asking me
NOTE Confidence: 0.9964844
00:16:01.910 --> 00:16:03.449 what had brought me here.
NOTE Confidence: 0.9795673
00:16:03.945 --> 00:16:05.485 I'd never had that before.
NOTE Confidence: 0.9795673
00:16:05.545 --> 00:16:06.825 I really felt heard, and
NOTE Confidence: 0.9795673
00:16:06.825 --> 00:16:07.725 I felt hopeful.
NOTE Confidence: 0.98683965
00:16:08.185 --> 00:16:09.645 And I went into the
NOTE Confidence: 0.98683965
00:16:09.945 --> 00:16:11.465 interactions with the doctors with
NOTE Confidence: 0.98683965
00:16:11.465 --> 00:16:12.685 a different kind of mindset
NOTE Confidence: 0.98683965
00:16:12.825 --> 00:16:13.865 just based off of that
NOTE Confidence: 0.98683965

00:16:13.865 --> 00:16:14.365 interaction.
NOTE Confidence: 0.96805996

00:16:14.745 --> 00:16:15.625 And then I met doctor
NOTE Confidence: 0.96805996

00:16:15.625 --> 00:16:16.585 Kluger, and I had a
NOTE Confidence: 0.96805996

00:16:16.585 --> 00:16:17.545 number of questions. And I
NOTE Confidence: 0.96805996

00:16:17.545 --> 00:16:19.330 actually warned nurse Rachel, like,
NOTE Confidence: 0.96805996

00:16:19.330 --> 00:16:19.970 hey. I ask a lot
NOTE Confidence: 0.96805996

00:16:19.970 --> 00:16:20.930 of questions. It's not because
NOTE Confidence: 0.96805996

00:16:20.930 --> 00:16:22.370 I'm trying to be I'm
NOTE Confidence: 0.96805996

00:16:22.370 --> 00:16:23.330 not trying to quiz the
NOTE Confidence: 0.96805996

00:16:23.330 --> 00:16:25.410 doctors. I'm genuinely curious. My
NOTE Confidence: 0.96805996

00:16:25.410 --> 00:16:26.470 life is at stake.
NOTE Confidence: 0.98063266

00:16:26.930 --> 00:16:28.050 I have questions that I
NOTE Confidence: 0.98063266

00:16:28.050 --> 00:16:29.490 need answered, and she welcomed
NOTE Confidence: 0.98063266

00:16:29.490 --> 00:16:30.930 the questions. And doctor Kluger
NOTE Confidence: 0.98063266

00:16:30.930 --> 00:16:32.050 answered every single one of
NOTE Confidence: 0.98063266

00:16:32.050 --> 00:16:33.345 those questions. Because at the

NOTE Confidence: 0.98063266

00:16:33.345 --> 00:16:34.305 same time as I was

NOTE Confidence: 0.98063266

00:16:34.305 --> 00:16:35.605 going through all these naturopathic,

NOTE Confidence: 0.92695314

00:16:36.225 --> 00:16:37.825 practices, I was still dialing

NOTE Confidence: 0.92695314

00:16:37.825 --> 00:16:39.524 into the AIM melanoma foundations,

NOTE Confidence: 0.9944735

00:16:40.225 --> 00:16:41.505 clinics that they would hold.

NOTE Confidence: 0.9944735

00:16:41.505 --> 00:16:42.545 I was keeping track of

NOTE Confidence: 0.9944735

00:16:42.545 --> 00:16:43.584 the research and trying to

NOTE Confidence: 0.9944735

00:16:43.584 --> 00:16:44.785 understand the studies that were

NOTE Confidence: 0.9944735

00:16:44.785 --> 00:16:45.445 coming out.

NOTE Confidence: 0.99595314

00:16:45.920 --> 00:16:47.459 And doctor Kluger was phenomenal.

NOTE Confidence: 0.99595314

00:16:47.519 --> 00:16:48.800 She answered every single one

NOTE Confidence: 0.99595314

00:16:48.800 --> 00:16:49.680 of my questions and was

NOTE Confidence: 0.99595314

00:16:49.680 --> 00:16:50.880 able to tell me why

NOTE Confidence: 0.99595314

00:16:50.880 --> 00:16:51.459 a certain,

NOTE Confidence: 0.9759347

00:16:52.399 --> 00:16:53.920 procedure or a certain treatment

NOTE Confidence: 0.9759347

00:16:53.920 --> 00:16:54.959 was not the ideal one
NOTE Confidence: 0.9759347

00:16:54.959 --> 00:16:56.319 for me or the additional
NOTE Confidence: 0.9759347

00:16:56.319 --> 00:16:57.440 risk that I held. And
NOTE Confidence: 0.9759347

00:16:57.440 --> 00:16:58.800 doctor Olena was wonderful. She
NOTE Confidence: 0.9759347

00:16:58.800 --> 00:16:59.759 came in, and she was
NOTE Confidence: 0.9759347

00:16:59.759 --> 00:17:00.959 very frank with me about
NOTE Confidence: 0.9759347

00:17:00.959 --> 00:17:02.165 the surgery and the potential
NOTE Confidence: 0.9759347

00:17:02.165 --> 00:17:02.905 side effects,
NOTE Confidence: 0.95923567

00:17:03.525 --> 00:17:04.405 but she was also very
NOTE Confidence: 0.95923567

00:17:04.405 --> 00:17:06.325 hopeful. And I left that
NOTE Confidence: 0.95923567

00:17:06.325 --> 00:17:07.685 doctor's appointment for the first
NOTE Confidence: 0.95923567

00:17:07.685 --> 00:17:08.885 time. I didn't cry leaving
NOTE Confidence: 0.95923567

00:17:08.885 --> 00:17:10.244 a doctor's appointment because usually
NOTE Confidence: 0.95923567

00:17:10.244 --> 00:17:11.285 I would I would have
NOTE Confidence: 0.95923567

00:17:11.285 --> 00:17:12.484 such anxiety and have such
NOTE Confidence: 0.95923567

00:17:12.484 --> 00:17:13.845 a bad experience that I'd

NOTE Confidence: 0.95923567
00:17:13.845 --> 00:17:14.965 be shaky and I would
NOTE Confidence: 0.95923567
00:17:14.965 --> 00:17:16.470 cry, and I left feeling
NOTE Confidence: 0.95923567
00:17:16.470 --> 00:17:16.970 hopeful.
NOTE Confidence: 0.97021484
00:17:17.590 --> 00:17:19.109 And that in conjunction with
NOTE Confidence: 0.97021484
00:17:19.109 --> 00:17:20.390 actually getting the full pamphlet
NOTE Confidence: 0.97021484
00:17:20.390 --> 00:17:21.050 of information,
NOTE Confidence: 0.98858774
00:17:21.510 --> 00:17:22.710 I read through it. I
NOTE Confidence: 0.98858774
00:17:22.710 --> 00:17:23.910 understood all the side effects.
NOTE Confidence: 0.98858774
00:17:23.910 --> 00:17:25.670 I felt fully informed enough
NOTE Confidence: 0.98858774
00:17:25.670 --> 00:17:26.950 to make a decision for
NOTE Confidence: 0.98858774
00:17:26.950 --> 00:17:27.990 my treatment for the first
NOTE Confidence: 0.98858774
00:17:27.990 --> 00:17:29.355 time, and that it's, you
NOTE Confidence: 0.98858774
00:17:29.355 --> 00:17:30.475 know, stemmed back to when
NOTE Confidence: 0.98858774
00:17:30.475 --> 00:17:31.355 I first learned I had
NOTE Confidence: 0.98858774
00:17:31.355 --> 00:17:32.635 cancer in January of twenty
NOTE Confidence: 0.98858774

00:17:32.635 --> 00:17:33.375 twenty one.
NOTE Confidence: 0.99820226

00:17:33.835 --> 00:17:35.355 That was incredible for me.
NOTE Confidence: 0.99820226

00:17:35.355 --> 00:17:36.395 That was a life changing
NOTE Confidence: 0.99820226

00:17:36.395 --> 00:17:36.895 experience.
NOTE Confidence: 0.99735516

00:17:37.355 --> 00:17:38.575 So I started immunotherapy.
NOTE Confidence: 0.9987793

00:17:38.955 --> 00:17:39.915 I had the double dose
NOTE Confidence: 0.9987793

00:17:39.915 --> 00:17:40.415 treatment.
NOTE Confidence: 0.9957204

00:17:41.070 --> 00:17:42.429 It started in November. We
NOTE Confidence: 0.9957204

00:17:42.429 --> 00:17:43.630 had planned a family trip
NOTE Confidence: 0.9957204

00:17:43.630 --> 00:17:45.230 to, Germany because it was
NOTE Confidence: 0.9957204

00:17:45.230 --> 00:17:46.270 my lifelong dream, and we
NOTE Confidence: 0.9957204

00:17:46.270 --> 00:17:47.150 weren't sure how much time
NOTE Confidence: 0.9957204

00:17:47.150 --> 00:17:48.029 I had because I was
NOTE Confidence: 0.9957204

00:17:48.029 --> 00:17:49.090 in pretty bad shape.
NOTE Confidence: 0.99690753

00:17:49.390 --> 00:17:50.429 We went to Germany. It
NOTE Confidence: 0.99690753

00:17:50.429 --> 00:17:51.390 was a rough trip,

NOTE Confidence: 0.99121094

00:17:51.710 --> 00:17:52.929 but I'm glad I went.

NOTE Confidence: 0.99121094

00:17:53.105 --> 00:17:54.145 And about a week before

NOTE Confidence: 0.99121094

00:17:54.145 --> 00:17:55.205 the second treatment,

NOTE Confidence: 0.96123046

00:17:55.585 --> 00:17:56.545 I was like, hey. I

NOTE Confidence: 0.96123046

00:17:56.545 --> 00:17:57.425 said to my husband, I

NOTE Confidence: 0.96123046

00:17:57.425 --> 00:17:59.045 think my tumor is shrinking.

NOTE Confidence: 0.96123046

00:17:59.185 --> 00:17:59.905 And he's like, yeah. Of

NOTE Confidence: 0.96123046

00:17:59.905 --> 00:18:00.785 course, it's shrinking. You know?

NOTE Confidence: 0.96123046

00:18:00.785 --> 00:18:01.905 He always had a positive

NOTE Confidence: 0.96123046

00:18:01.905 --> 00:18:03.105 mindset. He was always trying

NOTE Confidence: 0.96123046

00:18:03.105 --> 00:18:04.945 to be my cheerleader. And

NOTE Confidence: 0.96123046

00:18:04.945 --> 00:18:06.065 then, actually, the kind of

NOTE Confidence: 0.96123046

00:18:06.065 --> 00:18:07.345 reaffirming thing is my teenage

NOTE Confidence: 0.96123046

00:18:07.345 --> 00:18:08.145 daughter said, hey, mom. I

NOTE Confidence: 0.96123046

00:18:08.145 --> 00:18:08.970 think your tumor is smaller.

NOTE Confidence: 0.96123046

00:18:08.970 --> 00:18:10.010 And she hadn't heard me
NOTE Confidence: 0.96123046

00:18:10.010 --> 00:18:11.210 say anything, so I knew
NOTE Confidence: 0.96123046

00:18:11.210 --> 00:18:12.410 that, like, something was going
NOTE Confidence: 0.96123046

00:18:12.410 --> 00:18:13.929 on. And with that, no
NOTE Confidence: 0.96123046

00:18:13.929 --> 00:18:14.970 matter the side effects that
NOTE Confidence: 0.96123046

00:18:14.970 --> 00:18:16.410 I was experiencing, I was
NOTE Confidence: 0.96123046

00:18:16.410 --> 00:18:17.290 so hopeful. I was like,
NOTE Confidence: 0.96123046

00:18:17.290 --> 00:18:18.490 I can experience any side
NOTE Confidence: 0.96123046

00:18:18.490 --> 00:18:19.369 effects, and I will get
NOTE Confidence: 0.96123046

00:18:19.369 --> 00:18:20.410 through this because I'm seeing
NOTE Confidence: 0.96123046

00:18:20.410 --> 00:18:20.910 results.
NOTE Confidence: 0.9737643

00:18:21.290 --> 00:18:22.330 For the first time, I'm
NOTE Confidence: 0.9737643

00:18:22.330 --> 00:18:23.530 seeing results, and I just
NOTE Confidence: 0.9737643

00:18:23.530 --> 00:18:24.255 had such hope.
NOTE Confidence: 0.950415

00:18:24.975 --> 00:18:26.435 So I did three doses
NOTE Confidence: 0.950415

00:18:26.494 --> 00:18:28.435 of the double, double treatment.

NOTE Confidence: 0.9877703

00:18:28.815 --> 00:18:30.175 And then the decision was

NOTE Confidence: 0.9877703

00:18:30.175 --> 00:18:31.295 made by doctor Olino and

NOTE Confidence: 0.9877703

00:18:31.295 --> 00:18:32.335 doctor Kluger that it was

NOTE Confidence: 0.9877703

00:18:32.335 --> 00:18:33.155 time for surgery.

NOTE Confidence: 0.97497815

00:18:33.535 --> 00:18:34.975 I had surgery. And then

NOTE Confidence: 0.97497815

00:18:34.975 --> 00:18:35.935 a little while after my

NOTE Confidence: 0.97497815

00:18:35.935 --> 00:18:36.895 surgery, I learned that I

NOTE Confidence: 0.97497815

00:18:36.895 --> 00:18:37.855 had something called, I think,

NOTE Confidence: 0.97497815

00:18:37.855 --> 00:18:39.295 a complete response. Correct me

NOTE Confidence: 0.97497815

00:18:39.295 --> 00:18:41.080 if I'm wrong. Right? So

NOTE Confidence: 0.97497815

00:18:41.080 --> 00:18:42.619 my tumor had shrunk drastically,

NOTE Confidence: 0.97497815

00:18:42.760 --> 00:18:44.039 but what was what had

NOTE Confidence: 0.97497815

00:18:44.039 --> 00:18:45.559 remained had been completely killed

NOTE Confidence: 0.97497815

00:18:45.559 --> 00:18:46.380 by the treatments.

NOTE Confidence: 0.99748886

00:18:47.000 --> 00:18:48.519 I've continued with the single

NOTE Confidence: 0.99748886

00:18:48.519 --> 00:18:49.260 dose treatments,
NOTE Confidence: 0.9829712

00:18:49.720 --> 00:18:50.840 for good measure and because
NOTE Confidence: 0.9829712

00:18:50.840 --> 00:18:52.119 I did have some some,
NOTE Confidence: 0.9829712

00:18:52.119 --> 00:18:53.799 you know, enlargement in the
NOTE Confidence: 0.9829712

00:18:53.799 --> 00:18:55.445 lymph nodes up here. And,
NOTE Confidence: 0.9814453

00:18:56.225 --> 00:18:57.345 today, I had my second
NOTE Confidence: 0.9814453

00:18:57.345 --> 00:18:57.904 to last,
NOTE Confidence: 0.9944458

00:18:58.225 --> 00:19:00.384 immunotherapy treatment, and then I
NOTE Confidence: 0.9944458

00:19:00.384 --> 00:19:02.065 will be being monitored from
NOTE Confidence: 0.9944458

00:19:02.065 --> 00:19:03.424 here. So I just wanna
NOTE Confidence: 0.9944458

00:19:03.424 --> 00:19:03.924 say,
NOTE Confidence: 0.99148643

00:19:05.345 --> 00:19:06.544 I'm I'm thankful for my
NOTE Confidence: 0.99148643

00:19:06.544 --> 00:19:07.664 journey. I'm thankful for the
NOTE Confidence: 0.99148643

00:19:07.664 --> 00:19:08.625 things that I did to
NOTE Confidence: 0.99148643

00:19:08.625 --> 00:19:10.144 improve my overall health because
NOTE Confidence: 0.99148643

00:19:10.144 --> 00:19:11.320 I think they helped, you

NOTE Confidence: 0.99148643

00:19:11.320 --> 00:19:12.840 know, strengthen my immune system

NOTE Confidence: 0.99148643

00:19:12.840 --> 00:19:13.720 and set me up well

NOTE Confidence: 0.99148643

00:19:13.720 --> 00:19:14.760 for the surgery and the

NOTE Confidence: 0.99148643

00:19:14.760 --> 00:19:16.200 treatments that followed. But I

NOTE Confidence: 0.99148643

00:19:16.200 --> 00:19:17.800 am so extremely thankful for

NOTE Confidence: 0.99148643

00:19:17.800 --> 00:19:18.619 doctor Kluger

NOTE Confidence: 0.92419434

00:19:19.000 --> 00:19:20.300 and for doctor Olino

NOTE Confidence: 0.99316406

00:19:20.680 --> 00:19:21.800 for meeting me where I

NOTE Confidence: 0.99316406

00:19:21.800 --> 00:19:23.160 was at. And every patient

NOTE Confidence: 0.99316406

00:19:23.160 --> 00:19:24.119 is different. We all have

NOTE Confidence: 0.99316406

00:19:24.119 --> 00:19:25.160 our own journey, and we

NOTE Confidence: 0.99316406

00:19:25.160 --> 00:19:26.460 all need different things.

NOTE Confidence: 0.98881835

00:19:27.215 --> 00:19:28.575 I went to law school.

NOTE Confidence: 0.98881835

00:19:28.575 --> 00:19:29.775 I'm in the military. I'm

NOTE Confidence: 0.98881835

00:19:29.775 --> 00:19:31.295 trained to read everything to,

NOTE Confidence: 0.98881835

00:19:31.295 --> 00:19:32.975 you know, think critically, advise

NOTE Confidence: 0.98881835

00:19:32.975 --> 00:19:34.415 commanders on risk. So for

NOTE Confidence: 0.98881835

00:19:34.415 --> 00:19:35.615 me, I needed all the

NOTE Confidence: 0.98881835

00:19:35.615 --> 00:19:36.734 information to feel like I

NOTE Confidence: 0.98881835

00:19:36.734 --> 00:19:37.855 could make a well informed

NOTE Confidence: 0.98881835

00:19:37.855 --> 00:19:39.315 decision before I was comfortable.

NOTE Confidence: 0.98424625

00:19:39.799 --> 00:19:40.840 Some patients maybe don't need

NOTE Confidence: 0.98424625

00:19:40.840 --> 00:19:41.880 that. They don't wanna know

NOTE Confidence: 0.98424625

00:19:41.880 --> 00:19:43.000 because maybe it'll bring down

NOTE Confidence: 0.98424625

00:19:43.000 --> 00:19:44.359 their, you know, their mindset.

NOTE Confidence: 0.98424625

00:19:44.359 --> 00:19:45.320 They'll get scared, and they

NOTE Confidence: 0.98424625

00:19:45.320 --> 00:19:46.119 don't wanna know, and they

NOTE Confidence: 0.98424625

00:19:46.119 --> 00:19:46.840 just want that. And I

NOTE Confidence: 0.98424625

00:19:46.840 --> 00:19:47.880 was just so thankful that

NOTE Confidence: 0.98424625

00:19:47.880 --> 00:19:49.240 I finally found doctors who

NOTE Confidence: 0.98424625

00:19:49.240 --> 00:19:50.200 were able to meet me

NOTE Confidence: 0.98424625
00:19:50.200 --> 00:19:51.240 where I was at and
NOTE Confidence: 0.98424625
00:19:51.240 --> 00:19:52.600 make me feel comfortable enough
NOTE Confidence: 0.98424625
00:19:52.600 --> 00:19:53.480 to get the treatment that
NOTE Confidence: 0.98424625
00:19:53.480 --> 00:19:54.605 I needed. And I'm so
NOTE Confidence: 0.98424625
00:19:54.605 --> 00:19:56.525 incredibly hopeful for now the
NOTE Confidence: 0.98424625
00:19:56.525 --> 00:19:57.325 long life that I have
NOTE Confidence: 0.98424625
00:19:57.325 --> 00:19:58.925 ahead of me. Whereas less
NOTE Confidence: 0.98424625
00:19:58.925 --> 00:20:00.125 than six months ago, we
NOTE Confidence: 0.98424625
00:20:00.125 --> 00:20:01.405 were planning a final trip
NOTE Confidence: 0.98424625
00:20:01.405 --> 00:20:02.285 because we weren't sure if
NOTE Confidence: 0.98424625
00:20:02.285 --> 00:20:03.325 I was gonna make it.
NOTE Confidence: 0.98424625
00:20:03.325 --> 00:20:05.025 So thank you very much.
NOTE Confidence: 0.7416992
00:20:19.770 --> 00:20:20.984 That that I have a
NOTE Confidence: 0.7416992
00:20:20.984 --> 00:20:22.905 collection of that interaction for
NOTE Confidence: 0.7416992
00:20:22.905 --> 00:20:25.325 something completely different. See,
NOTE Confidence: 0.95187175

00:20:25.705 --> 00:20:26.984 I saw a lit you're
NOTE Confidence: 0.95187175

00:20:26.984 --> 00:20:28.345 a lieutenant. What's your rank?
NOTE Confidence: 0.95187175

00:20:28.345 --> 00:20:29.785 Walk into my office and
NOTE Confidence: 0.95187175

00:20:29.785 --> 00:20:30.744 tell me what was gonna
NOTE Confidence: 0.95187175

00:20:30.744 --> 00:20:32.025 happen. I didn't see an
NOTE Confidence: 0.95187175

00:20:32.025 --> 00:20:33.885 anxious lady who was nervous.
NOTE Confidence: 0.9096578

00:20:35.000 --> 00:20:36.040 Andy, I guess we just
NOTE Confidence: 0.9096578

00:20:36.040 --> 00:20:37.000 have a different read on
NOTE Confidence: 0.9096578

00:20:37.000 --> 00:20:37.740 that reality.
NOTE Confidence: 0.7824707

00:20:38.119 --> 00:20:38.619 Okay.
NOTE Confidence: 0.9785822

00:20:40.440 --> 00:20:41.560 That's why the surgeon got
NOTE Confidence: 0.9785822

00:20:41.560 --> 00:20:42.600 along really well with the
NOTE Confidence: 0.9785822

00:20:42.600 --> 00:20:43.100 military.
NOTE Confidence: 0.9258045

00:20:47.895 --> 00:20:50.135 Poor doctor Levinthal now has
NOTE Confidence: 0.9258045

00:20:50.135 --> 00:20:50.955 the unenviable
NOTE Confidence: 0.98535156

00:20:52.695 --> 00:20:53.915 to follow with this.

NOTE Confidence: 0.94827735

00:20:59.655 --> 00:21:00.880 Wow. I mean, that's really

NOTE Confidence: 0.94827735

00:21:00.880 --> 00:21:03.040 an inspiring story, and, thank

NOTE Confidence: 0.94827735

00:21:03.040 --> 00:21:04.320 you for sharing. And that's

NOTE Confidence: 0.94827735

00:21:04.320 --> 00:21:05.359 why we love what we

NOTE Confidence: 0.94827735

00:21:05.359 --> 00:21:06.240 do and being on our

NOTE Confidence: 0.94827735

00:21:06.240 --> 00:21:08.000 team here. So I'm John

NOTE Confidence: 0.94827735

00:21:08.000 --> 00:21:09.840 Leventhal. I'm a dermatologist at

NOTE Confidence: 0.94827735

00:21:09.840 --> 00:21:11.380 Smilo. I lead the Oncoderma

NOTE Confidence: 0.94827735

00:21:11.520 --> 00:21:12.895 Clinic. So I'm gonna get

NOTE Confidence: 0.94827735

00:21:12.895 --> 00:21:14.175 us started by going over

NOTE Confidence: 0.94827735

00:21:14.175 --> 00:21:15.215 many things that you probably

NOTE Confidence: 0.94827735

00:21:15.215 --> 00:21:16.975 already know, the diagnosis, risk

NOTE Confidence: 0.94827735

00:21:16.975 --> 00:21:18.815 factors, prevention, and screening of

NOTE Confidence: 0.94827735

00:21:18.815 --> 00:21:19.315 melanoma.

NOTE Confidence: 0.98349965

00:21:19.855 --> 00:21:20.895 You already heard a few

NOTE Confidence: 0.98349965

00:21:20.895 --> 00:21:22.415 key facts earlier, but skin
NOTE Confidence: 0.98349965

00:21:22.415 --> 00:21:24.015 cancer is the number one
NOTE Confidence: 0.98349965

00:21:24.015 --> 00:21:25.535 cancer in the United States.
NOTE Confidence: 0.98349965

00:21:25.535 --> 00:21:26.815 Melanoma is the fifth most
NOTE Confidence: 0.98349965

00:21:26.815 --> 00:21:28.580 common. And while basal cell
NOTE Confidence: 0.98349965

00:21:28.580 --> 00:21:29.859 and squamous account for the
NOTE Confidence: 0.98349965

00:21:29.859 --> 00:21:31.800 majority, melanoma is the deadliest
NOTE Confidence: 0.98349965

00:21:31.859 --> 00:21:32.359 form
NOTE Confidence: 0.73791504

00:21:32.740 --> 00:21:33.220 and,
NOTE Confidence: 0.968976

00:21:33.540 --> 00:21:34.580 over a million people live
NOTE Confidence: 0.968976

00:21:34.580 --> 00:21:35.540 with it, and we see
NOTE Confidence: 0.968976

00:21:35.540 --> 00:21:36.980 it every day. So what
NOTE Confidence: 0.968976

00:21:36.980 --> 00:21:39.160 is melanoma? Melanoma is specifically
NOTE Confidence: 0.968976

00:21:39.300 --> 00:21:40.815 a tumor, a cancer of
NOTE Confidence: 0.968976

00:21:40.815 --> 00:21:42.095 the cells that give our
NOTE Confidence: 0.968976

00:21:42.095 --> 00:21:43.375 body pigment. Those are called

NOTE Confidence: 0.968976
00:21:43.375 --> 00:21:43.875 melanocytes.
NOTE Confidence: 0.96909386
00:21:44.815 --> 00:21:46.174 And most cases occur on
NOTE Confidence: 0.96909386
00:21:46.174 --> 00:21:48.095 the skin in areas that
NOTE Confidence: 0.96909386
00:21:48.095 --> 00:21:49.455 are completely normal and then
NOTE Confidence: 0.96909386
00:21:49.455 --> 00:21:51.695 just develop. Some melanomas occur
NOTE Confidence: 0.96909386
00:21:51.695 --> 00:21:54.014 from an atypical birthmark or
NOTE Confidence: 0.96909386
00:21:54.014 --> 00:21:55.294 a mole that changes over
NOTE Confidence: 0.96909386
00:21:55.294 --> 00:21:55.710 time.
NOTE Confidence: 0.9975586
00:21:56.270 --> 00:21:57.570 So who develops melanoma?
NOTE Confidence: 0.99558914
00:21:58.190 --> 00:22:00.109 Anyone can develop melanoma. I
NOTE Confidence: 0.99558914
00:22:00.109 --> 00:22:01.890 have patients who are young,
NOTE Confidence: 0.9490424
00:22:02.429 --> 00:22:04.190 over a hundred, all genders,
NOTE Confidence: 0.9490424
00:22:04.190 --> 00:22:04.690 ethnicities.
NOTE Confidence: 0.9642452
00:22:05.309 --> 00:22:07.010 The majority of people statistically
NOTE Confidence: 0.9642452
00:22:07.309 --> 00:22:08.775 are older white men over
NOTE Confidence: 0.9642452

00:22:08.855 --> 00:22:10.775 age fifty. Under age fifty,
NOTE Confidence: 0.9642452

00:22:10.775 --> 00:22:11.975 more women than men tend
NOTE Confidence: 0.9642452

00:22:11.975 --> 00:22:13.655 to have melanoma probably due
NOTE Confidence: 0.9642452

00:22:13.655 --> 00:22:14.855 to tanning habits, but by
NOTE Confidence: 0.9642452

00:22:14.855 --> 00:22:15.355 age
NOTE Confidence: 0.96638995

00:22:15.655 --> 00:22:17.095 sixty five plus, more men
NOTE Confidence: 0.96638995

00:22:17.095 --> 00:22:17.994 have it than women.
NOTE Confidence: 0.9849414

00:22:18.375 --> 00:22:19.175 And as you can see
NOTE Confidence: 0.9849414

00:22:19.175 --> 00:22:20.535 in this chart, it's really
NOTE Confidence: 0.9849414

00:22:20.535 --> 00:22:22.215 incredible. The lifetime risk in
NOTE Confidence: 0.9849414

00:22:22.215 --> 00:22:23.915 the United States has dramatically
NOTE Confidence: 0.9849414

00:22:24.135 --> 00:22:25.970 increased over the past decades.
NOTE Confidence: 0.919329

00:22:26.350 --> 00:22:27.869 And currently, it's probably about
NOTE Confidence: 0.919329

00:22:27.869 --> 00:22:29.010 one in,
NOTE Confidence: 0.9736328

00:22:29.470 --> 00:22:29.970 probably,
NOTE Confidence: 0.8417969

00:22:30.430 --> 00:22:31.550 forty has happened in two

NOTE Confidence: 0.8417969
00:22:31.550 --> 00:22:32.690 thousand twenty six.
NOTE Confidence: 0.9987305
00:22:32.990 --> 00:22:34.690 So let's go over melanoma.
NOTE Confidence: 0.6303711
00:22:35.070 --> 00:22:35.570 So
NOTE Confidence: 0.9457751
00:22:35.869 --> 00:22:36.670 what do we do to
NOTE Confidence: 0.9457751
00:22:36.670 --> 00:22:38.190 diagnose it? So step one
NOTE Confidence: 0.9457751
00:22:38.190 --> 00:22:39.390 and the most important step,
NOTE Confidence: 0.9457751
00:22:39.390 --> 00:22:40.450 well, some of these
NOTE Confidence: 0.9834527
00:22:40.905 --> 00:22:42.185 slides aren't coming out, but
NOTE Confidence: 0.9834527
00:22:42.185 --> 00:22:43.645 that's okay, is identifying
NOTE Confidence: 0.9838781
00:22:44.105 --> 00:22:45.705 a concerning lesion, and that's
NOTE Confidence: 0.9838781
00:22:45.705 --> 00:22:47.065 really the most important step
NOTE Confidence: 0.9838781
00:22:47.065 --> 00:22:48.185 here. So we have to
NOTE Confidence: 0.9838781
00:22:48.185 --> 00:22:49.325 know what does melanoma
NOTE Confidence: 0.9526367
00:22:49.945 --> 00:22:50.685 look like.
NOTE Confidence: 0.9687422
00:22:51.705 --> 00:22:53.065 So it's very important to
NOTE Confidence: 0.9687422

00:22:53.065 --> 00:22:53.785 go over the a, b,
NOTE Confidence: 0.9687422

00:22:53.785 --> 00:22:54.840 c, d, e's. You're You're
NOTE Confidence: 0.9687422

00:22:54.840 --> 00:22:56.380 probably familiar with it. A,
NOTE Confidence: 0.9687422

00:22:56.440 --> 00:22:56.940 asymmetrical.
NOTE Confidence: 0.91970485

00:22:57.720 --> 00:22:59.720 B, the border's irregular. C,
NOTE Confidence: 0.91970485

00:22:59.720 --> 00:23:00.940 the color is varied.
NOTE Confidence: 0.9779053

00:23:01.400 --> 00:23:02.919 D, I don't like diameter
NOTE Confidence: 0.9779053

00:23:02.919 --> 00:23:04.359 pencil tip eraser because I've
NOTE Confidence: 0.9779053

00:23:04.359 --> 00:23:06.140 diagnosed some teeny tiny melanomas.
NOTE Confidence: 0.9779053

00:23:06.359 --> 00:23:07.720 So I prefer dark because
NOTE Confidence: 0.9779053

00:23:07.720 --> 00:23:09.179 the vast majority of melanomas
NOTE Confidence: 0.9779053

00:23:09.320 --> 00:23:10.575 that I find are dark.
NOTE Confidence: 0.9779053

00:23:10.654 --> 00:23:11.455 Not not all of them,
NOTE Confidence: 0.9779053

00:23:11.455 --> 00:23:12.575 but most of them. And
NOTE Confidence: 0.9779053

00:23:12.575 --> 00:23:13.774 e is probably the most
NOTE Confidence: 0.9779053

00:23:13.774 --> 00:23:15.315 important one, and that's evolution.

NOTE Confidence: 1

00:23:15.695 --> 00:23:16.755 So the lesion

NOTE Confidence: 0.9740693

00:23:17.294 --> 00:23:18.335 changes in any way, and

NOTE Confidence: 0.9740693

00:23:18.335 --> 00:23:19.774 patients are really good at

NOTE Confidence: 0.9740693

00:23:19.774 --> 00:23:20.654 coming in and saying, you

NOTE Confidence: 0.9740693

00:23:20.654 --> 00:23:21.855 know, doc? Something's a little

NOTE Confidence: 0.9740693

00:23:21.855 --> 00:23:23.375 bit different about this mole.

NOTE Confidence: 0.9740693

00:23:23.375 --> 00:23:24.975 And trusting that patient intuition

NOTE Confidence: 0.9740693

00:23:24.975 --> 00:23:25.955 is really key.

NOTE Confidence: 0.9885205

00:23:27.030 --> 00:23:28.230 And so what do melanomas

NOTE Confidence: 0.9885205

00:23:28.230 --> 00:23:30.090 look like? So the superficial

NOTE Confidence: 0.9885205

00:23:30.230 --> 00:23:31.190 spreading, these are the most

NOTE Confidence: 0.9885205

00:23:31.190 --> 00:23:32.710 common types of melanomas. They're

NOTE Confidence: 0.9885205

00:23:32.710 --> 00:23:34.710 atypical pigmented lesions. You can

NOTE Confidence: 0.9885205

00:23:34.710 --> 00:23:35.750 see these are some really

NOTE Confidence: 0.9885205

00:23:35.750 --> 00:23:37.030 classic ones that are pretty

NOTE Confidence: 0.9885205

00:23:37.030 --> 00:23:38.150 tough to miss. Right? They

NOTE Confidence: 0.9885205

00:23:38.150 --> 00:23:39.590 really obey all the a,

NOTE Confidence: 0.9885205

00:23:39.590 --> 00:23:40.970 b, c, d, e rules.

NOTE Confidence: 0.9932455

00:23:41.355 --> 00:23:42.494 Nodular melanomas,

NOTE Confidence: 0.9785202

00:23:42.955 --> 00:23:43.755 this is a kind of

NOTE Confidence: 0.9785202

00:23:43.755 --> 00:23:45.355 an aggressive type. They grow

NOTE Confidence: 0.9785202

00:23:45.355 --> 00:23:46.715 fast. Patients will come in

NOTE Confidence: 0.9785202

00:23:46.715 --> 00:23:47.835 and say, this thing just

NOTE Confidence: 0.9785202

00:23:47.835 --> 00:23:48.635 showed up a few months

NOTE Confidence: 0.9785202

00:23:48.635 --> 00:23:50.175 ago. It's growing really fast.

NOTE Confidence: 0.9785202

00:23:50.234 --> 00:23:51.535 These are the ones that

NOTE Confidence: 0.9785202

00:23:51.595 --> 00:23:52.795 you can't just wait for

NOTE Confidence: 0.9785202

00:23:52.795 --> 00:23:54.970 your yearly dermatology visit because

NOTE Confidence: 0.9785202

00:23:54.970 --> 00:23:55.850 you're gonna come in with

NOTE Confidence: 0.9785202

00:23:55.850 --> 00:23:56.830 a thick melanoma.

NOTE Confidence: 0.9547827

00:23:57.210 --> 00:23:58.970 Lentigo maligna, we see these

NOTE Confidence: 0.9547827

00:23:58.970 --> 00:24:00.570 in mostly elderly patients with

NOTE Confidence: 0.9547827

00:24:00.570 --> 00:24:01.850 lots of lentigos. Those are

NOTE Confidence: 0.9547827

00:24:01.850 --> 00:24:04.090 sunspots, and these melanomas arise

NOTE Confidence: 0.9547827

00:24:04.090 --> 00:24:05.850 in these in these chronic

NOTE Confidence: 0.9547827

00:24:05.850 --> 00:24:08.029 sun damaged areas. Now amelanotic,

NOTE Confidence: 0.93914473

00:24:08.490 --> 00:24:09.529 this is always a tough

NOTE Confidence: 0.93914473

00:24:09.529 --> 00:24:10.169 one. And I have a

NOTE Confidence: 0.93914473

00:24:10.169 --> 00:24:11.025 lot of patients that will

NOTE Confidence: 0.93914473

00:24:11.025 --> 00:24:12.085 come in and say,

NOTE Confidence: 0.98649085

00:24:12.465 --> 00:24:13.205 my dermatologist,

NOTE Confidence: 0.9775298

00:24:13.665 --> 00:24:14.625 you know, before seeing you

NOTE Confidence: 0.9775298

00:24:14.625 --> 00:24:15.665 thought it was a pimple.

NOTE Confidence: 0.9775298

00:24:15.665 --> 00:24:16.865 It was pink. It wasn't

NOTE Confidence: 0.9775298

00:24:16.865 --> 00:24:18.065 dark. They thought it was

NOTE Confidence: 0.9775298

00:24:18.065 --> 00:24:19.505 a basal cell. So these

NOTE Confidence: 0.9775298

00:24:19.505 --> 00:24:21.185 are not the most common
NOTE Confidence: 0.9775298

00:24:21.185 --> 00:24:22.785 presentations, but we see these.
NOTE Confidence: 0.9775298

00:24:22.785 --> 00:24:23.309 So this is kind of
NOTE Confidence: 0.9775298

00:24:23.309 --> 00:24:24.350 the rule I was mentioning
NOTE Confidence: 0.9775298

00:24:24.350 --> 00:24:25.549 earlier. If there's something on
NOTE Confidence: 0.9775298

00:24:25.549 --> 00:24:27.149 your skin that's changing, evolving,
NOTE Confidence: 0.9775298

00:24:27.149 --> 00:24:28.109 just doesn't seem right to
NOTE Confidence: 0.9775298

00:24:28.109 --> 00:24:29.390 you, a sore that's not
NOTE Confidence: 0.9775298

00:24:29.390 --> 00:24:30.350 healing, you should see a
NOTE Confidence: 0.9775298

00:24:30.350 --> 00:24:30.850 dermatologist.
NOTE Confidence: 0.98078877

00:24:31.470 --> 00:24:32.690 And then there's the melanomas
NOTE Confidence: 0.98078877

00:24:32.830 --> 00:24:34.109 that don't happen in areas
NOTE Confidence: 0.98078877

00:24:34.109 --> 00:24:35.470 with sun. They happen on
NOTE Confidence: 0.98078877

00:24:35.470 --> 00:24:36.990 the palms, the soles, under
NOTE Confidence: 0.98078877

00:24:36.990 --> 00:24:38.365 the nails. These are called
NOTE Confidence: 0.98078877

00:24:38.365 --> 00:24:40.044 aqual indigenous, and we see

NOTE Confidence: 0.98078877

00:24:40.044 --> 00:24:41.965 these predominantly in patients with

NOTE Confidence: 0.98078877

00:24:41.965 --> 00:24:43.085 darker skin types, but not

NOTE Confidence: 0.98078877

00:24:43.085 --> 00:24:45.025 always. The nail band melanoma,

NOTE Confidence: 0.98259276

00:24:46.365 --> 00:24:47.325 it it starts in the

NOTE Confidence: 0.98259276

00:24:47.325 --> 00:24:48.605 nail matrix, and it grows

NOTE Confidence: 0.98259276

00:24:48.605 --> 00:24:50.044 upward like a black band.

NOTE Confidence: 0.98259276

00:24:50.044 --> 00:24:51.184 So many of my patients,

NOTE Confidence: 0.97053456

00:24:51.510 --> 00:24:52.550 after seeing this talk, come

NOTE Confidence: 0.97053456

00:24:52.550 --> 00:24:53.670 in with a little blood

NOTE Confidence: 0.97053456

00:24:53.670 --> 00:24:54.550 spot under their nail and

NOTE Confidence: 0.97053456

00:24:54.550 --> 00:24:55.770 say, doc, I have melanoma.

NOTE Confidence: 0.97053456

00:24:55.830 --> 00:24:56.630 No. So not like a

NOTE Confidence: 0.97053456

00:24:56.630 --> 00:24:58.150 little red streak of blood,

NOTE Confidence: 0.97053456

00:24:58.150 --> 00:24:59.670 but a dark pigmented lesion

NOTE Confidence: 0.97053456

00:24:59.670 --> 00:25:00.710 that's a band in the

NOTE Confidence: 0.97053456

00:25:00.710 --> 00:25:01.450 nail fold.
NOTE Confidence: 1
00:25:01.830 --> 00:25:02.330 So
NOTE Confidence: 0.9773394
00:25:02.790 --> 00:25:03.975 what do we do next?
NOTE Confidence: 0.9773394
00:25:04.054 --> 00:25:05.174 We we obtain a skin
NOTE Confidence: 0.9773394
00:25:05.174 --> 00:25:07.255 biopsy. That's step two. And
NOTE Confidence: 0.9773394
00:25:07.255 --> 00:25:08.375 this is really easy for
NOTE Confidence: 0.9773394
00:25:08.375 --> 00:25:09.975 dermatologists to do. I could
NOTE Confidence: 0.9773394
00:25:09.975 --> 00:25:11.174 do it in thirty seconds
NOTE Confidence: 0.9773394
00:25:11.174 --> 00:25:12.215 probably. It just takes a
NOTE Confidence: 0.9773394
00:25:12.215 --> 00:25:13.815 couple minutes. And the type
NOTE Confidence: 0.9773394
00:25:13.815 --> 00:25:14.934 of biopsy is really not
NOTE Confidence: 0.9773394
00:25:14.934 --> 00:25:16.054 that important. Most of the
NOTE Confidence: 0.9773394
00:25:16.054 --> 00:25:16.934 time, we do a shave
NOTE Confidence: 0.9773394
00:25:16.934 --> 00:25:18.520 biopsy. But the important thing
NOTE Confidence: 0.9773394
00:25:18.520 --> 00:25:19.720 is having it read by
NOTE Confidence: 0.9773394
00:25:19.720 --> 00:25:20.920 a good pathologist. We have

NOTE Confidence: 0.9773394
00:25:20.920 --> 00:25:22.040 the best pathologist in the
NOTE Confidence: 0.9773394
00:25:22.040 --> 00:25:23.560 world here at Yale, and
NOTE Confidence: 0.9773394
00:25:23.560 --> 00:25:24.760 they're able to make the
NOTE Confidence: 0.9773394
00:25:24.760 --> 00:25:25.260 diagnosis.
NOTE Confidence: 0.9976671
00:25:25.560 --> 00:25:26.920 And the pathologist will also
NOTE Confidence: 0.9976671
00:25:26.920 --> 00:25:28.119 tell you how thick the
NOTE Confidence: 0.9976671
00:25:28.119 --> 00:25:29.880 melanoma tumor is, which is
NOTE Confidence: 0.9976671
00:25:29.880 --> 00:25:30.780 such an important,
NOTE Confidence: 0.96972656
00:25:31.400 --> 00:25:31.900 determinant
NOTE Confidence: 0.96921116
00:25:32.520 --> 00:25:34.595 of how of of survival
NOTE Confidence: 0.96921116
00:25:34.655 --> 00:25:35.155 prognosis.
NOTE Confidence: 0.9582455
00:25:35.615 --> 00:25:37.615 Majority of melanomas are thin
NOTE Confidence: 0.9582455
00:25:37.615 --> 00:25:39.215 stage one. Patients have, you
NOTE Confidence: 0.9582455
00:25:39.215 --> 00:25:40.335 know, close to ninety nine
NOTE Confidence: 0.9582455
00:25:40.335 --> 00:25:42.035 percent survival, good outcomes.
NOTE Confidence: 0.99880147

00:25:42.815 --> 00:25:44.415 So let's keep moving. So
NOTE Confidence: 0.99880147

00:25:44.415 --> 00:25:46.095 next is risk factors and
NOTE Confidence: 0.99880147

00:25:46.095 --> 00:25:46.595 prevention.
NOTE Confidence: 0.9458008

00:25:47.170 --> 00:25:48.390 So like any cancer,
NOTE Confidence: 0.9959717

00:25:48.690 --> 00:25:49.830 melanoma has,
NOTE Confidence: 0.9729492

00:25:50.210 --> 00:25:52.150 risk factors that are environmental,
NOTE Confidence: 0.99640447

00:25:52.690 --> 00:25:53.970 that we can modify, and
NOTE Confidence: 0.99640447

00:25:53.970 --> 00:25:55.490 has risk factors that are
NOTE Confidence: 0.99640447

00:25:55.490 --> 00:25:55.990 genetic
NOTE Confidence: 0.9721194

00:25:56.369 --> 00:25:58.470 and that we cannot, prevent.
NOTE Confidence: 0.9721194

00:25:58.530 --> 00:25:59.570 Sorry some of these slides
NOTE Confidence: 0.9721194

00:25:59.570 --> 00:26:00.955 didn't come out when, I
NOTE Confidence: 0.9721194

00:26:00.955 --> 00:26:03.195 sent the email. So this
NOTE Confidence: 0.9721194

00:26:03.195 --> 00:26:04.635 slide is showing you, you
NOTE Confidence: 0.9721194

00:26:04.635 --> 00:26:05.355 can guess what's in the
NOTE Confidence: 0.9721194

00:26:05.355 --> 00:26:07.435 middle, ultraviolet radiation from the

NOTE Confidence: 0.9721194
00:26:07.435 --> 00:26:08.715 sun. So that's the number
NOTE Confidence: 0.9721194
00:26:08.715 --> 00:26:10.635 one risk factor. So ultraviolet
NOTE Confidence: 0.9721194
00:26:10.635 --> 00:26:12.875 radiation hits the Earth's surface.
NOTE Confidence: 0.9721194
00:26:12.875 --> 00:26:14.395 Ultraviolet c is pretty much
NOTE Confidence: 0.9721194
00:26:14.395 --> 00:26:16.030 blocked by the ozone, but
NOTE Confidence: 0.9721194
00:26:16.030 --> 00:26:18.190 UVA and UVB penetrate the
NOTE Confidence: 0.9721194
00:26:18.190 --> 00:26:20.109 Earth's surface. UVA can also
NOTE Confidence: 0.9721194
00:26:20.109 --> 00:26:21.950 penetrate car glass windows. And
NOTE Confidence: 0.9721194
00:26:21.950 --> 00:26:23.330 what happens is these ultraviolet
NOTE Confidence: 0.9721194
00:26:23.390 --> 00:26:24.830 rays from the sun cause
NOTE Confidence: 0.9721194
00:26:24.830 --> 00:26:26.430 damage in our DNA in
NOTE Confidence: 0.9721194
00:26:26.430 --> 00:26:27.869 the skin, and as the
NOTE Confidence: 0.9721194
00:26:27.869 --> 00:26:29.330 DNA damage mutations,
NOTE Confidence: 0.9786377
00:26:30.415 --> 00:26:31.234 over time,
NOTE Confidence: 0.77124023
00:26:32.415 --> 00:26:32.915 develop,
NOTE Confidence: 0.99658203

00:26:33.295 --> 00:26:34.115 skin cancer
NOTE Confidence: 0.9593913

00:26:34.575 --> 00:26:35.395 forms. And, unfortunately,
NOTE Confidence: 0.9998047

00:26:35.935 --> 00:26:37.795 the type of ultraviolet exposure
NOTE Confidence: 1

00:26:38.255 --> 00:26:39.234 that is
NOTE Confidence: 1

00:26:39.695 --> 00:26:40.755 the most detrimental
NOTE Confidence: 0.9642421

00:26:41.135 --> 00:26:42.095 is the type we love
NOTE Confidence: 0.9642421

00:26:42.095 --> 00:26:43.690 the most. You know, sunny
NOTE Confidence: 0.9642421

00:26:43.690 --> 00:26:45.370 vacations at the beach, short,
NOTE Confidence: 0.9642421

00:26:45.370 --> 00:26:47.690 intense bursts of ultraviolet. And
NOTE Confidence: 0.9642421

00:26:47.690 --> 00:26:49.530 the majority of melanomas are
NOTE Confidence: 0.9642421

00:26:49.530 --> 00:26:50.670 attributed to to,
NOTE Confidence: 0.9941406

00:26:51.290 --> 00:26:52.430 ultraviolet radiation.
NOTE Confidence: 0.98754317

00:26:53.130 --> 00:26:54.330 And we know that sunburns
NOTE Confidence: 0.98754317

00:26:54.330 --> 00:26:55.935 in childhood matter a lot,
NOTE Confidence: 0.98754317

00:26:56.095 --> 00:26:57.135 but it's really the data
NOTE Confidence: 0.98754317

00:26:57.135 --> 00:26:58.895 shows it's cumulative sunburns. I

NOTE Confidence: 0.98754317
00:26:58.895 --> 00:27:00.095 have many patients that say,
NOTE Confidence: 0.98754317
00:27:00.095 --> 00:27:01.855 doc, I'm probably already in
NOTE Confidence: 0.98754317
00:27:01.855 --> 00:27:03.055 trouble. I burned a lot.
NOTE Confidence: 0.98754317
00:27:03.055 --> 00:27:03.855 I should just live out
NOTE Confidence: 0.98754317
00:27:03.855 --> 00:27:05.135 my life and enjoy myself
NOTE Confidence: 0.98754317
00:27:05.135 --> 00:27:06.335 in the sun. I say,
NOTE Confidence: 0.98754317
00:27:06.335 --> 00:27:08.015 yes. Your childhood sunburns hurt
NOTE Confidence: 0.98754317
00:27:08.015 --> 00:27:09.270 you, but we know from
NOTE Confidence: 0.98754317
00:27:09.270 --> 00:27:10.970 the data it's really cumulative
NOTE Confidence: 0.98754317
00:27:11.190 --> 00:27:12.710 sun damage. So you can
NOTE Confidence: 0.98754317
00:27:12.710 --> 00:27:14.470 reduce the total burden of
NOTE Confidence: 0.98754317
00:27:14.470 --> 00:27:16.310 ultraviolet damage. You can reduce
NOTE Confidence: 0.98754317
00:27:16.310 --> 00:27:17.609 the future risk of developing
NOTE Confidence: 0.98754317
00:27:17.670 --> 00:27:18.170 melanoma.
NOTE Confidence: 0.9668413
00:27:18.470 --> 00:27:19.830 We also know that tanning
NOTE Confidence: 0.9668413

00:27:19.830 --> 00:27:21.510 beds are a major risk
NOTE Confidence: 0.9668413

00:27:21.510 --> 00:27:22.010 factor.
NOTE Confidence: 0.9631653

00:27:22.325 --> 00:27:23.605 Studies have shown that young
NOTE Confidence: 0.9631653

00:27:23.605 --> 00:27:24.825 women in particular,
NOTE Confidence: 0.9669367

00:27:25.684 --> 00:27:26.565 they did a study, had
NOTE Confidence: 0.9669367

00:27:26.565 --> 00:27:27.765 a six fold increased risk
NOTE Confidence: 0.9669367

00:27:27.765 --> 00:27:29.845 of developing melanoma. In Connecticut,
NOTE Confidence: 0.9669367

00:27:29.845 --> 00:27:31.365 it's actually banned now, indoor
NOTE Confidence: 0.9669367

00:27:31.365 --> 00:27:33.365 tanning for minors. Many states,
NOTE Confidence: 0.9669367

00:27:33.605 --> 00:27:34.885 minors can still do indoor
NOTE Confidence: 0.9669367

00:27:34.885 --> 00:27:35.609 tanning beds.
NOTE Confidence: 0.9827983

00:27:36.170 --> 00:27:37.450 A question I get asked
NOTE Confidence: 0.9827983

00:27:37.450 --> 00:27:38.490 a lot. What about spray
NOTE Confidence: 0.9827983

00:27:38.490 --> 00:27:39.609 tan? Is that gonna cause
NOTE Confidence: 0.9827983

00:27:39.609 --> 00:27:40.109 melanoma?
NOTE Confidence: 0.9705957

00:27:40.410 --> 00:27:41.850 So spray tanning is okay.

NOTE Confidence: 0.9705957
00:27:41.850 --> 00:27:42.809 You just don't wanna overdo
NOTE Confidence: 0.9705957
00:27:42.809 --> 00:27:43.609 it and look like a
NOTE Confidence: 0.9705957
00:27:43.609 --> 00:27:45.390 carrot, like Ross from Friends.
NOTE Confidence: 0.9705957
00:27:45.609 --> 00:27:47.309 But spray tanning is fine.
NOTE Confidence: 0.9991862
00:27:47.885 --> 00:27:48.765 So let's go over the
NOTE Confidence: 0.9991862
00:27:48.765 --> 00:27:50.205 risk factors that we,
NOTE Confidence: 0.98199594
00:27:50.605 --> 00:27:51.645 can change. These are these
NOTE Confidence: 0.98199594
00:27:51.645 --> 00:27:53.025 are the genetic risk factors.
NOTE Confidence: 0.98199594
00:27:53.244 --> 00:27:54.685 And, again, my apologies about
NOTE Confidence: 0.98199594
00:27:54.685 --> 00:27:57.085 the slides, but having over
NOTE Confidence: 0.98199594
00:27:57.085 --> 00:27:58.285 a hundred moles is a
NOTE Confidence: 0.98199594
00:27:58.285 --> 00:28:00.785 risk factor. Having atypical moles,
NOTE Confidence: 0.995064
00:28:01.109 --> 00:28:02.630 having lots of sunspots, all
NOTE Confidence: 0.995064
00:28:02.630 --> 00:28:03.590 of these are risk factors
NOTE Confidence: 0.995064
00:28:03.590 --> 00:28:04.730 for developing melanoma.
NOTE Confidence: 0.99591935

00:28:05.190 --> 00:28:06.150 And you can see the
NOTE Confidence: 0.99591935

00:28:06.150 --> 00:28:07.050 difference between,
NOTE Confidence: 0.99902344

00:28:07.670 --> 00:28:08.950 skin that has never seen
NOTE Confidence: 0.99902344

00:28:08.950 --> 00:28:09.609 the sun
NOTE Confidence: 0.97373044

00:28:09.910 --> 00:28:11.270 versus skin that has seen
NOTE Confidence: 0.97373044

00:28:11.270 --> 00:28:12.710 the sun underneath, all these,
NOTE Confidence: 0.9539657

00:28:13.030 --> 00:28:15.274 sunspots and formation of, these
NOTE Confidence: 0.9539657

00:28:15.274 --> 00:28:16.715 these these lentigels, we call
NOTE Confidence: 0.9539657

00:28:16.715 --> 00:28:18.154 them. We also know that
NOTE Confidence: 0.9539657

00:28:18.154 --> 00:28:19.515 having light skin, light hair,
NOTE Confidence: 0.9539657

00:28:19.515 --> 00:28:20.955 blue eyes, freckles, all of
NOTE Confidence: 0.9539657

00:28:20.955 --> 00:28:22.075 that increases a risk of
NOTE Confidence: 0.9539657

00:28:22.075 --> 00:28:22.575 melanoma.
NOTE Confidence: 0.9996745

00:28:22.955 --> 00:28:23.674 And a lot of our
NOTE Confidence: 0.9996745

00:28:23.674 --> 00:28:25.195 patients with melanoma have these
NOTE Confidence: 0.9996745

00:28:25.195 --> 00:28:25.934 risk factors.

NOTE Confidence: 0.9871395
00:28:26.234 --> 00:28:27.355 So if you look in
NOTE Confidence: 0.9871395
00:28:27.355 --> 00:28:28.075 the mirror and if you
NOTE Confidence: 0.9871395
00:28:28.075 --> 00:28:28.875 look a little bit like
NOTE Confidence: 0.9871395
00:28:28.875 --> 00:28:29.755 Julianne Moore, which is a
NOTE Confidence: 0.9871395
00:28:29.755 --> 00:28:30.750 great thing, you should be
NOTE Confidence: 0.9871395
00:28:30.750 --> 00:28:32.350 ultra, you know, protective of
NOTE Confidence: 0.9871395
00:28:32.350 --> 00:28:33.410 yourself in the sun.
NOTE Confidence: 0.97788846
00:28:34.030 --> 00:28:35.390 And then there's genetics, and
NOTE Confidence: 0.97788846
00:28:35.390 --> 00:28:36.910 we can change our genetics.
NOTE Confidence: 0.97788846
00:28:36.910 --> 00:28:37.950 Right? But it's important to
NOTE Confidence: 0.97788846
00:28:37.950 --> 00:28:39.390 know about it. If you've
NOTE Confidence: 0.97788846
00:28:39.390 --> 00:28:40.590 had a skin cancer, you
NOTE Confidence: 0.97788846
00:28:40.590 --> 00:28:41.470 have an increased risk of
NOTE Confidence: 0.97788846
00:28:41.470 --> 00:28:42.765 getting melanoma. You have a
NOTE Confidence: 0.97788846
00:28:42.765 --> 00:28:44.205 forty percent lifetime risk of
NOTE Confidence: 0.97788846

00:28:44.205 --> 00:28:45.805 getting another skin cancer if
NOTE Confidence: 0.97788846

00:28:45.805 --> 00:28:47.085 you've had a melanoma. If
NOTE Confidence: 0.97788846

00:28:47.085 --> 00:28:47.885 you have a first degree
NOTE Confidence: 0.97788846

00:28:47.885 --> 00:28:48.865 relative with melanoma,
NOTE Confidence: 0.9831078

00:28:49.165 --> 00:28:50.525 it doubles your risk. And
NOTE Confidence: 0.9831078

00:28:50.525 --> 00:28:51.805 we know that there's genetic
NOTE Confidence: 0.9831078

00:28:51.805 --> 00:28:52.925 syndromes, and I have some
NOTE Confidence: 0.9831078

00:28:52.925 --> 00:28:53.965 of these patients in my
NOTE Confidence: 0.9831078

00:28:53.965 --> 00:28:54.300 practice
NOTE Confidence: 0.98658586

00:28:54.780 --> 00:28:55.980 where genes get passed on
NOTE Confidence: 0.98658586

00:28:55.980 --> 00:28:57.740 from generation to generation, and
NOTE Confidence: 0.98658586

00:28:57.740 --> 00:28:58.940 there's a very strong family
NOTE Confidence: 0.98658586

00:28:58.940 --> 00:29:00.000 history of melanoma
NOTE Confidence: 0.9870827

00:29:00.300 --> 00:29:02.000 and other cancers like pancreatic
NOTE Confidence: 0.9870827

00:29:02.060 --> 00:29:03.340 cancer. And so I always
NOTE Confidence: 0.9870827

00:29:03.340 --> 00:29:04.220 go by the rule of

NOTE Confidence: 0.9870827

00:29:04.220 --> 00:29:05.580 threes. If you've had three

NOTE Confidence: 0.9870827

00:29:05.580 --> 00:29:06.880 melanomas personally

NOTE Confidence: 0.98102826

00:29:07.205 --> 00:29:08.405 or if you know three

NOTE Confidence: 0.98102826

00:29:08.405 --> 00:29:09.925 first degree relatives in your

NOTE Confidence: 0.98102826

00:29:09.925 --> 00:29:11.445 family that had melanoma or

NOTE Confidence: 0.98102826

00:29:11.445 --> 00:29:11.945 pancreatic,

NOTE Confidence: 0.99226886

00:29:12.485 --> 00:29:14.245 ask your doctor about genetic

NOTE Confidence: 0.99226886

00:29:14.245 --> 00:29:14.745 testing.

NOTE Confidence: 0.9529622

00:29:16.805 --> 00:29:17.785 And then finally,

NOTE Confidence: 0.99365234

00:29:18.325 --> 00:29:18.825 prevention.

NOTE Confidence: 0.988291

00:29:19.140 --> 00:29:20.820 So we know ultraviolet radiation

NOTE Confidence: 0.988291

00:29:20.820 --> 00:29:22.200 is the number one modifiable

NOTE Confidence: 0.988291

00:29:22.260 --> 00:29:23.940 risk factor. Right? So avoid

NOTE Confidence: 0.988291

00:29:23.940 --> 00:29:25.460 tanning, protect yourself in the

NOTE Confidence: 0.988291

00:29:25.460 --> 00:29:26.660 sun. I get asked a

NOTE Confidence: 0.988291

00:29:26.660 --> 00:29:27.940 thousand times a day, well,
NOTE Confidence: 0.988291

00:29:27.940 --> 00:29:29.060 what sunscreen should I use?
NOTE Confidence: 0.988291

00:29:29.060 --> 00:29:30.020 My patients bring in, like,
NOTE Confidence: 0.988291

00:29:30.020 --> 00:29:31.060 twenty of them, and they're
NOTE Confidence: 0.988291

00:29:31.060 --> 00:29:32.100 so concerned with which one
NOTE Confidence: 0.988291

00:29:32.100 --> 00:29:33.060 to use. They're not using
NOTE Confidence: 0.988291

00:29:33.060 --> 00:29:34.115 any of them. And I
NOTE Confidence: 0.988291

00:29:34.115 --> 00:29:35.155 say, we need to simplify
NOTE Confidence: 0.988291

00:29:35.155 --> 00:29:35.975 this. Okay?
NOTE Confidence: 0.99714357

00:29:36.515 --> 00:29:37.555 The best sunscreen is the
NOTE Confidence: 0.99714357

00:29:37.555 --> 00:29:38.855 one that you're gonna use.
NOTE Confidence: 0.9775243

00:29:39.715 --> 00:29:41.235 SPF thirty and above, the
NOTE Confidence: 0.9775243

00:29:41.235 --> 00:29:42.935 data shows that's really probably
NOTE Confidence: 0.9775243

00:29:43.075 --> 00:29:44.515 the number you need. Anything
NOTE Confidence: 0.9775243

00:29:44.515 --> 00:29:45.715 above that, like SPF a
NOTE Confidence: 0.9775243

00:29:45.715 --> 00:29:47.130 hundred, is much more expensive

NOTE Confidence: 0.9775243
00:29:47.130 --> 00:29:48.330 and probably doesn't give you
NOTE Confidence: 0.9775243
00:29:48.330 --> 00:29:49.370 a whole lot more benefit.
NOTE Confidence: 0.9775243
00:29:49.370 --> 00:29:50.810 But SPF thirty and above,
NOTE Confidence: 0.9775243
00:29:50.810 --> 00:29:52.090 that's what you're aiming for.
NOTE Confidence: 0.9775243
00:29:52.090 --> 00:29:53.690 Reapplying it every few hours
NOTE Confidence: 0.9775243
00:29:53.690 --> 00:29:55.130 when you're outdoors. I mean,
NOTE Confidence: 0.9775243
00:29:55.130 --> 00:29:56.250 that's really the big thing.
NOTE Confidence: 0.9775243
00:29:56.250 --> 00:29:57.950 Wearing a hat, sun protective
NOTE Confidence: 0.9775243
00:29:58.090 --> 00:29:59.930 clothing, and just using common
NOTE Confidence: 0.9775243
00:29:59.930 --> 00:30:01.265 sense. You can still enjoy
NOTE Confidence: 0.9775243
00:30:01.265 --> 00:30:02.465 your summer, but you should
NOTE Confidence: 0.9775243
00:30:02.465 --> 00:30:03.985 protect your skin. Then the
NOTE Confidence: 0.9775243
00:30:03.985 --> 00:30:05.105 last part of the talk
NOTE Confidence: 0.9775243
00:30:05.105 --> 00:30:07.105 are what can dermatologists do,
NOTE Confidence: 0.9775243
00:30:07.105 --> 00:30:08.485 and is screening important?
NOTE Confidence: 0.9819207

00:30:09.664 --> 00:30:11.265 So the United States Preventative
NOTE Confidence: 0.9819207

00:30:11.265 --> 00:30:13.049 Services Task Force, they say
NOTE Confidence: 0.9819207

00:30:13.049 --> 00:30:14.250 that not everyone on the
NOTE Confidence: 0.9819207

00:30:14.250 --> 00:30:15.389 planet needs a dermatologist
NOTE Confidence: 0.9980469

00:30:15.769 --> 00:30:17.149 for skin cancer screening.
NOTE Confidence: 0.9774923

00:30:17.850 --> 00:30:19.289 There's too many people. And
NOTE Confidence: 0.9774923

00:30:19.289 --> 00:30:20.669 so what we do is
NOTE Confidence: 0.9774923

00:30:20.809 --> 00:30:22.250 we don't recommend that everyone
NOTE Confidence: 0.9774923

00:30:22.250 --> 00:30:23.690 should be screened. But if
NOTE Confidence: 0.9774923

00:30:23.690 --> 00:30:24.889 you are an at risk
NOTE Confidence: 0.9774923

00:30:24.889 --> 00:30:26.169 individual, then you should. If
NOTE Confidence: 0.9774923

00:30:26.169 --> 00:30:27.690 you've had skin cancer before,
NOTE Confidence: 0.9774923

00:30:27.690 --> 00:30:28.195 if if you have a
NOTE Confidence: 0.9774923

00:30:28.195 --> 00:30:29.875 strong family history, if you
NOTE Confidence: 0.9774923

00:30:29.875 --> 00:30:30.675 look in the mirror and
NOTE Confidence: 0.9774923

00:30:30.675 --> 00:30:32.355 you're covered in atypical moles

NOTE Confidence: 0.9774923
00:30:32.355 --> 00:30:33.475 and hundreds of moles, you're
NOTE Confidence: 0.9774923
00:30:33.475 --> 00:30:34.435 someone who should see a
NOTE Confidence: 0.9774923
00:30:34.435 --> 00:30:34.935 dermatologist.
NOTE Confidence: 0.9602614
00:30:35.555 --> 00:30:37.075 Definitely see a dermatologist who's
NOTE Confidence: 0.9602614
00:30:37.075 --> 00:30:38.115 gonna do a thorough total
NOTE Confidence: 0.9602614
00:30:38.115 --> 00:30:39.255 body skin exam.
NOTE Confidence: 0.98034084
00:30:39.555 --> 00:30:40.515 Does not take a long
NOTE Confidence: 0.98034084
00:30:40.515 --> 00:30:41.555 time, but you can still
NOTE Confidence: 0.98034084
00:30:41.555 --> 00:30:42.880 be very thorough in a
NOTE Confidence: 0.98034084
00:30:42.880 --> 00:30:44.080 short amount of time. A
NOTE Confidence: 0.98034084
00:30:44.080 --> 00:30:45.280 dermatologist that looks at you
NOTE Confidence: 0.98034084
00:30:45.280 --> 00:30:46.400 from across the room is
NOTE Confidence: 0.98034084
00:30:46.400 --> 00:30:47.280 not the one that you
NOTE Confidence: 0.98034084
00:30:47.280 --> 00:30:48.080 should be seeing for a
NOTE Confidence: 0.98034084
00:30:48.080 --> 00:30:48.820 skin check.
NOTE Confidence: 0.9307528

00:30:49.440 --> 00:30:51.520 And youth education programs like
NOTE Confidence: 0.9307528

00:30:51.520 --> 00:30:52.960 we spoke about earlier, really
NOTE Confidence: 0.9307528

00:30:52.960 --> 00:30:53.460 important.
NOTE Confidence: 0.9899292

00:30:54.000 --> 00:30:55.520 And so the evidence has
NOTE Confidence: 0.9899292

00:30:55.520 --> 00:30:56.660 shown that dermatologists
NOTE Confidence: 0.99080604

00:30:57.165 --> 00:30:58.765 find melanoma tumors that are
NOTE Confidence: 0.99080604

00:30:58.765 --> 00:31:00.125 thin, thinner than the general
NOTE Confidence: 0.99080604

00:31:00.125 --> 00:31:01.965 population, thinner than primary care
NOTE Confidence: 0.99080604

00:31:01.965 --> 00:31:03.245 doctors, and so we know
NOTE Confidence: 0.99080604

00:31:03.245 --> 00:31:05.005 the thickness is super important.
NOTE Confidence: 0.99080604

00:31:05.005 --> 00:31:06.625 Picking up a thin melanoma
NOTE Confidence: 0.99080604

00:31:06.845 --> 00:31:08.845 earlier on is crucial. And
NOTE Confidence: 0.99080604

00:31:08.845 --> 00:31:09.965 we also know from studies
NOTE Confidence: 0.99080604

00:31:09.965 --> 00:31:11.165 that patients can be taught
NOTE Confidence: 0.99080604

00:31:11.165 --> 00:31:12.430 what to look for, doing
NOTE Confidence: 0.99080604

00:31:12.430 --> 00:31:13.710 skin checks, looking in the

NOTE Confidence: 0.99080604
00:31:13.710 --> 00:31:15.390 mirror every month or so.
NOTE Confidence: 0.99080604
00:31:15.390 --> 00:31:16.350 And so I always like
NOTE Confidence: 0.99080604
00:31:16.350 --> 00:31:17.630 to tell patients, look for
NOTE Confidence: 0.99080604
00:31:17.630 --> 00:31:19.310 the ugly duckling sign. Look
NOTE Confidence: 0.99080604
00:31:19.310 --> 00:31:20.350 for something on your skin
NOTE Confidence: 0.99080604
00:31:20.350 --> 00:31:21.490 that's different
NOTE Confidence: 0.9860749
00:31:21.790 --> 00:31:23.710 from other moles, changing. That's
NOTE Confidence: 0.9860749
00:31:23.710 --> 00:31:24.670 something you should bring to
NOTE Confidence: 0.9860749
00:31:24.670 --> 00:31:26.245 my attention. Don't wait if
NOTE Confidence: 0.9860749
00:31:26.245 --> 00:31:27.445 it develops a month after
NOTE Confidence: 0.9860749
00:31:27.445 --> 00:31:28.965 hour visit for our yearly
NOTE Confidence: 0.9860749
00:31:28.965 --> 00:31:29.784 skin check.
NOTE Confidence: 0.9970556
00:31:30.645 --> 00:31:31.524 What can we use as
NOTE Confidence: 0.9970556
00:31:31.524 --> 00:31:32.885 dermatologists? So we have certain
NOTE Confidence: 0.9970556
00:31:32.885 --> 00:31:33.385 tools.
NOTE Confidence: 0.9474359

00:31:33.924 --> 00:31:35.445 My patients know I don't
NOTE Confidence: 0.9474359

00:31:35.445 --> 00:31:36.404 I don't go anywhere without
NOTE Confidence: 0.9474359

00:31:36.404 --> 00:31:38.005 my dermatoscope, my dermlight. It's
NOTE Confidence: 0.9474359

00:31:38.005 --> 00:31:39.610 a magnifying lens. It allows
NOTE Confidence: 0.9474359

00:31:39.610 --> 00:31:40.330 us to look at them
NOTE Confidence: 0.9474359

00:31:40.330 --> 00:31:41.289 all, which should the naked
NOTE Confidence: 0.9474359

00:31:41.289 --> 00:31:42.649 eye might seem okay. But
NOTE Confidence: 0.9474359

00:31:42.649 --> 00:31:43.929 then with my dermlight, I
NOTE Confidence: 0.9474359

00:31:43.929 --> 00:31:45.289 might see some pigment changes
NOTE Confidence: 0.9474359

00:31:45.289 --> 00:31:46.570 that are abnormal, so I'll
NOTE Confidence: 0.9474359

00:31:46.570 --> 00:31:48.090 take a skin biopsy. So
NOTE Confidence: 0.9474359

00:31:48.090 --> 00:31:49.070 we all use dermatoscope.
NOTE Confidence: 0.9741838

00:31:49.610 --> 00:31:51.549 We sometimes do digital photography.
NOTE Confidence: 0.9741838

00:31:51.690 --> 00:31:52.649 I have some patients that
NOTE Confidence: 0.9741838

00:31:52.649 --> 00:31:54.085 are covered in atypical moles.
NOTE Confidence: 0.9741838

00:31:54.085 --> 00:31:55.445 We'll take photos and look

NOTE Confidence: 0.9741838
00:31:55.445 --> 00:31:57.044 over time. I still think
NOTE Confidence: 0.9741838
00:31:57.044 --> 00:31:59.044 the patient doctor interaction is
NOTE Confidence: 0.9741838
00:31:59.044 --> 00:32:00.585 more important than some new
NOTE Confidence: 0.9741838
00:32:00.644 --> 00:32:02.565 AI tool saying that something
NOTE Confidence: 0.9741838
00:32:02.565 --> 00:32:03.924 may have changed because some
NOTE Confidence: 0.9741838
00:32:03.924 --> 00:32:04.985 changes are okay.
NOTE Confidence: 0.9790039
00:32:05.620 --> 00:32:07.059 And then finally, I'll end
NOTE Confidence: 0.9790039
00:32:07.059 --> 00:32:07.799 by saying,
NOTE Confidence: 0.9836888
00:32:08.580 --> 00:32:09.860 advocate for yourself and your
NOTE Confidence: 0.9836888
00:32:09.860 --> 00:32:11.460 skin. Do do monthly or
NOTE Confidence: 0.9836888
00:32:11.460 --> 00:32:12.980 every couple months skin checks
NOTE Confidence: 0.9836888
00:32:12.980 --> 00:32:14.419 on yourself or your partners.
NOTE Confidence: 0.9836888
00:32:14.419 --> 00:32:15.539 All you need is a
NOTE Confidence: 0.9836888
00:32:15.539 --> 00:32:16.820 mirror and a handheld mirror,
NOTE Confidence: 0.9836888
00:32:16.820 --> 00:32:17.779 and I have a little
NOTE Confidence: 0.9836888

00:32:17.779 --> 00:32:18.899 demonstration here.
NOTE Confidence: 0.94750977

00:32:19.785 --> 00:32:20.285 Let's
NOTE Confidence: 0.7609863

00:32:23.465 --> 00:32:23.965 see.
NOTE Confidence: 0.54020995

00:32:33.065 --> 00:32:34.350 But it's can't like it.
NOTE Confidence: 0.69122314

00:32:45.470 --> 00:32:46.610 Look in the scalp,
NOTE Confidence: 0.96204424

00:32:47.390 --> 00:32:48.945 try to spread the toes,
NOTE Confidence: 0.96204424

00:32:49.085 --> 00:32:50.385 gotta look in the buttock,
NOTE Confidence: 0.78479004

00:32:50.685 --> 00:32:52.785 look in the areas,
NOTE Confidence: 0.6728328

00:32:53.405 --> 00:32:54.685 look in the sun, look
NOTE Confidence: 0.6728328

00:32:54.685 --> 00:32:55.485 in the mouth to purr
NOTE Confidence: 0.6728328

00:32:55.485 --> 00:32:56.225 on the back.
NOTE Confidence: 0.96794784

00:33:00.125 --> 00:33:01.245 So a nice thorough skin
NOTE Confidence: 0.96794784

00:33:01.245 --> 00:33:02.380 exam. So with that, I'll
NOTE Confidence: 0.96794784

00:33:02.380 --> 00:33:03.340 end, and I look forward
NOTE Confidence: 0.96794784

00:33:03.340 --> 00:33:04.780 to taking questions later. Thank
NOTE Confidence: 0.96794784

00:33:04.780 --> 00:33:05.280 you.

NOTE Confidence: 0.92170936
00:33:18.825 --> 00:33:19.865 Just a little shorter than
NOTE Confidence: 0.92170936
00:33:19.865 --> 00:33:20.605 doctor Leventhal.
NOTE Confidence: 0.99056727
00:33:22.505 --> 00:33:23.705 So I'm gonna talk about
NOTE Confidence: 0.99056727
00:33:23.705 --> 00:33:24.665 something that's been a real
NOTE Confidence: 0.99056727
00:33:24.665 --> 00:33:25.165 paradigm
NOTE Confidence: 0.9693134
00:33:25.545 --> 00:33:26.665 shift pretty much in the
NOTE Confidence: 0.9693134
00:33:26.665 --> 00:33:28.025 last five years and really,
NOTE Confidence: 0.9693134
00:33:28.025 --> 00:33:29.070 you know, highlights,
NOTE Confidence: 0.9820789
00:33:29.549 --> 00:33:30.909 the journey that that Brandy
NOTE Confidence: 0.9820789
00:33:30.909 --> 00:33:31.950 spoke a little bit about,
NOTE Confidence: 0.9820789
00:33:31.950 --> 00:33:33.070 and and that's the the
NOTE Confidence: 0.9820789
00:33:33.070 --> 00:33:34.350 shift towards what we call
NOTE Confidence: 0.9820789
00:33:34.350 --> 00:33:34.850 neoadjuvant
NOTE Confidence: 1
00:33:35.309 --> 00:33:35.809 therapy.
NOTE Confidence: 0.9832519
00:33:37.309 --> 00:33:39.149 So, again, historically, we talk
NOTE Confidence: 0.9832519

00:33:39.149 --> 00:33:41.090 about removing the skin, removing
NOTE Confidence: 0.98189455

00:33:41.630 --> 00:33:42.669 lymph nodes. Some of you
NOTE Confidence: 0.98189455

00:33:42.669 --> 00:33:43.605 may have had what we
NOTE Confidence: 0.98189455

00:33:43.605 --> 00:33:44.965 call a wide local excision
NOTE Confidence: 0.98189455

00:33:44.965 --> 00:33:46.405 and a sentinel node biopsy
NOTE Confidence: 0.98189455

00:33:46.405 --> 00:33:47.545 that are in the audience.
NOTE Confidence: 0.9941406

00:33:48.885 --> 00:33:49.385 But,
NOTE Confidence: 0.9661801

00:33:49.685 --> 00:33:52.085 you know, unfortunately, melanoma could
NOTE Confidence: 0.9661801

00:33:52.085 --> 00:33:54.085 spread to other locations. And,
NOTE Confidence: 0.9661801

00:33:54.085 --> 00:33:55.365 again, in the time before
NOTE Confidence: 0.9661801

00:33:55.365 --> 00:33:56.665 we had immune therapy,
NOTE Confidence: 0.9333845

00:33:57.500 --> 00:33:59.580 people sometimes had locations surgeons
NOTE Confidence: 0.9333845

00:33:59.580 --> 00:34:00.539 could remove and some of
NOTE Confidence: 0.9333845

00:34:00.539 --> 00:34:01.820 them did very well and
NOTE Confidence: 0.9333845

00:34:01.820 --> 00:34:03.740 others didn't have that same
NOTE Confidence: 0.9333845

00:34:03.740 --> 00:34:04.240 outcome.

NOTE Confidence: 0.9303481
00:34:05.580 --> 00:34:07.840 And again, here, lymph nodes,
NOTE Confidence: 0.9303481
00:34:07.980 --> 00:34:09.099 lots of people did pretty
NOTE Confidence: 0.9303481
00:34:09.099 --> 00:34:10.859 well. Lung, not so well.
NOTE Confidence: 0.9303481
00:34:10.859 --> 00:34:11.599 Other places.
NOTE Confidence: 0.95684814
00:34:12.005 --> 00:34:13.445 Right? This is again where
NOTE Confidence: 0.95684814
00:34:13.445 --> 00:34:14.805 we started from when we
NOTE Confidence: 0.95684814
00:34:14.805 --> 00:34:16.085 had hopes and prayers and
NOTE Confidence: 0.95684814
00:34:16.085 --> 00:34:17.545 surgery and not much else.
NOTE Confidence: 0.9951459
00:34:18.325 --> 00:34:19.525 And then again, many of
NOTE Confidence: 0.9951459
00:34:19.525 --> 00:34:20.325 you in the room may
NOTE Confidence: 0.9951459
00:34:20.325 --> 00:34:21.605 have received or have now
NOTE Confidence: 0.9951459
00:34:21.605 --> 00:34:22.344 heard about
NOTE Confidence: 0.99853516
00:34:22.725 --> 00:34:23.465 what was
NOTE Confidence: 0.85898435
00:34:24.400 --> 00:34:27.060 practice changing, Nobel Prize winning
NOTE Confidence: 0.88378906
00:34:27.360 --> 00:34:27.860 work,
NOTE Confidence: 1

00:34:28.960 --> 00:34:29.460 that
NOTE Confidence: 0.97398883

00:34:30.400 --> 00:34:32.000 came into clinical trials. And
NOTE Confidence: 0.97398883

00:34:32.000 --> 00:34:33.280 melanoma was one of the
NOTE Confidence: 0.97398883

00:34:33.280 --> 00:34:34.100 first fields
NOTE Confidence: 0.93212074

00:34:34.480 --> 00:34:36.285 actually to study this and
NOTE Confidence: 0.93212074

00:34:36.525 --> 00:34:37.565 patients, again, some of you
NOTE Confidence: 0.93212074

00:34:37.565 --> 00:34:38.285 that are even in the
NOTE Confidence: 0.93212074

00:34:38.285 --> 00:34:39.164 audience today, some of the
NOTE Confidence: 0.93212074

00:34:39.164 --> 00:34:40.785 first people who received this,
NOTE Confidence: 0.93212074

00:34:41.005 --> 00:34:42.464 actually received it at Yale.
NOTE Confidence: 0.9772407

00:34:44.684 --> 00:34:46.285 And with this, people again,
NOTE Confidence: 0.9772407

00:34:46.285 --> 00:34:47.905 the old paradigm was
NOTE Confidence: 0.9431014

00:34:48.364 --> 00:34:50.045 after surgery. So, again, someone
NOTE Confidence: 0.9431014

00:34:50.045 --> 00:34:51.005 would show up. They'd have
NOTE Confidence: 0.9431014

00:34:51.005 --> 00:34:53.339 tumors in locations. We take
NOTE Confidence: 0.9431014

00:34:53.339 --> 00:34:54.460 them out, particularly if they

NOTE Confidence: 0.9431014

00:34:54.460 --> 00:34:55.420 were in the lymph nodes,

NOTE Confidence: 0.9431014

00:34:55.420 --> 00:34:56.299 and then we would give

NOTE Confidence: 0.9431014

00:34:56.299 --> 00:34:57.980 people immune therapy. And people

NOTE Confidence: 0.9431014

00:34:57.980 --> 00:34:59.579 started saying this. Is this

NOTE Confidence: 0.9431014

00:34:59.579 --> 00:35:00.619 the best way to go

NOTE Confidence: 0.9431014

00:35:00.619 --> 00:35:02.400 about this? You know, scientifically,

NOTE Confidence: 0.9431014

00:35:02.619 --> 00:35:03.520 does this make

NOTE Confidence: 0.95874023

00:35:03.900 --> 00:35:04.400 sense?

NOTE Confidence: 0.9354655

00:35:04.775 --> 00:35:06.135 Right? So, you know, as

NOTE Confidence: 0.9354655

00:35:06.135 --> 00:35:07.335 with everything, we want to

NOTE Confidence: 0.9354655

00:35:07.335 --> 00:35:08.955 say, what are we doing?

NOTE Confidence: 0.9834217

00:35:09.255 --> 00:35:10.535 This has been successful, but

NOTE Confidence: 0.9834217

00:35:10.535 --> 00:35:11.975 how can we improve upon

NOTE Confidence: 0.9834217

00:35:11.975 --> 00:35:13.175 it? How can we learn

NOTE Confidence: 0.9834217

00:35:13.175 --> 00:35:14.055 more? How can we do

NOTE Confidence: 0.9834217

00:35:14.055 --> 00:35:14.555 better?
NOTE Confidence: 0.9707031

00:35:16.135 --> 00:35:16.635 So
NOTE Confidence: 0.97683233

00:35:17.440 --> 00:35:19.200 again, particularly in patients who
NOTE Confidence: 0.97683233

00:35:19.200 --> 00:35:21.040 had melanoma that we could
NOTE Confidence: 0.97683233

00:35:21.040 --> 00:35:22.880 feel, you know, areas in
NOTE Confidence: 0.97683233

00:35:22.880 --> 00:35:24.260 the the lymph nodes,
NOTE Confidence: 0.96841866

00:35:24.800 --> 00:35:26.320 places that we could see,
NOTE Confidence: 0.96841866

00:35:26.320 --> 00:35:27.360 areas in the skin, we
NOTE Confidence: 0.96841866

00:35:27.360 --> 00:35:28.580 call those in transits.
NOTE Confidence: 0.9770122

00:35:28.960 --> 00:35:30.480 And then also certain places
NOTE Confidence: 0.9770122

00:35:30.480 --> 00:35:31.995 where you could remove something
NOTE Confidence: 0.9770122

00:35:32.075 --> 00:35:33.675 with an operation, but maybe
NOTE Confidence: 0.9770122

00:35:33.675 --> 00:35:34.735 it wasn't an emergency.
NOTE Confidence: 0.96966

00:35:35.115 --> 00:35:36.155 Sometimes a spot in the
NOTE Confidence: 0.96966

00:35:36.155 --> 00:35:37.195 lung, a spot in the
NOTE Confidence: 0.96966

00:35:37.195 --> 00:35:37.695 bowel.

NOTE Confidence: 0.9970703
00:35:38.795 --> 00:35:39.295 And
NOTE Confidence: 0.92394435
00:35:39.755 --> 00:35:40.875 why did we think that?
NOTE Confidence: 0.92394435
00:35:40.875 --> 00:35:41.835 Again, if you kind of
NOTE Confidence: 0.92394435
00:35:41.835 --> 00:35:42.955 think, you know, like a
NOTE Confidence: 0.92394435
00:35:42.955 --> 00:35:44.795 scientist and a doctor, you
NOTE Confidence: 0.92394435
00:35:44.795 --> 00:35:45.295 know.
NOTE Confidence: 0.97789884
00:35:45.660 --> 00:35:46.539 But again, a lot of
NOTE Confidence: 0.97789884
00:35:46.539 --> 00:35:47.579 common sense. If you have
NOTE Confidence: 0.97789884
00:35:47.579 --> 00:35:49.020 something in place and you
NOTE Confidence: 0.97789884
00:35:49.020 --> 00:35:50.160 give someone a treatment,
NOTE Confidence: 0.92629457
00:35:50.700 --> 00:35:51.579 you can kind of see
NOTE Confidence: 0.92629457
00:35:51.579 --> 00:35:52.859 what it's how it's working.
NOTE Confidence: 0.92629457
00:35:52.859 --> 00:35:54.079 Right? It shrinks.
NOTE Confidence: 0.97843426
00:35:54.380 --> 00:35:55.579 You know, Brandy had that
NOTE Confidence: 0.97843426
00:35:55.579 --> 00:35:56.079 experience.
NOTE Confidence: 0.97802734

00:35:56.619 --> 00:35:57.980 Sometimes, again, when it shrinks,
NOTE Confidence: 0.97802734

00:35:57.980 --> 00:35:59.039 it makes your operation
NOTE Confidence: 0.9739227

00:35:59.579 --> 00:36:00.780 safer to do. So if
NOTE Confidence: 0.9739227

00:36:00.780 --> 00:36:02.265 it works, you know, that's
NOTE Confidence: 0.9739227

00:36:02.265 --> 00:36:03.224 a good reason to do
NOTE Confidence: 0.9739227

00:36:03.224 --> 00:36:03.724 this.
NOTE Confidence: 0.9840611

00:36:04.265 --> 00:36:05.065 If we look at our
NOTE Confidence: 0.9840611

00:36:05.065 --> 00:36:06.045 immune system,
NOTE Confidence: 0.9828743

00:36:06.344 --> 00:36:07.704 again, if the target's in
NOTE Confidence: 0.9828743

00:36:07.704 --> 00:36:09.385 place, there's some thought that
NOTE Confidence: 0.9828743

00:36:09.385 --> 00:36:10.424 maybe we get a better
NOTE Confidence: 0.9828743

00:36:10.424 --> 00:36:12.344 variety of t cells that
NOTE Confidence: 0.9828743

00:36:12.344 --> 00:36:14.025 are surrounding the tumor that
NOTE Confidence: 0.9828743

00:36:14.025 --> 00:36:15.944 may persist longer even after
NOTE Confidence: 0.9828743

00:36:15.944 --> 00:36:17.609 the tumor is removed.
NOTE Confidence: 0.95358074

00:36:18.630 --> 00:36:20.550 And, again, for learning for

NOTE Confidence: 0.95358074
00:36:20.550 --> 00:36:21.989 the next patient, you know,
NOTE Confidence: 0.95358074
00:36:21.989 --> 00:36:23.450 for the next trial too,
NOTE Confidence: 0.9647827
00:36:23.829 --> 00:36:25.430 we learn every single time
NOTE Confidence: 0.9647827
00:36:25.430 --> 00:36:26.630 that we have a response
NOTE Confidence: 0.9647827
00:36:26.630 --> 00:36:27.750 or we don't have a
NOTE Confidence: 0.9647827
00:36:27.750 --> 00:36:28.250 response
NOTE Confidence: 0.9873598
00:36:28.630 --> 00:36:29.829 from our patients and from
NOTE Confidence: 0.9873598
00:36:29.829 --> 00:36:31.270 the samples that are that
NOTE Confidence: 0.9873598
00:36:31.270 --> 00:36:33.114 are garnered from that. And
NOTE Confidence: 0.9873598
00:36:33.114 --> 00:36:33.995 the other thing too is,
NOTE Confidence: 0.9873598
00:36:33.995 --> 00:36:35.375 you know, there's nothing worse,
NOTE Confidence: 0.9873598
00:36:35.435 --> 00:36:36.475 you know, particularly being the
NOTE Confidence: 0.9873598
00:36:36.475 --> 00:36:36.975 surgeon,
NOTE Confidence: 0.9090751
00:36:37.435 --> 00:36:38.875 then you do a a
NOTE Confidence: 0.9090751
00:36:38.875 --> 00:36:39.695 big operation.
NOTE Confidence: 0.81992185

00:36:40.075 --> 00:36:41.375 You think you help someone,
NOTE Confidence: 0.9385376

00:36:41.915 --> 00:36:42.975 and man, the melanoma
NOTE Confidence: 0.96221924

00:36:43.515 --> 00:36:44.955 is back. Right? And you
NOTE Confidence: 0.96221924

00:36:44.955 --> 00:36:46.110 say, did we miss an
NOTE Confidence: 0.96221924

00:36:46.270 --> 00:36:47.790 opportunity to maybe treat that
NOTE Confidence: 0.96221924

00:36:47.790 --> 00:36:49.470 person earlier with something that
NOTE Confidence: 0.96221924

00:36:49.470 --> 00:36:50.610 would be more effective?
NOTE Confidence: 0.96889514

00:36:52.910 --> 00:36:53.950 So again, this is just
NOTE Confidence: 0.96889514

00:36:53.950 --> 00:36:55.710 a little cartoon illustration of
NOTE Confidence: 0.96889514

00:36:55.710 --> 00:36:56.750 kind of a little bit
NOTE Confidence: 0.96889514

00:36:56.750 --> 00:36:58.610 more of that that concept
NOTE Confidence: 0.96889514

00:36:58.670 --> 00:37:00.510 of having these different t
NOTE Confidence: 0.96889514

00:37:00.510 --> 00:37:02.195 cells in the area. You
NOTE Confidence: 0.96889514

00:37:02.195 --> 00:37:03.075 know, if we take that
NOTE Confidence: 0.96889514

00:37:03.075 --> 00:37:03.815 out first,
NOTE Confidence: 0.9936198

00:37:04.114 --> 00:37:05.635 there's less for the immune

NOTE Confidence: 0.9936198
00:37:05.635 --> 00:37:07.235 system to recognize. So people
NOTE Confidence: 0.9936198
00:37:07.235 --> 00:37:09.335 were really saying, you know,
NOTE Confidence: 0.9640416
00:37:09.715 --> 00:37:10.755 what order should we do
NOTE Confidence: 0.9640416
00:37:10.755 --> 00:37:11.495 this at?
NOTE Confidence: 0.79589844
00:37:13.235 --> 00:37:13.735 So,
NOTE Confidence: 0.96208495
00:37:14.210 --> 00:37:15.170 again, one of the first
NOTE Confidence: 0.96208495
00:37:15.170 --> 00:37:16.289 thing was kind of the
NOTE Confidence: 0.96208495
00:37:16.289 --> 00:37:18.049 double therapy that that Brandy
NOTE Confidence: 0.96208495
00:37:18.049 --> 00:37:18.849 had talked to a little
NOTE Confidence: 0.96208495
00:37:18.849 --> 00:37:19.529 bit. And this was some
NOTE Confidence: 0.96208495
00:37:19.529 --> 00:37:21.170 of the early studies trying
NOTE Confidence: 0.96208495
00:37:21.170 --> 00:37:22.130 to say, okay, how do
NOTE Confidence: 0.96208495
00:37:22.130 --> 00:37:23.430 we get the right combination?
NOTE Confidence: 0.9830458
00:37:24.210 --> 00:37:25.250 One that we don't want
NOTE Confidence: 0.9830458
00:37:25.250 --> 00:37:26.309 to be too toxic,
NOTE Confidence: 0.9461291

00:37:26.635 --> 00:37:27.675 but one that we want
NOTE Confidence: 0.9461291

00:37:27.675 --> 00:37:29.114 to work. Right? Because we
NOTE Confidence: 0.9461291

00:37:29.114 --> 00:37:30.475 always balance. What is the
NOTE Confidence: 0.9461291

00:37:30.475 --> 00:37:31.775 treatment due to the tumor
NOTE Confidence: 0.9461291

00:37:31.835 --> 00:37:32.635 and what does it do
NOTE Confidence: 0.9461291

00:37:32.635 --> 00:37:33.775 to our patient? Right?
NOTE Confidence: 0.9995117

00:37:34.155 --> 00:37:35.055 Both are important.
NOTE Confidence: 0.99491376

00:37:37.755 --> 00:37:38.715 So this was kind of
NOTE Confidence: 0.99491376

00:37:38.715 --> 00:37:39.835 the the winner that then
NOTE Confidence: 0.99491376

00:37:39.835 --> 00:37:41.035 went through to the next
NOTE Confidence: 0.99491376

00:37:41.035 --> 00:37:42.095 round of trials.
NOTE Confidence: 0.9487169

00:37:43.700 --> 00:37:44.900 And we also said too,
NOTE Confidence: 0.9487169

00:37:44.900 --> 00:37:46.260 again, could we just do
NOTE Confidence: 0.9487169

00:37:46.260 --> 00:37:47.700 a single? Right. So this
NOTE Confidence: 0.9487169

00:37:47.700 --> 00:37:48.579 is what this was what
NOTE Confidence: 0.9487169

00:37:48.579 --> 00:37:49.700 we call the swab trial.

NOTE Confidence: 0.9487169
00:37:49.700 --> 00:37:51.299 That was the organization that
NOTE Confidence: 0.9487169
00:37:51.299 --> 00:37:52.579 did that did this across
NOTE Confidence: 0.9487169
00:37:52.579 --> 00:37:53.540 patients. This is just with
NOTE Confidence: 0.9487169
00:37:53.540 --> 00:37:54.920 a single type of immune
NOTE Confidence: 0.78564453
00:37:55.219 --> 00:37:55.719 therapy.
NOTE Confidence: 0.9539931
00:37:56.205 --> 00:37:57.645 Seeing a difference between in
NOTE Confidence: 0.9539931
00:37:57.645 --> 00:37:59.185 blue, the people who got
NOTE Confidence: 0.9539931
00:37:59.405 --> 00:38:01.245 immune therapy before surgery, the
NOTE Confidence: 0.9539931
00:38:01.245 --> 00:38:02.605 red are people who had
NOTE Confidence: 0.9539931
00:38:02.605 --> 00:38:03.645 surgery and then had the
NOTE Confidence: 0.9539931
00:38:03.645 --> 00:38:04.785 immune therapy,
NOTE Confidence: 0.9454956
00:38:05.085 --> 00:38:06.465 and seeing some responses.
NOTE Confidence: 0.9581502
00:38:08.219 --> 00:38:09.680 We think probably the doublet,
NOTE Confidence: 0.9581502
00:38:09.900 --> 00:38:11.260 you know, maybe a little
NOTE Confidence: 0.9581502
00:38:11.260 --> 00:38:12.000 bit stronger,
NOTE Confidence: 0.92743164

00:38:12.300 --> 00:38:13.580 but it's also got more
NOTE Confidence: 0.92743164

00:38:13.580 --> 00:38:14.780 side effects. But again, this
NOTE Confidence: 0.92743164

00:38:14.780 --> 00:38:15.739 is a big trial that
NOTE Confidence: 0.92743164

00:38:15.739 --> 00:38:17.440 was done called the Nadina
NOTE Confidence: 0.92743164

00:38:17.500 --> 00:38:19.359 trial. And it also said,
NOTE Confidence: 0.9987793

00:38:19.660 --> 00:38:20.880 why don't we learn
NOTE Confidence: 0.994043

00:38:21.260 --> 00:38:22.880 from what the tumor does?
NOTE Confidence: 0.9916016

00:38:23.395 --> 00:38:25.015 Do we need to do
NOTE Confidence: 0.9916016

00:38:25.155 --> 00:38:25.875 you know, what kind of
NOTE Confidence: 0.9916016

00:38:25.875 --> 00:38:27.075 an operation do we need
NOTE Confidence: 0.9916016

00:38:27.075 --> 00:38:28.195 to do? Do we need
NOTE Confidence: 0.9916016

00:38:28.195 --> 00:38:29.655 to give people more treatment
NOTE Confidence: 0.9820621

00:38:30.114 --> 00:38:31.955 after? Right? So, you know,
NOTE Confidence: 0.9820621

00:38:31.955 --> 00:38:32.995 in in in our best
NOTE Confidence: 0.9820621

00:38:32.995 --> 00:38:34.275 circumstances, you know, if we
NOTE Confidence: 0.9820621

00:38:34.275 --> 00:38:35.495 give someone a therapy

NOTE Confidence: 0.90527344
00:38:35.875 --> 00:38:36.375 and
NOTE Confidence: 0.991333
00:38:36.739 --> 00:38:37.319 the pathologist
NOTE Confidence: 0.9547083
00:38:37.619 --> 00:38:38.500 examines it and says all
NOTE Confidence: 0.9547083
00:38:38.500 --> 00:38:40.180 the melanoma's dead and been
NOTE Confidence: 0.9547083
00:38:40.180 --> 00:38:40.680 replaced,
NOTE Confidence: 0.97403896
00:38:41.140 --> 00:38:41.940 do they need to get
NOTE Confidence: 0.97403896
00:38:41.940 --> 00:38:43.460 more treatment? Right? So these
NOTE Confidence: 0.97403896
00:38:43.460 --> 00:38:44.260 are all of the things
NOTE Confidence: 0.97403896
00:38:44.260 --> 00:38:46.180 because, again, the treatments can
NOTE Confidence: 0.97403896
00:38:46.180 --> 00:38:47.380 have side effects. We don't
NOTE Confidence: 0.97403896
00:38:47.380 --> 00:38:48.420 know when they'll come. Some
NOTE Confidence: 0.97403896
00:38:48.420 --> 00:38:49.460 people will never get them.
NOTE Confidence: 0.97403896
00:38:49.460 --> 00:38:50.739 Sometimes they'll get them late.
NOTE Confidence: 0.97403896
00:38:50.739 --> 00:38:52.155 Right? So everything we say,
NOTE Confidence: 0.97403896
00:38:52.155 --> 00:38:53.035 okay. How can we be
NOTE Confidence: 0.97403896

00:38:53.035 --> 00:38:54.495 smarter about what we're doing?

NOTE Confidence: 0.84463936

00:38:55.675 --> 00:38:56.795 So again, in this again

NOTE Confidence: 0.84463936

00:38:56.795 --> 00:38:58.395 again in blue, the people

NOTE Confidence: 0.84463936

00:38:58.395 --> 00:38:59.855 who got the doublet

NOTE Confidence: 0.9546907

00:39:00.235 --> 00:39:02.235 immune therapy first. Right? That's

NOTE Confidence: 0.9546907

00:39:02.235 --> 00:39:03.515 the blue line. The red

NOTE Confidence: 0.9546907

00:39:03.515 --> 00:39:05.114 line under there. And when

NOTE Confidence: 0.9546907

00:39:05.114 --> 00:39:06.390 we look at, you know,

NOTE Confidence: 0.9546907

00:39:06.630 --> 00:39:07.930 did something happen?

NOTE Confidence: 0.9625244

00:39:08.230 --> 00:39:09.190 Was there an event that

NOTE Confidence: 0.9625244

00:39:09.190 --> 00:39:10.549 a tumor come back or

NOTE Confidence: 0.9625244

00:39:10.549 --> 00:39:12.170 not? You know, you see,

NOTE Confidence: 0.9625244

00:39:12.309 --> 00:39:13.910 you know, lasting, you know,

NOTE Confidence: 0.9625244

00:39:13.910 --> 00:39:15.529 almost to about three years,

NOTE Confidence: 0.9625244

00:39:15.589 --> 00:39:16.630 you know, there were people

NOTE Confidence: 0.9625244

00:39:16.630 --> 00:39:18.069 who had really, really good

NOTE Confidence: 0.9625244
00:39:18.069 --> 00:39:18.569 responses.
NOTE Confidence: 0.9737549
00:39:19.094 --> 00:39:20.295 And the thing that becomes
NOTE Confidence: 0.9737549
00:39:20.295 --> 00:39:22.055 actually the most important is
NOTE Confidence: 0.9737549
00:39:22.055 --> 00:39:23.094 when we break it down
NOTE Confidence: 0.9737549
00:39:23.094 --> 00:39:23.594 by
NOTE Confidence: 0.9563802
00:39:23.895 --> 00:39:25.114 in people who
NOTE Confidence: 0.95371854
00:39:25.415 --> 00:39:27.094 when the pathologist examined it
NOTE Confidence: 0.95371854
00:39:27.094 --> 00:39:27.815 and they had what we
NOTE Confidence: 0.95371854
00:39:27.815 --> 00:39:29.974 called a major pathologic response.
NOTE Confidence: 0.95371854
00:39:29.974 --> 00:39:31.175 Right? They examined. They said,
NOTE Confidence: 0.95371854
00:39:31.175 --> 00:39:33.030 man, this immune therapy took
NOTE Confidence: 0.95371854
00:39:33.190 --> 00:39:34.250 care of the tumor.
NOTE Confidence: 0.99853516
00:39:34.550 --> 00:39:35.510 The number of people that
NOTE Confidence: 0.99853516
00:39:35.510 --> 00:39:37.270 the melanoma then came back
NOTE Confidence: 0.99853516
00:39:37.270 --> 00:39:37.770 later
NOTE Confidence: 0.96717745

00:39:38.150 --> 00:39:40.150 was actually a rarer event.
NOTE Confidence: 0.96717745

00:39:40.150 --> 00:39:41.190 And again, this is kind
NOTE Confidence: 0.96717745

00:39:41.190 --> 00:39:42.230 of what we we talk
NOTE Confidence: 0.96717745

00:39:42.230 --> 00:39:44.730 about, you know, evolving, cutting
NOTE Confidence: 0.96717745

00:39:44.950 --> 00:39:46.230 edge. You know, it's taken
NOTE Confidence: 0.96717745

00:39:46.230 --> 00:39:47.805 many years to get there
NOTE Confidence: 0.96717745

00:39:47.805 --> 00:39:49.025 since the first trials.
NOTE Confidence: 0.98110217

00:39:50.045 --> 00:39:51.405 And we, again, we do
NOTE Confidence: 0.98110217

00:39:51.405 --> 00:39:52.925 worry. Right? We do worry
NOTE Confidence: 0.98110217

00:39:52.925 --> 00:39:54.364 if someone gets a a
NOTE Confidence: 0.98110217

00:39:54.364 --> 00:39:56.285 side effect as well. And,
NOTE Confidence: 0.98110217

00:39:56.285 --> 00:39:57.325 you know, even though we're
NOTE Confidence: 0.98110217

00:39:57.325 --> 00:39:58.685 we're intending to shrink the
NOTE Confidence: 0.98110217

00:39:58.685 --> 00:39:59.805 tumor and maybe having a
NOTE Confidence: 0.98110217

00:39:59.805 --> 00:40:00.545 good response,
NOTE Confidence: 0.9594116

00:40:00.925 --> 00:40:02.660 but, again, not everyone

NOTE Confidence: 0.93900555

00:40:03.359 --> 00:40:04.400 is gonna have a great

NOTE Confidence: 0.93900555

00:40:04.400 --> 00:40:04.900 response.

NOTE Confidence: 0.9706152

00:40:05.680 --> 00:40:06.800 And we're finding that out

NOTE Confidence: 0.9706152

00:40:06.800 --> 00:40:07.920 earlier too, so we can

NOTE Confidence: 0.9706152

00:40:07.920 --> 00:40:09.599 start thinking about what's the

NOTE Confidence: 0.9706152

00:40:09.599 --> 00:40:11.359 next thing. Okay. And that

NOTE Confidence: 0.9706152

00:40:11.359 --> 00:40:13.300 also becomes important and valuable.

NOTE Confidence: 0.97146267

00:40:15.595 --> 00:40:17.535 So just to to conclude,

NOTE Confidence: 0.97146267

00:40:17.675 --> 00:40:18.815 you know, there's other

NOTE Confidence: 0.98939735

00:40:19.355 --> 00:40:20.715 types of recipes that are

NOTE Confidence: 0.98939735

00:40:20.715 --> 00:40:21.614 being investigated.

NOTE Confidence: 0.962963

00:40:22.235 --> 00:40:23.835 Right. So there's another type

NOTE Confidence: 0.962963

00:40:23.835 --> 00:40:25.355 that some people here may

NOTE Confidence: 0.962963

00:40:25.355 --> 00:40:26.555 have been exposed to something

NOTE Confidence: 0.962963

00:40:26.555 --> 00:40:28.260 called lag three. There's a

NOTE Confidence: 0.962963

00:40:28.260 --> 00:40:29.540 couple of different companies with

NOTE Confidence: 0.962963

00:40:29.540 --> 00:40:30.440 different versions

NOTE Confidence: 0.9281006

00:40:30.980 --> 00:40:32.900 that's ongoing to see is

NOTE Confidence: 0.9281006

00:40:32.900 --> 00:40:34.260 that a better balance between

NOTE Confidence: 0.9281006

00:40:34.260 --> 00:40:35.780 getting a good response and

NOTE Confidence: 0.9281006

00:40:35.780 --> 00:40:36.840 less side effect.

NOTE Confidence: 0.97950697

00:40:37.780 --> 00:40:39.219 There's gonna be a big

NOTE Confidence: 0.97950697

00:40:39.219 --> 00:40:41.219 study that changed even how

NOTE Confidence: 0.97950697

00:40:41.219 --> 00:40:42.855 we manage people's lymph nodes.

NOTE Confidence: 0.97950697

00:40:42.855 --> 00:40:43.815 And now in the setting

NOTE Confidence: 0.97950697

00:40:43.815 --> 00:40:44.935 of people who have lymph

NOTE Confidence: 0.97950697

00:40:44.935 --> 00:40:46.155 nodes that we can feel,

NOTE Confidence: 0.97950697

00:40:46.295 --> 00:40:47.195 they get therapy.

NOTE Confidence: 0.98832566

00:40:47.735 --> 00:40:48.614 As a surgeon, do I

NOTE Confidence: 0.98832566

00:40:48.614 --> 00:40:49.255 have to take them all

NOTE Confidence: 0.98832566

00:40:49.255 --> 00:40:49.755 out?

NOTE Confidence: 0.97862023
00:40:50.135 --> 00:40:51.175 Am I are you gonna
NOTE Confidence: 0.97862023
00:40:51.175 --> 00:40:52.535 live longer and live better
NOTE Confidence: 0.97862023
00:40:52.535 --> 00:40:53.675 if I do that?
NOTE Confidence: 0.9980469
00:40:54.215 --> 00:40:54.715 Or
NOTE Confidence: 0.9569624
00:40:55.280 --> 00:40:56.239 maybe if you started with
NOTE Confidence: 0.9569624
00:40:56.239 --> 00:40:56.880 one or two, do I
NOTE Confidence: 0.9569624
00:40:56.880 --> 00:40:57.680 just take the ones that
NOTE Confidence: 0.9569624
00:40:57.680 --> 00:40:58.520 we know and we leave
NOTE Confidence: 0.9569624
00:40:58.520 --> 00:40:59.280 the rest of the lymph
NOTE Confidence: 0.9569624
00:40:59.280 --> 00:41:00.560 nodes? Almost what I do
NOTE Confidence: 0.9569624
00:41:00.560 --> 00:41:01.680 when I do a central
NOTE Confidence: 0.9569624
00:41:01.680 --> 00:41:03.060 node biopsy on folks.
NOTE Confidence: 0.89763683
00:41:03.599 --> 00:41:05.280 There's other blood markers again
NOTE Confidence: 0.89763683
00:41:05.280 --> 00:41:06.560 that people may be hearing
NOTE Confidence: 0.89763683
00:41:06.560 --> 00:41:07.985 a little bit about. I
NOTE Confidence: 0.89763683

00:41:07.985 --> 00:41:09.025 don't know if doctor Tran
NOTE Confidence: 0.89763683

00:41:09.025 --> 00:41:10.785 or doctor Ishizuko mentioned that
NOTE Confidence: 0.89763683

00:41:10.785 --> 00:41:12.725 things like circulating tumor DNA,
NOTE Confidence: 0.89763683

00:41:12.945 --> 00:41:13.445 complementary
NOTE Confidence: 0.96470016

00:41:13.745 --> 00:41:14.864 blood tests that may help
NOTE Confidence: 0.96470016

00:41:14.864 --> 00:41:16.625 us detect things and to
NOTE Confidence: 0.96470016

00:41:16.625 --> 00:41:17.905 say, well, if we see
NOTE Confidence: 0.96470016

00:41:17.905 --> 00:41:18.725 this combination,
NOTE Confidence: 0.9808509

00:41:19.344 --> 00:41:20.625 maybe we should continue to
NOTE Confidence: 0.9808509

00:41:20.625 --> 00:41:22.305 give people treatment, things that
NOTE Confidence: 0.9808509

00:41:22.305 --> 00:41:23.520 we learn, things that we
NOTE Confidence: 0.9808509

00:41:23.520 --> 00:41:24.719 adapt to by the knowledge
NOTE Confidence: 0.9808509

00:41:24.719 --> 00:41:25.540 that we garner.
NOTE Confidence: 0.97857666

00:41:26.480 --> 00:41:27.760 Probably the most important thing
NOTE Confidence: 0.97857666

00:41:27.760 --> 00:41:28.800 is the people who are
NOTE Confidence: 0.97857666

00:41:28.800 --> 00:41:29.620 not responding.

NOTE Confidence: 0.949669
00:41:30.480 --> 00:41:31.360 What should we do for
NOTE Confidence: 0.949669
00:41:31.360 --> 00:41:32.739 them? Right. So that's why
NOTE Confidence: 0.949669
00:41:32.800 --> 00:41:34.239 when we're all done working
NOTE Confidence: 0.949669
00:41:34.239 --> 00:41:35.120 in clinic, all of us
NOTE Confidence: 0.949669
00:41:35.120 --> 00:41:36.204 go to the lab and
NOTE Confidence: 0.949669
00:41:36.204 --> 00:41:37.805 we say, what what's the
NOTE Confidence: 0.949669
00:41:37.805 --> 00:41:38.684 next thing that we can
NOTE Confidence: 0.949669
00:41:38.684 --> 00:41:39.724 do and why we at
NOTE Confidence: 0.949669
00:41:39.724 --> 00:41:41.085 our meetings that everyone's working
NOTE Confidence: 0.949669
00:41:41.085 --> 00:41:42.045 hard to think about? What
NOTE Confidence: 0.949669
00:41:42.045 --> 00:41:42.605 do we do for the
NOTE Confidence: 0.949669
00:41:42.605 --> 00:41:43.645 people we can't help right
NOTE Confidence: 0.949669
00:41:43.645 --> 00:41:44.145 now?
NOTE Confidence: 0.95168304
00:41:45.484 --> 00:41:46.285 Should we do it in
NOTE Confidence: 0.95168304
00:41:46.285 --> 00:41:48.305 people who have bad melanomas
NOTE Confidence: 0.95168304

00:41:48.364 --> 00:41:49.809 that don't go to lymph
NOTE Confidence: 0.95168304

00:41:49.809 --> 00:41:51.089 nodes that start in the
NOTE Confidence: 0.95168304

00:41:51.089 --> 00:41:52.450 skin that are just big
NOTE Confidence: 0.95168304

00:41:52.450 --> 00:41:53.730 and aggressive and we're worried
NOTE Confidence: 0.95168304

00:41:53.730 --> 00:41:54.469 about them?
NOTE Confidence: 0.977946

00:41:54.849 --> 00:41:55.650 That's some of the things
NOTE Confidence: 0.977946

00:41:55.650 --> 00:41:56.789 that are being studied.
NOTE Confidence: 0.92333984

00:41:57.489 --> 00:41:58.690 And again, with everything we
NOTE Confidence: 0.92333984

00:41:58.690 --> 00:42:00.130 wanna figure out as the
NOTE Confidence: 0.92333984

00:42:00.130 --> 00:42:01.190 earliest point
NOTE Confidence: 0.93182373

00:42:01.905 --> 00:42:03.364 whether things are responding.
NOTE Confidence: 0.98153347

00:42:03.745 --> 00:42:04.864 Right? Because those are the
NOTE Confidence: 0.98153347

00:42:04.864 --> 00:42:06.225 people we wanna continue. And
NOTE Confidence: 0.98153347

00:42:06.225 --> 00:42:07.185 again, if we can figure
NOTE Confidence: 0.98153347

00:42:07.185 --> 00:42:08.565 that out, we wanna stop
NOTE Confidence: 0.98153347

00:42:08.705 --> 00:42:10.145 a therapy that's not helping.

NOTE Confidence: 0.98153347
00:42:10.145 --> 00:42:11.344 Right? Because then we're only
NOTE Confidence: 0.98153347
00:42:11.344 --> 00:42:13.665 causing potential harm and not
NOTE Confidence: 0.98153347
00:42:13.665 --> 00:42:14.165 good.
NOTE Confidence: 0.99609375
00:42:14.545 --> 00:42:15.045 So
NOTE Confidence: 0.9976562
00:42:17.460 --> 00:42:18.260 with that, I will leave
NOTE Confidence: 0.9976562
00:42:18.260 --> 00:42:19.560 you with my favorite cartoon.
NOTE Confidence: 0.95996094
00:42:27.780 --> 00:42:28.280 Alright.
NOTE Confidence: 0.92276
00:42:29.135 --> 00:42:30.895 As usual, I speak fast.
NOTE Confidence: 0.92276
00:42:30.895 --> 00:42:31.954 So doctor Tran
NOTE Confidence: 0.9463379
00:42:38.175 --> 00:42:39.795 Kinda wish I had cartoons
NOTE Confidence: 0.9970703
00:42:40.255 --> 00:42:40.755 and
NOTE Confidence: 0.8799316
00:42:41.440 --> 00:42:43.120 pet videos now that again
NOTE Confidence: 0.8799316
00:42:43.280 --> 00:42:45.060 so I'm gonna kinda dovetail
NOTE Confidence: 0.98811495
00:42:45.440 --> 00:42:46.880 along to what doctor Alino
NOTE Confidence: 0.98811495
00:42:46.880 --> 00:42:48.239 had already started. We're gonna
NOTE Confidence: 0.98811495

00:42:48.239 --> 00:42:50.100 be talking about systemic therapies

NOTE Confidence: 0.98811495

00:42:50.160 --> 00:42:51.280 and how we think about

NOTE Confidence: 0.98811495

00:42:51.280 --> 00:42:52.580 treating advanced melanomas.

NOTE Confidence: 0.9557945

00:42:53.325 --> 00:42:54.364 I think one of the

NOTE Confidence: 0.9557945

00:42:54.364 --> 00:42:56.125 main takeaways that I want

NOTE Confidence: 0.9557945

00:42:56.125 --> 00:42:58.204 to familiarize everyone with tonight

NOTE Confidence: 0.9557945

00:42:58.204 --> 00:42:59.325 is a lot of these

NOTE Confidence: 0.9557945

00:42:59.325 --> 00:43:00.204 drugs that you may have

NOTE Confidence: 0.9557945

00:43:00.204 --> 00:43:01.645 heard about on the news

NOTE Confidence: 0.9557945

00:43:01.645 --> 00:43:02.925 or in clinic from your

NOTE Confidence: 0.9557945

00:43:02.925 --> 00:43:04.625 doctors, kinda recognizing

NOTE Confidence: 0.9867188

00:43:05.165 --> 00:43:06.765 exactly how they work, what

NOTE Confidence: 0.9867188

00:43:06.765 --> 00:43:08.219 kind of class of drugs

NOTE Confidence: 0.96456105

00:43:08.940 --> 00:43:10.480 they are, when we determine

NOTE Confidence: 0.96456105

00:43:10.540 --> 00:43:12.700 using one versus another because

NOTE Confidence: 0.96456105

00:43:12.700 --> 00:43:14.300 there are differences when one

NOTE Confidence: 0.96456105

00:43:14.300 --> 00:43:15.760 is actually more potent,

NOTE Confidence: 0.93625

00:43:16.140 --> 00:43:18.219 more effective, less toxic versus

NOTE Confidence: 0.93625

00:43:18.219 --> 00:43:19.580 another. And then how we

NOTE Confidence: 0.93625

00:43:19.580 --> 00:43:21.680 also think about sequencing therapies

NOTE Confidence: 0.93625

00:43:21.739 --> 00:43:22.700 too to carry on what

NOTE Confidence: 0.93625

00:43:22.700 --> 00:43:24.525 doctor Lina had spoken about.

NOTE Confidence: 0.9940834

00:43:24.905 --> 00:43:26.505 And so melanoma, you know,

NOTE Confidence: 0.9940834

00:43:26.505 --> 00:43:28.025 we stage melanomas to try

NOTE Confidence: 0.9940834

00:43:28.025 --> 00:43:29.065 to figure out what we

NOTE Confidence: 0.9940834

00:43:29.065 --> 00:43:30.185 need to do after the

NOTE Confidence: 0.9940834

00:43:30.185 --> 00:43:31.305 fact. Right? How do we

NOTE Confidence: 0.9940834

00:43:31.305 --> 00:43:32.105 keep it at bay? How

NOTE Confidence: 0.9940834

00:43:32.105 --> 00:43:33.225 do we prevent it from

NOTE Confidence: 0.9940834

00:43:33.225 --> 00:43:34.045 coming back?

NOTE Confidence: 0.98545796

00:43:34.344 --> 00:43:35.965 So for stage one melanomas,

NOTE Confidence: 0.98545796

00:43:36.185 --> 00:43:37.965 you know, the overall survival
NOTE Confidence: 0.98545796

00:43:38.105 --> 00:43:39.065 is pretty good.
NOTE Confidence: 0.9633952

00:43:39.920 --> 00:43:41.600 Ninety nine percent of five
NOTE Confidence: 0.9633952

00:43:41.600 --> 00:43:43.280 years, ninety eight percent of
NOTE Confidence: 0.9633952

00:43:43.280 --> 00:43:44.880 people are alive without having,
NOTE Confidence: 0.97021484

00:43:45.440 --> 00:43:46.660 succumb to their melanoma
NOTE Confidence: 0.98141277

00:43:46.960 --> 00:43:48.820 for early stage one a's.
NOTE Confidence: 0.9929199

00:43:49.120 --> 00:43:50.660 And you can see oftentimes
NOTE Confidence: 0.9336914

00:43:50.960 --> 00:43:52.900 as the stage increases, meaning
NOTE Confidence: 0.97961426

00:43:53.515 --> 00:43:55.355 stage two melanomas being thicker,
NOTE Confidence: 0.97961426

00:43:55.355 --> 00:43:56.415 stage three melanomas
NOTE Confidence: 0.9847276

00:43:57.035 --> 00:43:58.555 involving those lymph nodes, stage
NOTE Confidence: 0.9847276

00:43:58.555 --> 00:44:00.335 four melanomas become metastatic
NOTE Confidence: 0.7414551

00:44:00.795 --> 00:44:01.695 that unfortunately
NOTE Confidence: 0.93497723

00:44:02.475 --> 00:44:04.715 those survival outcomes do drop
NOTE Confidence: 0.93497723

00:44:04.715 --> 00:44:05.215 off.

NOTE Confidence: 0.9975586
00:44:06.260 --> 00:44:08.119 So how can we intervene?
NOTE Confidence: 0.8891267
00:44:08.580 --> 00:44:10.500 So again, upfront early stage
NOTE Confidence: 0.8891267
00:44:10.500 --> 00:44:12.099 melanomas, they go directly to
NOTE Confidence: 0.8891267
00:44:12.099 --> 00:44:14.099 my surgical colleagues, doctor Alina,
NOTE Confidence: 0.8891267
00:44:14.099 --> 00:44:15.000 doctor Westlake.
NOTE Confidence: 0.9635315
00:44:15.460 --> 00:44:16.820 They just get cut out,
NOTE Confidence: 0.9635315
00:44:16.820 --> 00:44:17.800 you know, hopefully,
NOTE Confidence: 0.97462684
00:44:18.660 --> 00:44:19.700 you know, we can figure
NOTE Confidence: 0.97462684
00:44:19.700 --> 00:44:20.964 out, we can get get
NOTE Confidence: 0.97462684
00:44:20.964 --> 00:44:22.565 control over that. There are
NOTE Confidence: 0.97462684
00:44:22.565 --> 00:44:24.405 specific nomograms that are actually
NOTE Confidence: 0.97462684
00:44:24.405 --> 00:44:26.165 publicly available. We just plug
NOTE Confidence: 0.97462684
00:44:26.165 --> 00:44:27.065 in the thickness,
NOTE Confidence: 0.97447294
00:44:27.844 --> 00:44:29.605 some risk factors associated with
NOTE Confidence: 0.97447294
00:44:29.605 --> 00:44:31.045 the pathology and figure out
NOTE Confidence: 0.97447294

00:44:31.045 --> 00:44:32.665 exactly what the risk is
NOTE Confidence: 0.97447294

00:44:32.870 --> 00:44:34.330 for that limp that melanoma
NOTE Confidence: 0.97447294

00:44:34.469 --> 00:44:35.750 to travel into the lymph
NOTE Confidence: 0.97447294

00:44:35.750 --> 00:44:37.190 node to then just make
NOTE Confidence: 0.97447294

00:44:37.190 --> 00:44:38.810 a very personalized decision
NOTE Confidence: 0.9615304

00:44:39.110 --> 00:44:39.989 about whether or not a
NOTE Confidence: 0.9615304

00:44:39.989 --> 00:44:41.770 lymph node biopsy is needed.
NOTE Confidence: 0.9615304

00:44:41.910 --> 00:44:43.350 Because we wanna we don't
NOTE Confidence: 0.9615304

00:44:43.350 --> 00:44:45.270 necessarily want to recommend more
NOTE Confidence: 0.9615304

00:44:45.270 --> 00:44:46.950 surgery. That's not gonna change
NOTE Confidence: 0.9615304

00:44:46.950 --> 00:44:48.170 the clinical outcome.
NOTE Confidence: 0.91625977

00:44:48.924 --> 00:44:49.744 Thicker melanomas,
NOTE Confidence: 0.9908447

00:44:50.045 --> 00:44:51.505 again, those get excisions
NOTE Confidence: 0.8892822

00:44:51.885 --> 00:44:53.244 plus or minus the sentinel
NOTE Confidence: 0.8892822

00:44:53.244 --> 00:44:54.224 lymph node biopsy.
NOTE Confidence: 0.9722013

00:44:54.765 --> 00:44:56.285 And then right now we're

NOTE Confidence: 0.9722013

00:44:56.285 --> 00:44:57.744 trying to figure out, okay,

NOTE Confidence: 0.9722013

00:44:57.885 --> 00:44:59.664 after that stage two melanoma

NOTE Confidence: 0.9722013

00:44:59.805 --> 00:45:01.404 comes out, do we offer

NOTE Confidence: 0.9722013

00:45:01.404 --> 00:45:02.385 additional treatments

NOTE Confidence: 0.9089152

00:45:02.960 --> 00:45:04.400 due to help minimize the

NOTE Confidence: 0.9089152

00:45:04.400 --> 00:45:05.380 risk of recurrence?

NOTE Confidence: 0.9677327

00:45:05.920 --> 00:45:08.079 For stage three melanoma, certainly,

NOTE Confidence: 0.9677327

00:45:08.079 --> 00:45:09.539 that was the the paradigm.

NOTE Confidence: 0.9511497

00:45:10.559 --> 00:45:12.079 Now as we're learning more

NOTE Confidence: 0.9511497

00:45:12.079 --> 00:45:13.680 about how to treat these

NOTE Confidence: 0.9511497

00:45:13.680 --> 00:45:14.180 upfront,

NOTE Confidence: 0.99296874

00:45:14.559 --> 00:45:15.839 maybe a little bit of

NOTE Confidence: 0.99296874

00:45:15.839 --> 00:45:18.099 systemic therapy followed by surgery

NOTE Confidence: 0.975

00:45:18.535 --> 00:45:19.655 to help minimize the long

NOTE Confidence: 0.975

00:45:19.655 --> 00:45:21.094 term need for any additional

NOTE Confidence: 0.975

00:45:21.094 --> 00:45:23.114 therapy would actually be beneficial.

NOTE Confidence: 0.9732948

00:45:23.415 --> 00:45:24.535 And then we'll also talk

NOTE Confidence: 0.9732948

00:45:24.535 --> 00:45:26.215 about stage four disease or

NOTE Confidence: 0.9732948

00:45:26.215 --> 00:45:27.835 basically distant metastatic

NOTE Confidence: 0.98367745

00:45:28.295 --> 00:45:30.155 disease. So, basically, the melanoma

NOTE Confidence: 0.98367745

00:45:30.215 --> 00:45:31.415 has now traveled to other

NOTE Confidence: 0.98367745

00:45:31.415 --> 00:45:32.555 sites in the body.

NOTE Confidence: 0.9916687

00:45:33.750 --> 00:45:34.870 So when we think about

NOTE Confidence: 0.9916687

00:45:34.870 --> 00:45:36.730 melanoma specific survival,

NOTE Confidence: 0.9713542

00:45:37.030 --> 00:45:38.730 again, we're thankfully

NOTE Confidence: 0.936948

00:45:39.270 --> 00:45:41.130 not focused on those individuals

NOTE Confidence: 0.936948

00:45:41.270 --> 00:45:43.430 who saw doctor Leventhal had

NOTE Confidence: 0.936948

00:45:43.430 --> 00:45:45.190 their early stage melanoma that

NOTE Confidence: 0.936948

00:45:45.190 --> 00:45:46.790 was very thick or sorry,

NOTE Confidence: 0.936948

00:45:46.790 --> 00:45:47.850 very thin excised.

NOTE Confidence: 0.99667966

00:45:48.315 --> 00:45:50.255 We're kind of focusing on

NOTE Confidence: 0.99667966
00:45:50.315 --> 00:45:51.594 where we can move the
NOTE Confidence: 0.99667966
00:45:51.594 --> 00:45:53.055 field, where we can make
NOTE Confidence: 0.9983724
00:45:53.355 --> 00:45:55.594 changes to help improve patient
NOTE Confidence: 0.9983724
00:45:55.594 --> 00:45:56.094 outcomes
NOTE Confidence: 0.8951416
00:45:56.474 --> 00:45:57.214 long term.
NOTE Confidence: 0.85028076
00:45:57.594 --> 00:45:58.335 And so,
NOTE Confidence: 0.9677002
00:45:58.714 --> 00:46:00.555 yeah, past studies have shown
NOTE Confidence: 0.9677002
00:46:00.555 --> 00:46:03.295 sometimes earlier interventions, not waiting
NOTE Confidence: 0.9317491
00:46:03.690 --> 00:46:05.369 necessarily until the diseases come
NOTE Confidence: 0.9317491
00:46:05.369 --> 00:46:07.230 back, but actually prophylactically
NOTE Confidence: 0.9106038
00:46:07.690 --> 00:46:09.130 just starting some form of
NOTE Confidence: 0.9106038
00:46:09.130 --> 00:46:09.630 treatment
NOTE Confidence: 0.9820801
00:46:09.930 --> 00:46:11.630 for these higher risk melanomas
NOTE Confidence: 0.98977864
00:46:11.930 --> 00:46:13.609 may actually be beneficial in
NOTE Confidence: 0.98977864
00:46:13.609 --> 00:46:15.310 decreasing the risk for recurrence.
NOTE Confidence: 0.9926758

00:46:15.945 --> 00:46:17.005 And so it's always,
NOTE Confidence: 0.91259766

00:46:18.665 --> 00:46:19.165 counterbalanced
NOTE Confidence: 0.9975586

00:46:19.465 --> 00:46:20.205 by toxicity
NOTE Confidence: 0.9558919

00:46:20.505 --> 00:46:22.125 too. Everything that we prescribe
NOTE Confidence: 0.9558919

00:46:22.185 --> 00:46:23.645 has certain side effects.
NOTE Confidence: 0.99557674

00:46:23.945 --> 00:46:25.385 And so does that make
NOTE Confidence: 0.99557674

00:46:25.385 --> 00:46:26.825 sense to the individual in
NOTE Confidence: 0.99557674

00:46:26.825 --> 00:46:28.344 front of us? Do those
NOTE Confidence: 0.99557674

00:46:28.344 --> 00:46:29.085 side effects
NOTE Confidence: 0.9714966

00:46:29.450 --> 00:46:31.150 outweigh the potential benefits,
NOTE Confidence: 0.73217773

00:46:31.930 --> 00:46:32.430 verse,
NOTE Confidence: 0.8795166

00:46:33.049 --> 00:46:33.789 vice versa.
NOTE Confidence: 0.89479166

00:46:34.650 --> 00:46:36.170 And I'm sorry again, they're
NOTE Confidence: 0.89479166

00:46:36.170 --> 00:46:37.609 like Doctor. Levinthal, there's a
NOTE Confidence: 0.89479166

00:46:37.609 --> 00:46:38.809 little bit of a disconnect,
NOTE Confidence: 0.96187335

00:46:39.130 --> 00:46:40.650 when the slides were compiled

NOTE Confidence: 0.96187335
00:46:40.650 --> 00:46:41.150 here.
NOTE Confidence: 0.9465067
00:46:41.769 --> 00:46:43.585 When we, we also then
NOTE Confidence: 0.9465067
00:46:43.585 --> 00:46:45.585 do consider new adjuvant treatment
NOTE Confidence: 0.9465067
00:46:45.585 --> 00:46:47.185 because these drugs can work
NOTE Confidence: 0.9465067
00:46:47.185 --> 00:46:48.965 very well in the metastatic
NOTE Confidence: 0.99790955
00:46:49.265 --> 00:46:50.545 setting. We're trying to see
NOTE Confidence: 0.99790955
00:46:50.545 --> 00:46:51.745 if they can work even
NOTE Confidence: 0.99790955
00:46:51.745 --> 00:46:53.745 better in the stage three
NOTE Confidence: 0.99790955
00:46:53.745 --> 00:46:54.245 setting
NOTE Confidence: 0.9583915
00:46:54.625 --> 00:46:56.145 or even moving them up
NOTE Confidence: 0.9583915
00:46:56.145 --> 00:46:57.344 front, giving a little bit
NOTE Confidence: 0.9583915
00:46:57.344 --> 00:46:58.989 of treatment followed by
NOTE Confidence: 0.9414204
00:46:59.450 --> 00:47:01.450 surgery. And then deciding based
NOTE Confidence: 0.9414204
00:47:01.450 --> 00:47:02.890 on the pathology, whether or
NOTE Confidence: 0.9414204
00:47:02.890 --> 00:47:04.750 not additional treatment is needed.
NOTE Confidence: 0.9414204

00:47:05.049 --> 00:47:07.210 Now we always hark about
NOTE Confidence: 0.9414204

00:47:07.210 --> 00:47:09.369 tumor profiling and these more
NOTE Confidence: 0.9414204

00:47:09.369 --> 00:47:10.969 advanced melanomas. You know, we
NOTE Confidence: 0.9414204

00:47:10.969 --> 00:47:12.089 gotta wait for the tumor
NOTE Confidence: 0.9414204

00:47:12.089 --> 00:47:13.675 profiling to come back before
NOTE Confidence: 0.9414204

00:47:13.675 --> 00:47:14.815 we can make a treatment
NOTE Confidence: 0.9414204

00:47:14.875 --> 00:47:15.375 recommendation.
NOTE Confidence: 0.98504084

00:47:16.234 --> 00:47:18.155 That's because about in half
NOTE Confidence: 0.98504084

00:47:18.155 --> 00:47:20.234 of skin related UV exposed
NOTE Confidence: 0.98504084

00:47:20.234 --> 00:47:20.734 melanomas,
NOTE Confidence: 0.99483234

00:47:21.594 --> 00:47:22.875 people can have a BRAF
NOTE Confidence: 0.99483234

00:47:22.875 --> 00:47:23.375 mutation
NOTE Confidence: 0.95741105

00:47:23.675 --> 00:47:24.555 and that can be a
NOTE Confidence: 0.95741105

00:47:24.555 --> 00:47:25.915 game changer when we talk
NOTE Confidence: 0.95741105

00:47:25.915 --> 00:47:27.660 about adjuvant treatment or treatment
NOTE Confidence: 0.95741105

00:47:27.660 --> 00:47:29.180 after surgery to help minimize

NOTE Confidence: 0.95741105
00:47:29.180 --> 00:47:30.239 the risk of recurrence.
NOTE Confidence: 0.98652345
00:47:31.580 --> 00:47:34.080 BRAF mutations are unfortunately exclusive
NOTE Confidence: 0.93885386
00:47:34.540 --> 00:47:35.980 to NRAS mutations. So you
NOTE Confidence: 0.93885386
00:47:35.980 --> 00:47:37.340 have one or the other
NOTE Confidence: 0.93885386
00:47:37.340 --> 00:47:37.840 upfront.
NOTE Confidence: 0.9948033
00:47:38.380 --> 00:47:40.060 You know, sometimes we have
NOTE Confidence: 0.9948033
00:47:40.060 --> 00:47:41.359 individuals who
NOTE Confidence: 0.98706055
00:47:41.715 --> 00:47:42.114 develop,
NOTE Confidence: 0.8556858
00:47:42.675 --> 00:47:44.295 nodal metal melanoma,
NOTE Confidence: 0.98958915
00:47:44.675 --> 00:47:45.715 and we don't really know
NOTE Confidence: 0.98958915
00:47:45.715 --> 00:47:47.495 where the primary site is.
NOTE Confidence: 0.98958915
00:47:47.555 --> 00:47:49.175 So sometimes these mutations
NOTE Confidence: 0.96542966
00:47:49.715 --> 00:47:51.475 also help us to decipher
NOTE Confidence: 0.96542966
00:47:51.475 --> 00:47:53.575 where that melanoma originated from.
NOTE Confidence: 0.97646487
00:47:53.880 --> 00:47:56.140 Sometimes melanomas can regress automatically,
NOTE Confidence: 0.8126831

00:47:57.160 --> 00:47:58.539 with a with an,
NOTE Confidence: 0.93603516

00:47:59.480 --> 00:48:00.859 immune response upfront.
NOTE Confidence: 0.9424874

00:48:01.799 --> 00:48:03.480 Acral melanomas tend to have
NOTE Confidence: 0.9424874

00:48:03.480 --> 00:48:04.219 kit mutations.
NOTE Confidence: 0.9560044

00:48:04.760 --> 00:48:07.000 Mucosal melanomas can oftentimes have
NOTE Confidence: 0.9560044

00:48:07.000 --> 00:48:08.619 kit mutations, and then uveal
NOTE Confidence: 0.9560044

00:48:08.680 --> 00:48:10.194 melanoma is its own separate
NOTE Confidence: 0.9560044

00:48:10.194 --> 00:48:12.035 thing. It generally has a
NOTE Confidence: 0.9560044

00:48:12.035 --> 00:48:12.535 distinct,
NOTE Confidence: 0.9975586

00:48:12.915 --> 00:48:15.335 mutational profile unique to that.
NOTE Confidence: 0.9678844

00:48:17.075 --> 00:48:18.934 The other thing aside from
NOTE Confidence: 0.9678844

00:48:19.155 --> 00:48:21.335 tumor mutational status, that BRAF
NOTE Confidence: 0.9678844

00:48:21.395 --> 00:48:21.895 mutation
NOTE Confidence: 0.94382054

00:48:22.594 --> 00:48:25.175 is tumor mutational burden too.
NOTE Confidence: 0.94382054

00:48:25.340 --> 00:48:26.400 So as you can imagine
NOTE Confidence: 0.94382054

00:48:26.620 --> 00:48:28.300 over that chronic lifetime of

NOTE Confidence: 0.94382054
00:48:28.300 --> 00:48:29.840 unfortunate sun exposure,
NOTE Confidence: 0.4038086
00:48:30.620 --> 00:48:31.120 mutations
NOTE Confidence: 0.94299316
00:48:31.500 --> 00:48:32.860 add up and so that
NOTE Confidence: 0.94299316
00:48:32.860 --> 00:48:34.540 what that translates to is,
NOTE Confidence: 0.94401854
00:48:34.940 --> 00:48:36.460 the increase in number of
NOTE Confidence: 0.94401854
00:48:36.460 --> 00:48:38.625 mutations per megabase of DNA.
NOTE Confidence: 0.93690324
00:48:39.485 --> 00:48:41.965 The higher you have basically
NOTE Confidence: 0.93690324
00:48:41.965 --> 00:48:43.325 the more mutations that you
NOTE Confidence: 0.93690324
00:48:43.325 --> 00:48:45.485 have that can increase your
NOTE Confidence: 0.93690324
00:48:45.485 --> 00:48:47.645 chances of actually responding to
NOTE Confidence: 0.93690324
00:48:47.645 --> 00:48:49.165 immune therapy, it's a catch
NOTE Confidence: 0.93690324
00:48:49.165 --> 00:48:50.040 twenty two.
NOTE Confidence: 0.9689244
00:48:51.000 --> 00:48:52.440 This actually led to the
NOTE Confidence: 0.9689244
00:48:52.440 --> 00:48:55.000 first tumor agnostic approval for
NOTE Confidence: 0.9689244
00:48:55.000 --> 00:48:56.780 an anti cancer treatment.
NOTE Confidence: 0.93746287

00:48:57.239 --> 00:48:58.040 So this led to the
NOTE Confidence: 0.93746287

00:48:58.040 --> 00:49:00.460 approval of immune therapy, regardless
NOTE Confidence: 0.93746287

00:49:00.520 --> 00:49:01.640 of the cancer type. If
NOTE Confidence: 0.93746287

00:49:01.640 --> 00:49:02.680 you had a high enough
NOTE Confidence: 0.93746287

00:49:02.680 --> 00:49:04.219 tumor mutational burden,
NOTE Confidence: 0.88549805

00:49:04.715 --> 00:49:05.215 melanomas
NOTE Confidence: 0.9570516

00:49:05.515 --> 00:49:07.275 given that sun exposure is,
NOTE Confidence: 0.9570516

00:49:07.275 --> 00:49:08.575 has one of the highest
NOTE Confidence: 0.9570516

00:49:08.635 --> 00:49:09.695 mutational burdens.
NOTE Confidence: 0.96533203

00:49:11.915 --> 00:49:12.895 So immunotherapy,
NOTE Confidence: 0.9647827

00:49:13.594 --> 00:49:14.715 you know, we, we hear
NOTE Confidence: 0.9647827

00:49:14.715 --> 00:49:16.235 a lot about different types
NOTE Confidence: 0.9647827

00:49:16.235 --> 00:49:17.675 of immune therapy, but there's
NOTE Confidence: 0.9647827

00:49:17.675 --> 00:49:19.219 actually a number of different
NOTE Confidence: 0.9647827

00:49:19.219 --> 00:49:20.680 flavors of immune therapy.
NOTE Confidence: 0.9551866

00:49:21.300 --> 00:49:22.980 There's what we consider those

NOTE Confidence: 0.9551866

00:49:22.980 --> 00:49:25.319 immune checkpoint inhibitors, those monoclonal

NOTE Confidence: 0.9551866

00:49:25.540 --> 00:49:27.319 antibodies that we give Ivy

NOTE Confidence: 0.9551866

00:49:27.380 --> 00:49:28.359 every few weeks.

NOTE Confidence: 0.99316406

00:49:28.819 --> 00:49:30.839 There's also cytokine therapies,

NOTE Confidence: 0.9763477

00:49:31.140 --> 00:49:32.114 which is kind of the

NOTE Confidence: 0.9763477

00:49:32.114 --> 00:49:33.715 old version of immune therapy

NOTE Confidence: 0.9763477

00:49:33.715 --> 00:49:35.955 that's now resurfacing and having

NOTE Confidence: 0.9763477

00:49:35.955 --> 00:49:37.715 a renewed life in terms

NOTE Confidence: 0.9763477

00:49:37.715 --> 00:49:39.895 of the emerging clinical trials.

NOTE Confidence: 0.90979004

00:49:40.195 --> 00:49:41.575 There is now approvals

NOTE Confidence: 0.81933594

00:49:41.875 --> 00:49:43.575 in adopted cell transfer

NOTE Confidence: 0.8140869

00:49:43.875 --> 00:49:45.555 to so t cell based

NOTE Confidence: 0.8140869

00:49:45.555 --> 00:49:46.055 therapies,

NOTE Confidence: 0.5814209

00:49:46.355 --> 00:49:47.175 till therapies.

NOTE Confidence: 0.9996948

00:49:48.270 --> 00:49:50.190 There's cancer vaccines that are

NOTE Confidence: 0.9996948

00:49:50.190 --> 00:49:51.330 in clinical trials
NOTE Confidence: 0.98287964

00:49:51.630 --> 00:49:53.570 there's also oncolytic virus
NOTE Confidence: 0.99960935

00:49:54.190 --> 00:49:55.969 all of these different mechanisms
NOTE Confidence: 0.9984225

00:49:56.830 --> 00:49:58.750 basically help to augment your
NOTE Confidence: 0.9984225

00:49:58.750 --> 00:50:00.510 own body's ability to fight
NOTE Confidence: 0.9984225

00:50:00.510 --> 00:50:01.410 off the cancer
NOTE Confidence: 0.99243164

00:50:03.045 --> 00:50:04.645 So there was a dearth
NOTE Confidence: 0.99243164

00:50:04.645 --> 00:50:05.145 of
NOTE Confidence: 0.98361546

00:50:05.445 --> 00:50:07.525 systemic therapy options thirty years
NOTE Confidence: 0.98361546

00:50:07.525 --> 00:50:08.984 ago. It was chemotherapy
NOTE Confidence: 0.89538574

00:50:09.605 --> 00:50:11.385 and stage four melanomas
NOTE Confidence: 0.9753418

00:50:12.085 --> 00:50:12.905 were inevitably
NOTE Confidence: 0.9946289

00:50:13.285 --> 00:50:13.785 fatal.
NOTE Confidence: 0.9709329

00:50:14.769 --> 00:50:16.690 Since then though, thankfully with
NOTE Confidence: 0.9709329

00:50:16.690 --> 00:50:18.369 the advent of immune therapy,
NOTE Confidence: 0.9709329

00:50:18.369 --> 00:50:20.369 immune checkpoint inhibitors, we've had

NOTE Confidence: 0.9709329
00:50:20.369 --> 00:50:21.349 this resurgence
NOTE Confidence: 0.847602
00:50:22.130 --> 00:50:24.130 of in our research interest
NOTE Confidence: 0.847602
00:50:24.130 --> 00:50:25.269 in how do we
NOTE Confidence: 0.9911499
00:50:25.569 --> 00:50:27.109 utilize the immune system,
NOTE Confidence: 0.980788
00:50:27.575 --> 00:50:29.015 leverage it to our advantage,
NOTE Confidence: 0.980788
00:50:29.015 --> 00:50:30.775 to attack and directly destroy
NOTE Confidence: 0.980788
00:50:30.775 --> 00:50:32.855 melanoma cells. So thankfully in
NOTE Confidence: 0.980788
00:50:32.855 --> 00:50:34.855 the past fifteen years, we've
NOTE Confidence: 0.980788
00:50:34.855 --> 00:50:35.974 seen a lot of new
NOTE Confidence: 0.980788
00:50:35.974 --> 00:50:36.474 developments,
NOTE Confidence: 0.9565918
00:50:36.934 --> 00:50:39.194 drug developments, small molecule inhibitors,
NOTE Confidence: 0.99848086
00:50:40.055 --> 00:50:41.894 that will help to combat
NOTE Confidence: 0.99848086
00:50:41.894 --> 00:50:42.394 melanoma.
NOTE Confidence: 0.94384766
00:50:43.190 --> 00:50:43.690 So,
NOTE Confidence: 0.9606468
00:50:44.630 --> 00:50:46.230 you know, ongoing research as
NOTE Confidence: 0.9606468

00:50:46.230 --> 00:50:47.750 evidenced by the ellipsis here.

NOTE Confidence: 0.9606468

00:50:47.750 --> 00:50:48.890 So more to come,

NOTE Confidence: 0.8038885

00:50:49.270 --> 00:50:51.430 recently there's optula, which is

NOTE Confidence: 0.8038885

00:50:51.430 --> 00:50:53.510 combination anti PD one anti

NOTE Confidence: 0.8038885

00:50:53.510 --> 00:50:55.430 lag three there's to benefit

NOTE Confidence: 0.8038885

00:50:55.430 --> 00:50:56.630 us that got approved for

NOTE Confidence: 0.8038885

00:50:56.630 --> 00:50:57.610 uveal melanomas.

NOTE Confidence: 0.9991862

00:50:58.605 --> 00:50:59.505 And then finally,

NOTE Confidence: 0.70614284

00:50:59.965 --> 00:51:01.805 lip Aliso, which is till

NOTE Confidence: 0.70614284

00:51:01.805 --> 00:51:02.305 therapy.

NOTE Confidence: 0.9678596

00:51:03.645 --> 00:51:04.844 So, as I said, there's

NOTE Confidence: 0.9678596

00:51:04.844 --> 00:51:06.364 different treatment buckets and a

NOTE Confidence: 0.9678596

00:51:06.364 --> 00:51:07.645 lot of people come to

NOTE Confidence: 0.9678596

00:51:07.645 --> 00:51:09.085 me and say, oh, my

NOTE Confidence: 0.9678596

00:51:09.085 --> 00:51:10.844 insurance labeled the immune therapy

NOTE Confidence: 0.9678596

00:51:10.844 --> 00:51:12.800 as chemotherapy. I'm confused. What

NOTE Confidence: 0.9678596
00:51:12.800 --> 00:51:13.940 am I getting exactly?
NOTE Confidence: 0.9671631
00:51:14.640 --> 00:51:15.540 So chemotherapy,
NOTE Confidence: 0.9994575
00:51:16.239 --> 00:51:18.000 we talk about it only
NOTE Confidence: 0.9994575
00:51:18.000 --> 00:51:19.620 in the setting where
NOTE Confidence: 0.9879325
00:51:20.000 --> 00:51:21.440 all else fails, just because
NOTE Confidence: 0.9879325
00:51:21.440 --> 00:51:22.180 we know
NOTE Confidence: 0.876123
00:51:22.560 --> 00:51:23.780 a lot of these treatments,
NOTE Confidence: 0.876123
00:51:23.840 --> 00:51:24.340 carbotaxel,
NOTE Confidence: 0.5055339
00:51:24.880 --> 00:51:25.380 carbazine,
NOTE Confidence: 0.8442383
00:51:26.705 --> 00:51:27.205 temozolomide
NOTE Confidence: 0.58691406
00:51:27.665 --> 00:51:28.165 temodar
NOTE Confidence: 0.9871826
00:51:29.025 --> 00:51:30.565 really have limited efficacy
NOTE Confidence: 0.958374
00:51:30.945 --> 00:51:32.225 they're not really seen as
NOTE Confidence: 0.958374
00:51:32.225 --> 00:51:32.725 curative
NOTE Confidence: 0.9772312
00:51:33.265 --> 00:51:35.205 and so they're also toxic
NOTE Confidence: 0.9772312

00:51:35.344 --> 00:51:36.465 so we kind of reserve
NOTE Confidence: 0.9772312

00:51:36.465 --> 00:51:37.665 them kind of as a
NOTE Confidence: 0.9772312

00:51:37.665 --> 00:51:39.505 last resort it's really not
NOTE Confidence: 0.9772312

00:51:39.505 --> 00:51:40.565 a viable option
NOTE Confidence: 0.9592285

00:51:41.400 --> 00:51:43.180 Then we have targeted therapies.
NOTE Confidence: 0.9592285

00:51:43.239 --> 00:51:44.460 So it's targeted
NOTE Confidence: 0.98931885

00:51:44.760 --> 00:51:46.460 specifically towards a mutation.
NOTE Confidence: 0.9964844

00:51:47.000 --> 00:51:48.779 So this is very personalized
NOTE Confidence: 0.95809656

00:51:49.079 --> 00:51:51.160 medicine here. So if you
NOTE Confidence: 0.95809656

00:51:51.160 --> 00:51:53.420 have these mutations then potentially
NOTE Confidence: 0.95809656

00:51:53.559 --> 00:51:54.015 there
NOTE Confidence: 0.9994507

00:51:54.494 --> 00:51:55.775 is a pill that can
NOTE Confidence: 0.9994507

00:51:55.775 --> 00:51:56.835 target that mutation.
NOTE Confidence: 0.92171437

00:51:57.295 --> 00:51:58.494 So the most common one
NOTE Confidence: 0.92171437

00:51:58.494 --> 00:51:59.875 that we see in melanoma
NOTE Confidence: 0.92171437

00:52:00.015 --> 00:52:01.375 are B RAF mutations. So

NOTE Confidence: 0.92171437

00:52:01.375 --> 00:52:02.654 we have B RAF and

NOTE Confidence: 0.92171437

00:52:02.654 --> 00:52:04.974 MEC inhibitors targeting that again,

NOTE Confidence: 0.92171437

00:52:04.974 --> 00:52:06.494 there are kit inhibitors that

NOTE Confidence: 0.92171437

00:52:06.494 --> 00:52:07.775 are NTRK inhibitors that are

NOTE Confidence: 0.92171437

00:52:07.775 --> 00:52:09.394 Ross inhibitors as well.

NOTE Confidence: 0.9667838

00:52:10.469 --> 00:52:11.910 Then there's what we traditionally

NOTE Confidence: 0.9667838

00:52:11.910 --> 00:52:13.610 think of as immune therapy.

NOTE Confidence: 0.9667838

00:52:13.750 --> 00:52:15.369 So drugs like ipinivo,

NOTE Confidence: 0.6815128

00:52:16.390 --> 00:52:17.510 up dual lag, which is

NOTE Confidence: 0.6815128

00:52:17.510 --> 00:52:18.410 nivo rella,

NOTE Confidence: 0.8505781

00:52:18.710 --> 00:52:20.170 and then the single agent

NOTE Confidence: 0.8505781

00:52:20.230 --> 00:52:22.035 anti PD ones, nivo or

NOTE Confidence: 0.8505781

00:52:22.114 --> 00:52:23.094 Keytruda pembrolizumab,

NOTE Confidence: 0.99459404

00:52:23.875 --> 00:52:24.835 and then kind of our

NOTE Confidence: 0.99459404

00:52:24.835 --> 00:52:25.655 old standard,

NOTE Confidence: 0.89294434

00:52:26.035 --> 00:52:27.795 cytokine therapy. So like high
NOTE Confidence: 0.89294434

00:52:27.795 --> 00:52:29.414 dose IL two, for example.
NOTE Confidence: 0.9222005

00:52:29.875 --> 00:52:30.775 And then finally,
NOTE Confidence: 0.8976196

00:52:31.474 --> 00:52:32.994 The next advent is cell
NOTE Confidence: 0.8976196

00:52:32.994 --> 00:52:34.400 therapy. So this is till
NOTE Confidence: 0.8976196

00:52:34.400 --> 00:52:36.420 this is tumor infiltrating leukocyte
NOTE Confidence: 0.8976196

00:52:36.560 --> 00:52:38.100 therapy. It's where we actually
NOTE Confidence: 0.9086914

00:52:38.560 --> 00:52:39.060 harvest,
NOTE Confidence: 0.94588214

00:52:39.680 --> 00:52:41.040 tumor, grow out the t
NOTE Confidence: 0.94588214

00:52:41.040 --> 00:52:41.540 cells,
NOTE Confidence: 0.94886416

00:52:42.000 --> 00:52:44.719 and reinfuse them into patients.
NOTE Confidence: 0.94886416

00:52:44.719 --> 00:52:46.160 It's a one time treatment,
NOTE Confidence: 0.94886416

00:52:46.160 --> 00:52:47.380 but it is quite,
NOTE Confidence: 0.9511719

00:52:47.760 --> 00:52:48.480 an involved,
NOTE Confidence: 0.99902344

00:52:49.475 --> 00:52:49.975 process.
NOTE Confidence: 0.9682373

00:52:50.515 --> 00:52:52.195 So immune therapy back in

NOTE Confidence: 0.9682373
00:52:52.195 --> 00:52:53.575 the day when I was,
NOTE Confidence: 0.9376709
00:52:54.114 --> 00:52:55.555 a medical student, we were
NOTE Confidence: 0.9376709
00:52:55.555 --> 00:52:57.094 giving high dose IL two.
NOTE Confidence: 0.97935265
00:52:57.395 --> 00:52:58.675 That was kind of the
NOTE Confidence: 0.97935265
00:52:58.675 --> 00:52:59.895 standard treatment
NOTE Confidence: 0.9810655
00:53:00.275 --> 00:53:01.815 for metastatic melanoma.
NOTE Confidence: 0.9681571
00:53:02.730 --> 00:53:04.170 As you can see, the
NOTE Confidence: 0.9681571
00:53:04.170 --> 00:53:05.230 overall survival
NOTE Confidence: 0.965323
00:53:05.610 --> 00:53:07.610 probability for these patients, it
NOTE Confidence: 0.965323
00:53:07.610 --> 00:53:09.290 wasn't great. It was also
NOTE Confidence: 0.965323
00:53:09.290 --> 00:53:11.450 really toxic, very difficult for
NOTE Confidence: 0.965323
00:53:11.450 --> 00:53:13.130 patients to get through lots
NOTE Confidence: 0.965323
00:53:13.130 --> 00:53:14.489 lots of issues with blood
NOTE Confidence: 0.965323
00:53:14.489 --> 00:53:15.390 pressure support,
NOTE Confidence: 0.99658203
00:53:16.505 --> 00:53:17.725 edema, etcetera.
NOTE Confidence: 0.9704241

00:53:18.344 --> 00:53:20.265 So since then, kind of
NOTE Confidence: 0.9704241

00:53:20.265 --> 00:53:21.165 the central,
NOTE Confidence: 0.98427737

00:53:22.344 --> 00:53:24.445 study looking at immune therapy
NOTE Confidence: 0.932915

00:53:24.825 --> 00:53:26.665 evaluated a combination of ipi
NOTE Confidence: 0.932915

00:53:26.665 --> 00:53:27.705 and evo. And there's a
NOTE Confidence: 0.932915

00:53:27.705 --> 00:53:29.065 central idea that the more
NOTE Confidence: 0.932915

00:53:29.065 --> 00:53:30.605 different types of immune therapies
NOTE Confidence: 0.932915

00:53:30.745 --> 00:53:31.405 you combine,
NOTE Confidence: 0.9645299

00:53:31.920 --> 00:53:33.680 the higher the response rate.
NOTE Confidence: 0.9645299

00:53:33.680 --> 00:53:34.559 The trade off is the
NOTE Confidence: 0.9645299

00:53:34.559 --> 00:53:36.180 higher the toxicity too.
NOTE Confidence: 0.9769287

00:53:36.480 --> 00:53:37.940 And so for every individual,
NOTE Confidence: 0.9769287

00:53:38.079 --> 00:53:39.619 we make a very personalized
NOTE Confidence: 0.9769287

00:53:39.839 --> 00:53:41.760 judgment call about what their
NOTE Confidence: 0.9769287

00:53:41.760 --> 00:53:43.760 ultimate goals are and tailor
NOTE Confidence: 0.9769287

00:53:43.760 --> 00:53:45.119 the treatment based on how

NOTE Confidence: 0.9769287
00:53:45.119 --> 00:53:46.640 much disease they have, where
NOTE Confidence: 0.9769287
00:53:46.640 --> 00:53:47.380 that diseases
NOTE Confidence: 0.9822639
00:53:48.015 --> 00:53:49.055 have, so that we can
NOTE Confidence: 0.9822639
00:53:49.055 --> 00:53:50.494 hopefully reap the benefits of
NOTE Confidence: 0.9822639
00:53:50.494 --> 00:53:52.494 potential response without too much
NOTE Confidence: 0.9822639
00:53:52.494 --> 00:53:53.395 added toxicity.
NOTE Confidence: 0.91834605
00:53:54.174 --> 00:53:55.535 And so again, this is
NOTE Confidence: 0.91834605
00:53:55.535 --> 00:53:56.734 where the field has moved
NOTE Confidence: 0.91834605
00:53:56.734 --> 00:53:57.234 in,
NOTE Confidence: 0.9735166
00:53:57.535 --> 00:53:59.234 and it's generated a revolution
NOTE Confidence: 0.9735166
00:53:59.375 --> 00:54:01.055 not only in melanoma treatment,
NOTE Confidence: 0.9735166
00:54:01.055 --> 00:54:02.310 but also has trickled down
NOTE Confidence: 0.9735166
00:54:02.310 --> 00:54:03.750 to other cancer types as
NOTE Confidence: 0.9735166
00:54:03.750 --> 00:54:04.250 well.
NOTE Confidence: 0.99609375
00:54:04.630 --> 00:54:05.670 So this is just a
NOTE Confidence: 0.99609375

00:54:05.670 --> 00:54:06.170 simple,
NOTE Confidence: 0.9945243

00:54:06.950 --> 00:54:09.210 table of the various systemic
NOTE Confidence: 0.9945243

00:54:09.350 --> 00:54:10.250 treatment options,
NOTE Confidence: 0.9847005

00:54:10.550 --> 00:54:11.590 you know, on the left
NOTE Confidence: 0.9847005

00:54:11.590 --> 00:54:12.070 there,
NOTE Confidence: 0.9626465

00:54:12.390 --> 00:54:13.370 immune therapy,
NOTE Confidence: 0.9994575

00:54:13.989 --> 00:54:15.350 as well as the response
NOTE Confidence: 0.9994575

00:54:15.350 --> 00:54:16.570 rates and their mechanisms
NOTE Confidence: 0.9678955

00:54:16.870 --> 00:54:17.530 of action,
NOTE Confidence: 0.9244479

00:54:18.285 --> 00:54:20.204 on the right targeted therapy.
NOTE Confidence: 0.9244479

00:54:20.204 --> 00:54:21.405 So these are your BRAF
NOTE Confidence: 0.9244479

00:54:21.405 --> 00:54:22.305 and MEC inhibitors,
NOTE Confidence: 0.95425415

00:54:22.844 --> 00:54:24.125 and you can say, Oh,
NOTE Confidence: 0.95425415

00:54:24.125 --> 00:54:24.944 wait a minute.
NOTE Confidence: 0.990183

00:54:25.244 --> 00:54:27.085 The objective response rate, the
NOTE Confidence: 0.990183

00:54:27.085 --> 00:54:28.684 chances of responding to these

NOTE Confidence: 0.990183
00:54:28.684 --> 00:54:30.605 small molecule inhibitors is actually
NOTE Confidence: 0.990183
00:54:30.605 --> 00:54:32.065 higher than immune therapy.
NOTE Confidence: 0.9726312
00:54:32.670 --> 00:54:34.270 Why are we recommending immune
NOTE Confidence: 0.9726312
00:54:34.270 --> 00:54:36.030 therapy as the upfront treatment
NOTE Confidence: 0.9726312
00:54:36.030 --> 00:54:37.809 for, metastatic melanoma?
NOTE Confidence: 0.993042
00:54:38.430 --> 00:54:40.050 The issue is actually
NOTE Confidence: 0.9746469
00:54:40.430 --> 00:54:41.950 you get a much more
NOTE Confidence: 0.9746469
00:54:41.950 --> 00:54:44.290 durable response, meaning the chances
NOTE Confidence: 0.9746469
00:54:44.430 --> 00:54:45.489 of actual cure
NOTE Confidence: 0.99088544
00:54:45.915 --> 00:54:47.515 are much higher if we
NOTE Confidence: 0.99088544
00:54:47.515 --> 00:54:49.055 go with immune therapy
NOTE Confidence: 0.95665145
00:54:49.515 --> 00:54:50.715 the response rates are high
NOTE Confidence: 0.95665145
00:54:50.715 --> 00:54:52.094 yes there are potential
NOTE Confidence: 0.99934894
00:54:53.035 --> 00:54:54.175 permanent side effects
NOTE Confidence: 0.99780273
00:54:54.875 --> 00:54:55.614 like endocrine
NOTE Confidence: 0.9970703

00:54:55.995 --> 00:54:56.495 issues
NOTE Confidence: 0.9863281
00:54:57.035 --> 00:54:57.535 but
NOTE Confidence: 0.9995117
00:54:57.849 --> 00:54:58.589 the response
NOTE Confidence: 0.9995117
00:54:58.890 --> 00:55:00.109 can be long lasting.
NOTE Confidence: 0.98583984
00:55:00.489 --> 00:55:02.250 We can potentially actually cure
NOTE Confidence: 0.98583984
00:55:02.250 --> 00:55:03.770 people and put them into
NOTE Confidence: 0.98583984
00:55:03.770 --> 00:55:05.369 long term remission with immune
NOTE Confidence: 0.98583984
00:55:05.369 --> 00:55:05.869 therapy
NOTE Confidence: 0.97504884
00:55:06.250 --> 00:55:08.270 as opposed to targeted therapy.
NOTE Confidence: 0.9622454
00:55:08.730 --> 00:55:10.250 So that's why we favor
NOTE Confidence: 0.9622454
00:55:10.250 --> 00:55:11.609 immune therapy upfront, and this
NOTE Confidence: 0.9622454
00:55:11.609 --> 00:55:12.925 has been actually evaluated
NOTE Confidence: 0.93115234
00:55:13.305 --> 00:55:14.685 in a dream seek trial.
NOTE Confidence: 0.95721436
00:55:15.625 --> 00:55:16.985 And then also as a
NOTE Confidence: 0.95721436
00:55:16.985 --> 00:55:18.125 second line option
NOTE Confidence: 0.93657225
00:55:18.744 --> 00:55:20.825 t cell therapy lifolucil as

NOTE Confidence: 0.93657225
00:55:20.825 --> 00:55:21.885 well is available.
NOTE Confidence: 0.83813477
00:55:22.744 --> 00:55:23.244 Lifolucil,
NOTE Confidence: 0.99869794
00:55:24.665 --> 00:55:26.025 made the headlines just because
NOTE Confidence: 0.99869794
00:55:26.025 --> 00:55:27.085 it was the first
NOTE Confidence: 0.94262695
00:55:27.750 --> 00:55:29.210 t cell based therapy
NOTE Confidence: 0.999721
00:55:29.590 --> 00:55:30.710 that was approved for a
NOTE Confidence: 0.999721
00:55:30.710 --> 00:55:31.690 solid tumor
NOTE Confidence: 0.9456923
00:55:32.230 --> 00:55:33.270 and again it's not a
NOTE Confidence: 0.9456923
00:55:33.270 --> 00:55:34.250 walk in the park
NOTE Confidence: 0.9169922
00:55:34.550 --> 00:55:35.910 which is why we don't
NOTE Confidence: 0.9169922
00:55:35.910 --> 00:55:37.670 start with till therapy up
NOTE Confidence: 0.9169922
00:55:37.670 --> 00:55:38.170 front
NOTE Confidence: 0.9143616
00:55:38.550 --> 00:55:39.590 again there's a chance that
NOTE Confidence: 0.9143616
00:55:39.590 --> 00:55:40.950 we could potentially cure people
NOTE Confidence: 0.9143616
00:55:40.950 --> 00:55:42.654 with immune check point inhibitors,
NOTE Confidence: 0.9143616

00:55:42.654 --> 00:55:44.594 those in, systemic immune therapies.
NOTE Confidence: 0.9415039

00:55:44.974 --> 00:55:46.815 So we really reserve till
NOTE Confidence: 0.9415039

00:55:46.815 --> 00:55:48.414 therapy for those people who
NOTE Confidence: 0.9415039

00:55:48.414 --> 00:55:50.275 are refractory to prior treatments.
NOTE Confidence: 0.98295087

00:55:50.895 --> 00:55:52.575 So till therapy is quite
NOTE Confidence: 0.98295087

00:55:52.575 --> 00:55:53.075 involved.
NOTE Confidence: 0.9972331

00:55:54.570 --> 00:55:56.250 Patients have to undergo rigorous
NOTE Confidence: 0.9972331

00:55:56.250 --> 00:55:56.750 evaluation
NOTE Confidence: 0.994043

00:55:57.130 --> 00:55:59.710 for cardiac function, pulmonary function.
NOTE Confidence: 0.9998047

00:56:00.250 --> 00:56:01.710 They have to have relatively
NOTE Confidence: 0.9975586

00:56:02.090 --> 00:56:03.690 slow growing tumor. They're not
NOTE Confidence: 0.9975586

00:56:03.690 --> 00:56:05.230 gonna blossom out of control
NOTE Confidence: 0.9987305

00:56:05.690 --> 00:56:07.664 within the next, two months
NOTE Confidence: 0.93688476

00:56:08.045 --> 00:56:09.325 because one, you have to
NOTE Confidence: 0.93688476

00:56:09.325 --> 00:56:10.765 get them to surgery. Doctor
NOTE Confidence: 0.93688476

00:56:10.765 --> 00:56:12.525 Alino has to remove those

NOTE Confidence: 0.93688476
00:56:12.525 --> 00:56:13.805 those tumors. We have to
NOTE Confidence: 0.93688476
00:56:13.805 --> 00:56:14.944 send it to the company.
NOTE Confidence: 0.9905229
00:56:15.244 --> 00:56:16.864 The company has to dissect
NOTE Confidence: 0.9905229
00:56:16.924 --> 00:56:18.605 the tumor out, make a
NOTE Confidence: 0.9905229
00:56:18.605 --> 00:56:20.684 single cell suspension, grow those
NOTE Confidence: 0.9905229
00:56:20.684 --> 00:56:22.350 t cells out, hit them
NOTE Confidence: 0.9905229
00:56:22.350 --> 00:56:23.010 with cytokines,
NOTE Confidence: 0.9983724
00:56:23.550 --> 00:56:25.390 basically make billions of copies
NOTE Confidence: 0.9983724
00:56:25.390 --> 00:56:26.530 of those T cells.
NOTE Confidence: 0.9954468
00:56:26.910 --> 00:56:28.190 Once those cells are ready,
NOTE Confidence: 0.9954468
00:56:28.190 --> 00:56:28.910 we have to get the
NOTE Confidence: 0.9954468
00:56:28.910 --> 00:56:30.350 patient back in, give them
NOTE Confidence: 0.9954468
00:56:30.350 --> 00:56:32.290 some low doses of chemotherapy
NOTE Confidence: 0.9444987
00:56:32.910 --> 00:56:34.155 to basically suppress
NOTE Confidence: 0.8983968
00:56:37.515 --> 00:56:38.395 t cells to come back
NOTE Confidence: 0.8983968

00:56:38.395 --> 00:56:38.895 in.
NOTE Confidence: 0.9630263
00:56:39.515 --> 00:56:40.715 Those t cells then get
NOTE Confidence: 0.9630263
00:56:40.715 --> 00:56:41.215 reinfused
NOTE Confidence: 0.9394043
00:56:41.515 --> 00:56:42.635 while the patient's in the
NOTE Confidence: 0.9394043
00:56:42.635 --> 00:56:44.415 hospital, and then they subsequently
NOTE Confidence: 0.8753967
00:56:44.715 --> 00:56:46.235 get low doses of IL
NOTE Confidence: 0.8753967
00:56:46.235 --> 00:56:47.215 two to help
NOTE Confidence: 0.95339626
00:56:48.020 --> 00:56:49.700 cells to survive now that
NOTE Confidence: 0.95339626
00:56:49.700 --> 00:56:50.840 they're back in you.
NOTE Confidence: 0.9621138
00:56:51.219 --> 00:56:52.500 So it's a quite a
NOTE Confidence: 0.9621138
00:56:52.500 --> 00:56:55.219 process. Patients have issues with
NOTE Confidence: 0.9621138
00:56:55.219 --> 00:56:57.140 low blood cell counts for
NOTE Confidence: 0.9621138
00:56:57.140 --> 00:56:59.000 the first month. They oftentimes
NOTE Confidence: 0.9621138
00:56:59.140 --> 00:56:59.880 need transfusion
NOTE Confidence: 0.9885254
00:57:00.180 --> 00:57:00.680 support.
NOTE Confidence: 0.9664714
00:57:01.464 --> 00:57:03.625 It is a very expensive

NOTE Confidence: 0.9664714
00:57:03.625 --> 00:57:04.125 treatment.
NOTE Confidence: 0.9552409
00:57:04.905 --> 00:57:06.665 It's a very costly in
NOTE Confidence: 0.9552409
00:57:06.665 --> 00:57:08.344 terms of time treatment, time
NOTE Confidence: 0.9552409
00:57:08.344 --> 00:57:09.565 commitment too.
NOTE Confidence: 0.9515492
00:57:10.105 --> 00:57:11.625 And so after that, then
NOTE Confidence: 0.9515492
00:57:11.625 --> 00:57:13.464 the patient gets discharged. They
NOTE Confidence: 0.9515492
00:57:13.464 --> 00:57:13.964 recover.
NOTE Confidence: 0.9857585
00:57:14.280 --> 00:57:15.160 And then it's kind of
NOTE Confidence: 0.9857585
00:57:15.160 --> 00:57:16.360 a waiting game to see
NOTE Confidence: 0.9857585
00:57:16.360 --> 00:57:17.900 if those T cells respond.
NOTE Confidence: 0.8769531
00:57:19.400 --> 00:57:21.740 Now immune checkpoint inhibitors. Whenever
NOTE Confidence: 0.8769531
00:57:21.800 --> 00:57:23.960 we counsel patients on, on
NOTE Confidence: 0.8769531
00:57:23.960 --> 00:57:25.900 potentially considering this treatment,
NOTE Confidence: 0.9948918
00:57:26.375 --> 00:57:27.575 again, it's not without side
NOTE Confidence: 0.9948918
00:57:27.575 --> 00:57:28.535 effects. So there are a
NOTE Confidence: 0.9948918

00:57:28.535 --> 00:57:29.434 lot of autoimmune
NOTE Confidence: 0.9980876

00:57:29.815 --> 00:57:31.835 related side effects that could
NOTE Confidence: 0.9980876

00:57:31.895 --> 00:57:32.395 incur,
NOTE Confidence: 0.9703451

00:57:33.095 --> 00:57:34.615 as as a result of
NOTE Confidence: 0.9703451

00:57:34.615 --> 00:57:36.795 immune checkpoint inhibitors. And, basically,
NOTE Confidence: 0.9703451

00:57:37.015 --> 00:57:38.875 it's bottom line is inflammation.
NOTE Confidence: 0.9612732

00:57:39.335 --> 00:57:40.900 It can happen anywhere. It
NOTE Confidence: 0.9612732

00:57:40.900 --> 00:57:41.880 can happen anytime
NOTE Confidence: 0.9893799

00:57:42.740 --> 00:57:44.119 so where that occurs
NOTE Confidence: 0.99487305

00:57:44.500 --> 00:57:45.540 kind of translates to the
NOTE Confidence: 0.99487305

00:57:45.540 --> 00:57:47.060 side effects so most common
NOTE Confidence: 0.99487305

00:57:47.060 --> 00:57:48.680 things are fatigue rash
NOTE Confidence: 0.9970703

00:57:49.700 --> 00:57:51.000 depending on the regimen
NOTE Confidence: 0.9946289

00:57:51.300 --> 00:57:52.360 sometimes diarrhea
NOTE Confidence: 0.99609375

00:57:52.900 --> 00:57:53.880 joint arthritis
NOTE Confidence: 0.98876953

00:57:55.055 --> 00:57:56.595 it can result in some,

NOTE Confidence: 0.93359375

00:57:57.214 --> 00:57:59.454 permanent side effects like type

NOTE Confidence: 0.93359375

00:57:59.454 --> 00:58:00.275 one diabetes,

NOTE Confidence: 0.999442

00:58:01.134 --> 00:58:02.894 permanent loss of your thyroid

NOTE Confidence: 0.999442

00:58:02.894 --> 00:58:04.035 function, pituitary

NOTE Confidence: 0.9530029

00:58:04.335 --> 00:58:05.214 adrenal function.

NOTE Confidence: 0.8876256

00:58:06.800 --> 00:58:08.480 Some things are we can

NOTE Confidence: 0.8876256

00:58:08.480 --> 00:58:09.280 replace with,

NOTE Confidence: 0.7989502

00:58:10.080 --> 00:58:12.099 medications like thyroid medications,

NOTE Confidence: 0.9932251

00:58:12.560 --> 00:58:13.940 low doses of steroids.

NOTE Confidence: 0.98051757

00:58:14.480 --> 00:58:15.940 Some a lot of these,

NOTE Confidence: 0.94970703

00:58:16.480 --> 00:58:17.220 side effects,

NOTE Confidence: 0.96298057

00:58:18.000 --> 00:58:19.840 are treatable, though. There are

NOTE Confidence: 0.96298057

00:58:19.840 --> 00:58:21.359 some very high risk side

NOTE Confidence: 0.96298057

00:58:21.359 --> 00:58:22.785 effects that we oftentimes have

NOTE Confidence: 0.96298057

00:58:22.785 --> 00:58:24.244 to counsel patients about

NOTE Confidence: 0.9723036

00:58:24.545 --> 00:58:25.505 because it can lead to
NOTE Confidence: 0.9723036

00:58:25.505 --> 00:58:27.285 lung inflammation, heart inflammation,
NOTE Confidence: 0.92021483

00:58:27.905 --> 00:58:29.585 inflammation of the nerves called
NOTE Confidence: 0.92021483

00:58:29.585 --> 00:58:30.085 myasthenia,
NOTE Confidence: 0.9155002

00:58:30.545 --> 00:58:31.765 gravis. And so,
NOTE Confidence: 0.9840088

00:58:32.625 --> 00:58:34.625 it is not without its
NOTE Confidence: 0.9840088

00:58:34.625 --> 00:58:35.125 risks.
NOTE Confidence: 0.82592773

00:58:35.940 --> 00:58:36.440 Now,
NOTE Confidence: 0.9698441

00:58:36.740 --> 00:58:37.540 you know, back in the
NOTE Confidence: 0.9698441

00:58:37.540 --> 00:58:38.740 day when these drugs were
NOTE Confidence: 0.9698441

00:58:38.740 --> 00:58:40.420 under clinical trial development, we
NOTE Confidence: 0.9698441

00:58:40.420 --> 00:58:41.619 were afraid to give it
NOTE Confidence: 0.9698441

00:58:41.619 --> 00:58:43.240 to people who had existing
NOTE Confidence: 0.9698441

00:58:43.380 --> 00:58:44.520 autoimmune issues.
NOTE Confidence: 0.9914551

00:58:45.060 --> 00:58:46.760 Thankfully, what we've discovered
NOTE Confidence: 0.9828288

00:58:47.140 --> 00:58:48.260 through the course of having

NOTE Confidence: 0.9828288

00:58:48.260 --> 00:58:49.619 these drugs available and trying

NOTE Confidence: 0.9828288

00:58:49.619 --> 00:58:51.215 to push the field to

NOTE Confidence: 0.9828288

00:58:51.215 --> 00:58:53.295 make them available for for

NOTE Confidence: 0.9828288

00:58:53.295 --> 00:58:54.815 more people is that a

NOTE Confidence: 0.9828288

00:58:54.815 --> 00:58:56.115 lot of these side effects,

NOTE Confidence: 0.9996745

00:58:56.495 --> 00:58:57.395 they don't necessarily

NOTE Confidence: 0.99672157

00:58:57.775 --> 00:58:59.375 flare in people who have

NOTE Confidence: 0.99672157

00:58:59.375 --> 00:59:00.275 autoimmune disease.

NOTE Confidence: 0.96743166

00:59:00.735 --> 00:59:02.835 Some things like PMR will,

NOTE Confidence: 0.98466355

00:59:03.470 --> 00:59:04.930 but other things like lupus,

NOTE Confidence: 0.98466355

00:59:04.990 --> 00:59:06.510 we can actually give these

NOTE Confidence: 0.98466355

00:59:06.510 --> 00:59:07.010 patients,

NOTE Confidence: 0.96875

00:59:07.789 --> 00:59:09.710 with existing lupus, these immune

NOTE Confidence: 0.96875

00:59:09.710 --> 00:59:10.690 checkpoint inhibitors.

NOTE Confidence: 0.976359

00:59:11.390 --> 00:59:12.990 And oftentimes, we can we

NOTE Confidence: 0.976359

00:59:12.990 --> 00:59:14.190 can get by, and they
NOTE Confidence: 0.976359

00:59:14.190 --> 00:59:15.809 have a fantastic response.
NOTE Confidence: 0.96286446

00:59:16.275 --> 00:59:18.035 And so again it's not
NOTE Confidence: 0.96286446

00:59:18.035 --> 00:59:19.795 an absolute no that if
NOTE Confidence: 0.96286446

00:59:19.795 --> 00:59:21.655 you have an autoimmune disease
NOTE Confidence: 0.96286446

00:59:21.954 --> 00:59:23.635 that these therapies will not
NOTE Confidence: 0.96286446

00:59:23.635 --> 00:59:24.755 work for you or not
NOTE Confidence: 0.96286446

00:59:24.755 --> 00:59:25.734 safe for you.
NOTE Confidence: 0.9371948

00:59:26.355 --> 00:59:27.474 And so again this is
NOTE Confidence: 0.9371948

00:59:27.474 --> 00:59:28.535 where a clinical
NOTE Confidence: 0.98291016

00:59:28.914 --> 00:59:29.414 judgment
NOTE Confidence: 0.99189454

00:59:30.090 --> 00:59:31.130 kind of weighing the risk
NOTE Confidence: 0.99189454

00:59:31.130 --> 00:59:32.750 and benefits come into hand.
NOTE Confidence: 0.99686927

00:59:33.290 --> 00:59:34.490 So kind of just the
NOTE Confidence: 0.99686927

00:59:34.490 --> 00:59:35.450 lay of the land in
NOTE Confidence: 0.99686927

00:59:35.450 --> 00:59:36.730 terms of how we think

NOTE Confidence: 0.99686927
00:59:36.730 --> 00:59:38.030 about metastatic,
NOTE Confidence: 0.9919305
00:59:38.730 --> 00:59:40.890 melanoma treatment. So kind of
NOTE Confidence: 0.9919305
00:59:40.890 --> 00:59:42.010 up top on the far
NOTE Confidence: 0.9919305
00:59:42.010 --> 00:59:43.290 right here, you know, I
NOTE Confidence: 0.9919305
00:59:43.290 --> 00:59:45.005 kinda listed the drugs,
NOTE Confidence: 0.973999
00:59:45.325 --> 00:59:46.545 in terms of efficacy.
NOTE Confidence: 0.9836154
00:59:47.245 --> 00:59:49.005 Again, the more efficacious, the
NOTE Confidence: 0.9836154
00:59:49.005 --> 00:59:49.505 potentially
NOTE Confidence: 0.9149509
00:59:49.805 --> 00:59:51.085 the higher the side effects.
NOTE Confidence: 0.9149509
00:59:51.085 --> 00:59:52.385 So we have ipinivo,
NOTE Confidence: 0.996739
00:59:52.845 --> 00:59:53.885 that's kind of our tried
NOTE Confidence: 0.996739
00:59:53.885 --> 00:59:55.165 and true regimen. If you
NOTE Confidence: 0.996739
00:59:55.165 --> 00:59:56.545 have lots of disease,
NOTE Confidence: 0.95978653
00:59:57.005 --> 00:59:58.525 critical sites of disease, like
NOTE Confidence: 0.95978653
00:59:58.525 --> 00:59:59.345 brain metastases,
NOTE Confidence: 0.94488525

01:00:00.260 --> 01:00:01.380 That's one that we will
NOTE Confidence: 0.94488525

01:00:01.380 --> 01:00:02.839 oftentimes try upfront
NOTE Confidence: 0.9446777

01:00:03.460 --> 01:00:04.900 if we can think you
NOTE Confidence: 0.9446777

01:00:04.900 --> 01:00:06.440 can tolerate the side effects.
NOTE Confidence: 0.97255164

01:00:06.740 --> 01:00:08.280 Because, again, we don't wanna
NOTE Confidence: 0.97255164

01:00:08.420 --> 01:00:09.319 harm people,
NOTE Confidence: 0.9981356

01:00:10.099 --> 01:00:11.220 have a detriment to their
NOTE Confidence: 0.9981356

01:00:11.220 --> 01:00:12.339 quality of life with these
NOTE Confidence: 0.9981356

01:00:12.339 --> 01:00:12.839 treatments.
NOTE Confidence: 0.88024324

01:00:13.355 --> 01:00:14.414 Next is Zopdulilag.
NOTE Confidence: 0.96709275

01:00:14.714 --> 01:00:15.914 So people who have low
NOTE Confidence: 0.96709275

01:00:15.914 --> 01:00:18.315 volume disease will oftentimes try
NOTE Confidence: 0.96709275

01:00:18.315 --> 01:00:20.075 this first. And again, if
NOTE Confidence: 0.96709275

01:00:20.075 --> 01:00:21.115 there are side effects, we
NOTE Confidence: 0.96709275

01:00:21.115 --> 01:00:22.015 can deescalate
NOTE Confidence: 0.90871173

01:00:22.714 --> 01:00:24.954 to single agent Nivo or

NOTE Confidence: 0.90871173
01:00:24.954 --> 01:00:25.454 pembro.
NOTE Confidence: 0.99360454
01:00:25.860 --> 01:00:26.740 And if they don't have
NOTE Confidence: 0.99360454
01:00:26.740 --> 01:00:27.940 the response that we like,
NOTE Confidence: 0.99360454
01:00:27.940 --> 01:00:29.700 we can always escalate to
NOTE Confidence: 0.99360454
01:00:29.700 --> 01:00:30.840 ipinivo too.
NOTE Confidence: 0.9395345
01:00:31.460 --> 01:00:32.920 There's targeted therapies.
NOTE Confidence: 0.9370117
01:00:33.300 --> 01:00:34.660 And, again, there those come
NOTE Confidence: 0.9370117
01:00:34.660 --> 01:00:35.960 also in different flavors,
NOTE Confidence: 0.9970703
01:00:36.580 --> 01:00:37.960 and then cell therapy.
NOTE Confidence: 0.95336914
01:00:39.675 --> 01:00:40.815 So just a few,
NOTE Confidence: 0.9465332
01:00:41.355 --> 01:00:43.915 comments about some specific locations.
NOTE Confidence: 0.9465332
01:00:43.915 --> 01:00:45.135 So brain metastases.
NOTE Confidence: 0.98154294
01:00:45.675 --> 01:00:47.435 Doctor Kluger, you know, has
NOTE Confidence: 0.98154294
01:00:47.435 --> 01:00:48.635 a lot of clinical trials,
NOTE Confidence: 0.98154294
01:00:48.635 --> 01:00:50.075 a lot of investigation, and
NOTE Confidence: 0.98154294

01:00:50.075 --> 01:00:52.015 how do we improve responses
NOTE Confidence: 0.98154294

01:00:52.235 --> 01:00:54.015 for individuals with brain metastases.
NOTE Confidence: 0.96554905

01:00:54.600 --> 01:00:55.500 You know, melanoma,
NOTE Confidence: 0.9965007

01:00:56.360 --> 01:00:57.500 for whatever reason,
NOTE Confidence: 0.9418132

01:00:57.960 --> 01:00:59.340 probably from the neuroactogen
NOTE Confidence: 0.8712158

01:00:59.960 --> 01:01:01.580 merle origin of these cells,
NOTE Confidence: 0.9994507

01:01:01.960 --> 01:01:03.640 has a tendency to go
NOTE Confidence: 0.9994507

01:01:03.640 --> 01:01:04.380 to the brain.
NOTE Confidence: 0.9786827

01:01:05.560 --> 01:01:07.240 These lesions are not benign,
NOTE Confidence: 0.9786827

01:01:07.240 --> 01:01:08.840 obviously. They can bleed. They
NOTE Confidence: 0.9786827

01:01:08.840 --> 01:01:10.515 can cause seizures, they can
NOTE Confidence: 0.9786827

01:01:10.515 --> 01:01:12.375 cause edema, brain swelling,
NOTE Confidence: 0.98307294

01:01:13.395 --> 01:01:13.895 neurologic,
NOTE Confidence: 0.9810384

01:01:14.515 --> 01:01:15.575 loss of function.
NOTE Confidence: 0.99487305

01:01:16.115 --> 01:01:17.714 And so we actually do
NOTE Confidence: 0.99487305

01:01:17.714 --> 01:01:19.395 have better treatments now, more

NOTE Confidence: 0.99487305
01:01:19.395 --> 01:01:21.635 effective therapies that actually penetrate
NOTE Confidence: 0.99487305
01:01:21.635 --> 01:01:23.220 into the brain. We have
NOTE Confidence: 0.99487305
01:01:23.220 --> 01:01:24.900 radiation therapy that we can
NOTE Confidence: 0.99487305
01:01:24.900 --> 01:01:25.400 combine
NOTE Confidence: 0.86273193
01:01:25.700 --> 01:01:27.080 with these systemic therapies,
NOTE Confidence: 0.9641927
01:01:28.500 --> 01:01:30.500 but we still need ongoing
NOTE Confidence: 0.9641927
01:01:30.500 --> 01:01:32.200 research in radiation necrosis.
NOTE Confidence: 0.9706624
01:01:33.060 --> 01:01:34.500 That's where there's a lot
NOTE Confidence: 0.9706624
01:01:34.500 --> 01:01:35.000 of,
NOTE Confidence: 0.98672765
01:01:35.380 --> 01:01:37.300 cyclical inflammation in the brain
NOTE Confidence: 0.98672765
01:01:37.300 --> 01:01:38.415 that can lead to swelling
NOTE Confidence: 0.98672765
01:01:38.415 --> 01:01:38.915 too.
NOTE Confidence: 0.96435547
01:01:40.175 --> 01:01:41.075 You know, oftentimes,
NOTE Confidence: 0.9573364
01:01:41.455 --> 01:01:43.235 individuals ask me, okay.
NOTE Confidence: 0.9930245
01:01:43.615 --> 01:01:44.415 How do I know the
NOTE Confidence: 0.9930245

01:01:44.415 --> 01:01:45.475 treatment's working?
NOTE Confidence: 0.96307373

01:01:45.935 --> 01:01:47.155 We have to wait,
NOTE Confidence: 0.9519761

01:01:47.935 --> 01:01:49.535 you know, usually at least
NOTE Confidence: 0.9519761

01:01:49.535 --> 01:01:50.815 six weeks, if not three
NOTE Confidence: 0.9519761

01:01:50.815 --> 01:01:52.095 months, in order to figure
NOTE Confidence: 0.9519761

01:01:52.095 --> 01:01:52.835 this out.
NOTE Confidence: 0.99001735

01:01:53.170 --> 01:01:54.210 Because the issue is if
NOTE Confidence: 0.99001735

01:01:54.210 --> 01:01:55.670 we scan too soon,
NOTE Confidence: 0.9135742

01:01:55.970 --> 01:01:57.650 there is a phenomenon called
NOTE Confidence: 0.9135742

01:01:57.650 --> 01:01:58.550 pseudo progression.
NOTE Confidence: 0.9742839

01:01:58.850 --> 01:02:00.630 Those immune cells are activated
NOTE Confidence: 0.9742839

01:02:00.690 --> 01:02:02.070 from these systemic therapies.
NOTE Confidence: 0.99645996

01:02:02.370 --> 01:02:03.730 They can infiltrate into the
NOTE Confidence: 0.99645996

01:02:03.730 --> 01:02:04.230 tumor,
NOTE Confidence: 0.9753377

01:02:04.530 --> 01:02:05.625 cause a little bit of
NOTE Confidence: 0.9753377

01:02:05.785 --> 01:02:06.985 swelling, if you will, in

NOTE Confidence: 0.9753377

01:02:06.985 --> 01:02:08.505 that tumor whereby that tumor

NOTE Confidence: 0.9753377

01:02:08.505 --> 01:02:10.045 looks bigger on the scans,

NOTE Confidence: 0.9753377

01:02:10.265 --> 01:02:11.705 but it's actually because those

NOTE Confidence: 0.9753377

01:02:11.705 --> 01:02:12.825 immune cells are trying to

NOTE Confidence: 0.9753377

01:02:12.825 --> 01:02:13.945 get in there to do

NOTE Confidence: 0.9753377

01:02:13.945 --> 01:02:15.065 their job. And if you

NOTE Confidence: 0.9753377

01:02:15.065 --> 01:02:16.265 just wait a little bit

NOTE Confidence: 0.9753377

01:02:16.265 --> 01:02:18.045 longer, have a little patience,

NOTE Confidence: 0.9753377

01:02:18.105 --> 01:02:19.705 hopefully a little faith, and

NOTE Confidence: 0.9753377

01:02:19.705 --> 01:02:20.765 a few more prayers,

NOTE Confidence: 1

01:02:21.470 --> 01:02:21.970 then

NOTE Confidence: 0.94960755

01:02:22.430 --> 01:02:23.950 subsequently we see tumor shrinkage.

NOTE Confidence: 0.94960755

01:02:23.950 --> 01:02:25.730 And so that's why, unfortunately,

NOTE Confidence: 0.94960755

01:02:25.950 --> 01:02:27.470 we can't scan too soon.

NOTE Confidence: 0.94960755

01:02:27.470 --> 01:02:28.369 We have to,

NOTE Confidence: 0.97048223

01:02:28.670 --> 01:02:29.710 put our faith in these
NOTE Confidence: 0.97048223

01:02:29.710 --> 01:02:31.789 medications sometimes early on. And
NOTE Confidence: 0.97048223

01:02:31.789 --> 01:02:33.470 particularly if you're doing well,
NOTE Confidence: 0.97048223

01:02:33.789 --> 01:02:35.309 and symptoms are not any
NOTE Confidence: 0.97048223

01:02:35.309 --> 01:02:35.809 worse,
NOTE Confidence: 0.9523704

01:02:36.315 --> 01:02:37.675 oftentimes that's a sign of
NOTE Confidence: 0.9523704

01:02:37.675 --> 01:02:39.755 pseudo progression rather than true
NOTE Confidence: 0.9523704

01:02:39.755 --> 01:02:40.255 progression.
NOTE Confidence: 0.9570963

01:02:42.315 --> 01:02:45.055 Alright. So adjuvant treatment paradigms.
NOTE Confidence: 0.9890625

01:02:46.234 --> 01:02:48.075 So we talked about moving
NOTE Confidence: 0.9890625

01:02:48.075 --> 01:02:49.295 a lot of these effective,
NOTE Confidence: 0.99902344

01:02:50.075 --> 01:02:50.575 medications
NOTE Confidence: 0.9958984

01:02:50.875 --> 01:02:52.230 in the stage four setting
NOTE Confidence: 0.9958984

01:02:52.230 --> 01:02:53.270 early on to see if
NOTE Confidence: 0.9958984

01:02:53.270 --> 01:02:55.050 we can reduce recurrence risk.
NOTE Confidence: 0.95975506

01:02:55.510 --> 01:02:57.770 And so in stage three,

NOTE Confidence: 0.95975506
01:02:57.830 --> 01:02:59.190 you know, anti PD one
NOTE Confidence: 0.95975506
01:02:59.190 --> 01:03:00.470 drugs, so these are things
NOTE Confidence: 0.95975506
01:03:00.470 --> 01:03:01.210 like nivolumab,
NOTE Confidence: 0.922433
01:03:02.070 --> 01:03:02.570 pembrolizumab,
NOTE Confidence: 0.9769775
01:03:03.430 --> 01:03:05.450 they do recur reduce recurrence
NOTE Confidence: 0.9769775
01:03:05.510 --> 01:03:07.370 risk by about fifty percent.
NOTE Confidence: 0.99990237
01:03:07.925 --> 01:03:09.785 However, they don't really improve
NOTE Confidence: 0.9748535
01:03:10.085 --> 01:03:10.585 survival.
NOTE Confidence: 0.9888471
01:03:10.885 --> 01:03:12.484 So what's our endgame? What's
NOTE Confidence: 0.9888471
01:03:12.484 --> 01:03:13.845 our target here? We need
NOTE Confidence: 0.9888471
01:03:13.845 --> 01:03:15.445 patients to live longer. We
NOTE Confidence: 0.9888471
01:03:15.445 --> 01:03:16.565 need them to do well
NOTE Confidence: 0.9888471
01:03:16.565 --> 01:03:17.065 longer.
NOTE Confidence: 0.91575116
01:03:17.685 --> 01:03:19.605 And so sometimes for for
NOTE Confidence: 0.91575116
01:03:19.605 --> 01:03:21.125 individuals, again, and this is
NOTE Confidence: 0.91575116

01:03:21.125 --> 01:03:21.865 where personal
NOTE Confidence: 0.96122605

01:03:22.270 --> 01:03:23.710 decision kind of priorities come
NOTE Confidence: 0.96122605

01:03:23.710 --> 01:03:25.550 into play. Maybe those side
NOTE Confidence: 0.96122605

01:03:25.550 --> 01:03:26.050 effects
NOTE Confidence: 0.9533128

01:03:26.430 --> 01:03:27.950 don't bode well if you're
NOTE Confidence: 0.9533128

01:03:27.950 --> 01:03:29.630 already kinda struggling and have
NOTE Confidence: 0.9533128

01:03:29.630 --> 01:03:30.690 other health issues.
NOTE Confidence: 0.9926409

01:03:31.230 --> 01:03:32.750 And so in those particular
NOTE Confidence: 0.9926409

01:03:32.750 --> 01:03:33.790 settings, if you do not
NOTE Confidence: 0.9926409

01:03:33.790 --> 01:03:35.010 have a BRAF mutation,
NOTE Confidence: 0.9437663

01:03:35.470 --> 01:03:36.830 sometimes a watch and wait
NOTE Confidence: 0.9437663

01:03:36.830 --> 01:03:37.330 approach,
NOTE Confidence: 0.92529297

01:03:38.055 --> 01:03:39.994 is actually makes more sense.
NOTE Confidence: 0.99316406

01:03:40.535 --> 01:03:41.415 If you do have a
NOTE Confidence: 0.99316406

01:03:41.415 --> 01:03:42.315 BRAF mutation,
NOTE Confidence: 0.9878585

01:03:42.855 --> 01:03:44.855 they these medications for stage

NOTE Confidence: 0.9878585
01:03:44.855 --> 01:03:46.795 three patients actually reduce recurrence
NOTE Confidence: 0.9878585
01:03:46.855 --> 01:03:48.214 risk by half, but they
NOTE Confidence: 0.9878585
01:03:48.214 --> 01:03:49.815 have also are starting to
NOTE Confidence: 0.9878585
01:03:49.815 --> 01:03:52.155 show improvements in survival too.
NOTE Confidence: 0.9878585
01:03:52.440 --> 01:03:53.960 So that's where waiting for
NOTE Confidence: 0.9878585
01:03:53.960 --> 01:03:55.800 that tumor mutational status to
NOTE Confidence: 0.9878585
01:03:55.800 --> 01:03:57.320 come back from the tumor
NOTE Confidence: 0.9878585
01:03:57.320 --> 01:03:57.820 resection
NOTE Confidence: 0.97680664
01:03:58.359 --> 01:04:00.359 actually does really impact how
NOTE Confidence: 0.97680664
01:04:00.359 --> 01:04:02.140 we think about treating individuals
NOTE Confidence: 0.97680664
01:04:02.280 --> 01:04:04.380 too. For stage two patients,
NOTE Confidence: 0.96156144
01:04:04.775 --> 01:04:06.215 anti PD one has been
NOTE Confidence: 0.96156144
01:04:06.215 --> 01:04:08.315 FDA approved, so nivolumab,
NOTE Confidence: 0.9907924
01:04:09.015 --> 01:04:09.515 pembrolizumab.
NOTE Confidence: 1
01:04:10.375 --> 01:04:10.875 However,
NOTE Confidence: 0.9315918

01:04:11.175 --> 01:04:13.095 the response, the benefit is
NOTE Confidence: 0.9315918

01:04:13.095 --> 01:04:13.975 a little bit less than
NOTE Confidence: 0.9315918

01:04:13.975 --> 01:04:15.255 stage three patients, and, again,
NOTE Confidence: 0.9315918

01:04:15.255 --> 01:04:17.595 there's no overall survival benefit.
NOTE Confidence: 0.90276694

01:04:20.060 --> 01:04:21.600 Alright. So neoadjuvant,
NOTE Confidence: 0.9412109

01:04:22.060 --> 01:04:23.420 I think doctor Alino has
NOTE Confidence: 0.9412109

01:04:23.420 --> 01:04:24.940 covered that very well, so
NOTE Confidence: 0.9412109

01:04:24.940 --> 01:04:26.640 we'll kinda skip over this.
NOTE Confidence: 0.9501837

01:04:28.060 --> 01:04:29.820 But really kind of, just
NOTE Confidence: 0.9501837

01:04:29.980 --> 01:04:31.180 and, again, just to kinda
NOTE Confidence: 0.9501837

01:04:31.340 --> 01:04:32.300 we we like to go
NOTE Confidence: 0.9501837

01:04:32.300 --> 01:04:34.375 over a case case reports.
NOTE Confidence: 0.9501837

01:04:34.515 --> 01:04:35.015 Okay?
NOTE Confidence: 0.982137

01:04:35.635 --> 01:04:36.994 We're we're gonna pretend you
NOTE Confidence: 0.982137

01:04:36.994 --> 01:04:39.095 guys are all medical trainees
NOTE Confidence: 0.982137

01:04:39.155 --> 01:04:40.435 now that you've been you've

NOTE Confidence: 0.982137
01:04:40.435 --> 01:04:41.494 lived the experience.
NOTE Confidence: 0.9817592
01:04:42.595 --> 01:04:44.355 So for example, let's think
NOTE Confidence: 0.9817592
01:04:44.355 --> 01:04:45.474 about, you know, a patient
NOTE Confidence: 0.9817592
01:04:45.474 --> 01:04:46.950 who had a right,
NOTE Confidence: 0.9753418
01:04:47.430 --> 01:04:48.570 abdomen melanoma.
NOTE Confidence: 0.9833171
01:04:49.270 --> 01:04:50.410 Stage three b,
NOTE Confidence: 0.94628906
01:04:51.270 --> 01:04:52.070 it was ulcer
NOTE Confidence: 0.8442383
01:04:52.550 --> 01:04:53.050 nonulcerated,
NOTE Confidence: 0.9802246
01:04:53.910 --> 01:04:54.970 but it had microsatellite.
NOTE Confidence: 0.97772217
01:04:55.270 --> 01:04:56.250 So there are little,
NOTE Confidence: 1
01:04:56.790 --> 01:04:57.930 areas of tumor
NOTE Confidence: 0.9977539
01:04:58.470 --> 01:05:00.329 adjacent to the primary site.
NOTE Confidence: 0.8517253
01:05:01.704 --> 01:05:02.204 BRAF,
NOTE Confidence: 0.98537374
01:05:02.744 --> 01:05:05.224 mutation status was positive, meaning
NOTE Confidence: 0.98537374
01:05:05.224 --> 01:05:06.424 the patient had a BRAF
NOTE Confidence: 0.98537374

01:05:06.424 --> 01:05:06.924 mutation.
NOTE Confidence: 0.92183876

01:05:08.025 --> 01:05:09.885 There was a clinically palpable
NOTE Confidence: 0.92183876

01:05:09.944 --> 01:05:10.984 lymph node, and so the
NOTE Confidence: 0.92183876

01:05:10.984 --> 01:05:12.825 decision was, as one of
NOTE Confidence: 0.92183876

01:05:12.825 --> 01:05:14.365 doctor Alina's paradigms,
NOTE Confidence: 0.95773315

01:05:14.720 --> 01:05:16.079 to treat with anti PD
NOTE Confidence: 0.95773315

01:05:16.079 --> 01:05:17.380 one therapy upfront.
NOTE Confidence: 0.9036865

01:05:18.480 --> 01:05:19.920 We gave two doses and
NOTE Confidence: 0.9036865

01:05:19.920 --> 01:05:21.859 actually the patient developed myocarditis,
NOTE Confidence: 0.999783

01:05:22.240 --> 01:05:23.200 which is one of the
NOTE Confidence: 0.999783

01:05:23.200 --> 01:05:24.900 most concerning side effects.
NOTE Confidence: 0.9586961

01:05:25.279 --> 01:05:26.319 And again, this kind of
NOTE Confidence: 0.9586961

01:05:26.319 --> 01:05:28.099 highlights that sometimes high risk
NOTE Confidence: 0.9586961

01:05:28.365 --> 01:05:29.965 sometimes comes with high reward
NOTE Confidence: 0.9586961

01:05:29.965 --> 01:05:31.805 too because what happened is
NOTE Confidence: 0.9586961

01:05:31.805 --> 01:05:33.585 that the tumor shrank.

NOTE Confidence: 0.99561656
01:05:34.525 --> 01:05:36.205 We did take a while
NOTE Confidence: 0.99561656
01:05:36.205 --> 01:05:37.725 for us to treat the
NOTE Confidence: 0.99561656
01:05:37.725 --> 01:05:38.225 myocarditis,
NOTE Confidence: 0.90690476
01:05:38.685 --> 01:05:39.885 get it under control to
NOTE Confidence: 0.90690476
01:05:39.885 --> 01:05:41.245 get the patient safely to
NOTE Confidence: 0.90690476
01:05:41.245 --> 01:05:41.745 surgery.
NOTE Confidence: 0.94384766
01:05:42.890 --> 01:05:43.390 However,
NOTE Confidence: 0.9853558
01:05:44.010 --> 01:05:45.050 so when that lymph node
NOTE Confidence: 0.9853558
01:05:45.050 --> 01:05:46.170 came out, there was still
NOTE Confidence: 0.9853558
01:05:46.170 --> 01:05:47.850 some viable melanoma. A lot
NOTE Confidence: 0.9853558
01:05:47.850 --> 01:05:49.150 of it was necrotic.
NOTE Confidence: 0.9833627
01:05:50.330 --> 01:05:51.690 The patient, because of that
NOTE Confidence: 0.9833627
01:05:51.690 --> 01:05:53.210 BRAF status, ended up getting
NOTE Confidence: 0.9833627
01:05:53.210 --> 01:05:54.490 an additional year of BRAF
NOTE Confidence: 0.9833627
01:05:54.490 --> 01:05:56.830 MEK inhibitors and remains disease
NOTE Confidence: 0.9833627

01:05:56.890 --> 01:05:59.045 free to this day. Myocarditis
NOTE Confidence: 0.99316406

01:05:59.345 --> 01:05:59.845 treated
NOTE Confidence: 0.7832031

01:06:00.145 --> 01:06:00.885 doing well.
NOTE Confidence: 0.98706055

01:06:01.665 --> 01:06:02.865 And so again, kind of
NOTE Confidence: 0.98706055

01:06:02.865 --> 01:06:03.684 leading into
NOTE Confidence: 0.9115524

01:06:03.984 --> 01:06:05.825 my colleague, Doctor. Ishizuka, who's
NOTE Confidence: 0.9115524

01:06:05.825 --> 01:06:07.025 gonna talk to you about
NOTE Confidence: 0.9115524

01:06:07.025 --> 01:06:08.145 about where the field is
NOTE Confidence: 0.9115524

01:06:08.145 --> 01:06:08.645 moving.
NOTE Confidence: 0.9566127

01:06:09.505 --> 01:06:11.585 We're gonna talk about where
NOTE Confidence: 0.9566127

01:06:11.585 --> 01:06:12.385 we can,
NOTE Confidence: 0.93322754

01:06:12.865 --> 01:06:14.085 move in terms of
NOTE Confidence: 0.5872803

01:06:14.680 --> 01:06:15.660 cancer vaccines,
NOTE Confidence: 0.9953613

01:06:16.280 --> 01:06:17.420 cytokine therapies,
NOTE Confidence: 0.9875

01:06:18.360 --> 01:06:20.280 and adoptive cell therapies to
NOTE Confidence: 0.9875

01:06:20.280 --> 01:06:21.740 try to push this forward.

NOTE Confidence: 0.99438477
01:06:22.280 --> 01:06:23.100 Thank you.
NOTE Confidence: 0.9585833
01:06:38.325 --> 01:06:39.700 Great. Well, thank you so
NOTE Confidence: 0.9585833
01:06:39.700 --> 01:06:40.980 much for the opportunity to
NOTE Confidence: 0.9585833
01:06:40.980 --> 01:06:41.860 be here today and to
NOTE Confidence: 0.9585833
01:06:41.860 --> 01:06:42.820 tell you a little bit
NOTE Confidence: 0.9585833
01:06:42.820 --> 01:06:44.740 about clinical trials here at
NOTE Confidence: 0.9585833
01:06:44.740 --> 01:06:45.560 Yale and Melanoma.
NOTE Confidence: 0.9971134
01:06:47.060 --> 01:06:48.340 So a couple of things
NOTE Confidence: 0.9971134
01:06:48.340 --> 01:06:49.540 I want to impart in
NOTE Confidence: 0.9971134
01:06:49.540 --> 01:06:50.500 the course of of our
NOTE Confidence: 0.9971134
01:06:50.500 --> 01:06:51.615 conversation tonight.
NOTE Confidence: 0.96844953
01:06:52.494 --> 01:06:53.775 One is just to know
NOTE Confidence: 0.96844953
01:06:53.775 --> 01:06:55.695 that that trials are are
NOTE Confidence: 0.96844953
01:06:55.695 --> 01:06:56.994 strong treatment options
NOTE Confidence: 0.9755959
01:06:57.375 --> 01:06:59.235 that going into the selection
NOTE Confidence: 0.9755959

01:06:59.295 --> 01:07:00.415 for a trial to be
NOTE Confidence: 0.9755959

01:07:00.415 --> 01:07:02.175 even considered at Yale, we
NOTE Confidence: 0.9755959

01:07:02.175 --> 01:07:03.715 meet together as a group.
NOTE Confidence: 0.9755959

01:07:03.830 --> 01:07:05.270 We discuss the merits. We
NOTE Confidence: 0.9755959

01:07:05.270 --> 01:07:06.150 make sure that there's a
NOTE Confidence: 0.9755959

01:07:06.310 --> 01:07:07.690 that we see a benefit
NOTE Confidence: 0.9755959

01:07:07.910 --> 01:07:09.350 for our patients to even
NOTE Confidence: 0.9755959

01:07:09.350 --> 01:07:10.150 put it on the roster
NOTE Confidence: 0.9755959

01:07:10.150 --> 01:07:11.210 of things we consider.
NOTE Confidence: 0.99798584

01:07:12.870 --> 01:07:14.490 That leads into number two,
NOTE Confidence: 0.99798584

01:07:14.550 --> 01:07:15.530 which is that
NOTE Confidence: 0.9980469

01:07:16.525 --> 01:07:18.605 whenever we suggest a clinical
NOTE Confidence: 0.9980469

01:07:18.605 --> 01:07:19.825 trial as a consideration,
NOTE Confidence: 0.9946289

01:07:20.205 --> 01:07:21.645 it's because we think that
NOTE Confidence: 0.9946289

01:07:21.645 --> 01:07:22.865 it is potentially,
NOTE Confidence: 0.9975142

01:07:23.805 --> 01:07:25.005 a thing that could offer

NOTE Confidence: 0.9975142
01:07:25.005 --> 01:07:26.365 offer benefit and the most
NOTE Confidence: 0.9975142
01:07:26.365 --> 01:07:26.865 benefit
NOTE Confidence: 1
01:07:27.165 --> 01:07:27.985 to our patients.
NOTE Confidence: 0.9994575
01:07:28.750 --> 01:07:30.210 The third thing is that
NOTE Confidence: 0.9994575
01:07:30.350 --> 01:07:31.890 our clinical trial portfolio
NOTE Confidence: 0.95166016
01:07:32.350 --> 01:07:33.490 is always evolving,
NOTE Confidence: 0.99902344
01:07:34.270 --> 01:07:34.510 that
NOTE Confidence: 0.9784654
01:07:35.070 --> 01:07:36.190 you know, I'll talk about
NOTE Confidence: 0.9784654
01:07:36.190 --> 01:07:37.070 some of the trials that
NOTE Confidence: 0.9784654
01:07:37.070 --> 01:07:38.990 are available tonight, but at
NOTE Confidence: 0.9784654
01:07:38.990 --> 01:07:40.430 any given day, I won't
NOTE Confidence: 0.9784654
01:07:40.430 --> 01:07:41.470 try and cover every single
NOTE Confidence: 0.9784654
01:07:41.470 --> 01:07:42.990 trial. And at any given
NOTE Confidence: 0.9784654
01:07:42.990 --> 01:07:44.565 day, that trial portfolio
NOTE Confidence: 0.9838379
01:07:44.865 --> 01:07:46.625 may continue to evolve. So
NOTE Confidence: 0.9838379

01:07:46.625 --> 01:07:48.005 it's always worth a conversation
NOTE Confidence: 0.9838379

01:07:48.145 --> 01:07:49.745 with us at any stage
NOTE Confidence: 0.9838379

01:07:49.745 --> 01:07:51.105 of care. Sometimes we have
NOTE Confidence: 0.9838379

01:07:51.105 --> 01:07:52.705 trials for earlier stage disease,
NOTE Confidence: 0.9838379

01:07:52.705 --> 01:07:54.565 sometimes for later stage disease.
NOTE Confidence: 0.99934894

01:07:55.105 --> 01:07:56.145 So it's always worth that
NOTE Confidence: 0.99934894

01:07:56.145 --> 01:07:56.645 conversation.
NOTE Confidence: 0.98580396

01:07:58.660 --> 01:07:59.700 Many of you will know
NOTE Confidence: 0.98580396

01:07:59.700 --> 01:08:00.580 this. Some of you will
NOTE Confidence: 0.98580396

01:08:00.580 --> 01:08:02.340 have participated in clinical trials,
NOTE Confidence: 0.98580396

01:08:02.340 --> 01:08:03.940 but clinical trials are are
NOTE Confidence: 0.98580396

01:08:03.940 --> 01:08:05.940 carefully designed studies. They're carefully
NOTE Confidence: 0.98580396

01:08:05.940 --> 01:08:07.940 designed treatments that start with
NOTE Confidence: 0.98580396

01:08:07.940 --> 01:08:09.480 a strong scientific rationale,
NOTE Confidence: 1

01:08:10.020 --> 01:08:10.520 usually
NOTE Confidence: 0.9590731

01:08:11.075 --> 01:08:12.595 years of of studies and

NOTE Confidence: 0.9590731
01:08:12.595 --> 01:08:14.134 and all sorts of experimental
NOTE Confidence: 0.9590731
01:08:14.355 --> 01:08:14.855 models,
NOTE Confidence: 0.9889323
01:08:15.714 --> 01:08:16.755 as well as kind of
NOTE Confidence: 0.9889323
01:08:16.755 --> 01:08:18.195 safety testing and and,
NOTE Confidence: 0.99864364
01:08:18.915 --> 01:08:20.354 you know, prior to ever
NOTE Confidence: 0.99864364
01:08:20.354 --> 01:08:21.814 becoming a clinical trial.
NOTE Confidence: 0.9927368
01:08:22.354 --> 01:08:24.354 There's a whole infrastructure of
NOTE Confidence: 0.9927368
01:08:24.354 --> 01:08:26.340 oversight for safety here at
NOTE Confidence: 0.9927368
01:08:26.340 --> 01:08:27.460 Yale and for the clinical
NOTE Confidence: 0.9927368
01:08:27.460 --> 01:08:28.840 trials that are run nationally.
NOTE Confidence: 0.8961914
01:08:30.500 --> 01:08:31.800 And that in many cases,
NOTE Confidence: 0.984592
01:08:32.100 --> 01:08:33.939 clinical trials mean more frequent
NOTE Confidence: 0.984592
01:08:33.939 --> 01:08:35.939 points of contact, right, for
NOTE Confidence: 0.984592
01:08:35.939 --> 01:08:37.219 safety monitoring and so that
NOTE Confidence: 0.984592
01:08:37.219 --> 01:08:38.040 we can observe,
NOTE Confidence: 0.9909363

01:08:38.420 --> 01:08:39.860 what's happening with the trial,
NOTE Confidence: 0.9909363

01:08:40.020 --> 01:08:41.080 in in you.
NOTE Confidence: 1

01:08:42.795 --> 01:08:44.175 Our fundamental motivation
NOTE Confidence: 0.99403214

01:08:45.354 --> 01:08:46.895 is twofold. Right?
NOTE Confidence: 0.99960047

01:08:47.354 --> 01:08:48.315 One thing is that we
NOTE Confidence: 0.99960047

01:08:48.315 --> 01:08:49.275 want to move the field
NOTE Confidence: 0.99960047

01:08:49.275 --> 01:08:49.775 forward.
NOTE Confidence: 0.97608584

01:08:50.155 --> 01:08:50.875 This is a group of
NOTE Confidence: 0.97608584

01:08:50.875 --> 01:08:51.835 people that go to bed
NOTE Confidence: 0.97608584

01:08:51.835 --> 01:08:52.795 thinking about these things. They
NOTE Confidence: 0.97608584

01:08:52.795 --> 01:08:53.915 get up thinking about these
NOTE Confidence: 0.97608584

01:08:53.915 --> 01:08:54.415 things.
NOTE Confidence: 0.9678548

01:08:55.035 --> 01:08:56.430 Every patient that we can't
NOTE Confidence: 0.9678548

01:08:56.510 --> 01:08:58.770 help stays with us. And
NOTE Confidence: 0.9678548

01:08:58.990 --> 01:09:00.270 so more than anything, we
NOTE Confidence: 0.9678548

01:09:00.270 --> 01:09:01.229 wanna put ourselves out of

NOTE Confidence: 0.9678548
01:09:01.229 --> 01:09:02.430 business. We wanna create new
NOTE Confidence: 0.9678548
01:09:02.430 --> 01:09:03.330 treatment options.
NOTE Confidence: 0.9976337
01:09:03.870 --> 01:09:04.590 And so there is a
NOTE Confidence: 0.9976337
01:09:04.590 --> 01:09:06.030 strong motivation to move the
NOTE Confidence: 0.9976337
01:09:06.030 --> 01:09:07.090 field forward scientifically.
NOTE Confidence: 0.9988723
01:09:07.790 --> 01:09:08.670 But the other thing we're
NOTE Confidence: 0.9988723
01:09:08.670 --> 01:09:09.870 looking for is to give
NOTE Confidence: 0.9988723
01:09:09.870 --> 01:09:10.965 the best options and give
NOTE Confidence: 0.9988723
01:09:10.965 --> 01:09:12.425 a greater array of options
NOTE Confidence: 0.9988723
01:09:12.485 --> 01:09:12.985 today.
NOTE Confidence: 0.9898423
01:09:13.765 --> 01:09:15.525 And so, you know, when
NOTE Confidence: 0.9898423
01:09:15.525 --> 01:09:16.645 we're thinking about trials, we're
NOTE Confidence: 0.9898423
01:09:16.645 --> 01:09:17.845 also doing that. We're thinking
NOTE Confidence: 0.9898423
01:09:17.845 --> 01:09:18.645 about how do we create
NOTE Confidence: 0.9898423
01:09:18.645 --> 01:09:20.485 a portfolio of options at
NOTE Confidence: 0.9898423

01:09:20.485 --> 01:09:21.765 as many stages of care
NOTE Confidence: 0.9898423

01:09:21.765 --> 01:09:22.665 as we can,
NOTE Confidence: 0.9895368

01:09:22.980 --> 01:09:24.100 and how do we pick
NOTE Confidence: 0.9895368

01:09:24.100 --> 01:09:25.540 the things and and look
NOTE Confidence: 0.9895368

01:09:25.540 --> 01:09:26.600 for the best opportunities
NOTE Confidence: 0.97246635

01:09:27.140 --> 01:09:28.740 that we think have, the
NOTE Confidence: 0.97246635

01:09:28.740 --> 01:09:30.120 greatest chance of benefit.
NOTE Confidence: 0.9897017

01:09:32.260 --> 01:09:33.540 So this is the guiding
NOTE Confidence: 0.9897017

01:09:33.540 --> 01:09:34.740 principle. What is best for
NOTE Confidence: 0.9897017

01:09:34.740 --> 01:09:35.780 the patient in front of
NOTE Confidence: 0.9897017

01:09:35.780 --> 01:09:37.515 me? Anytime we're having a
NOTE Confidence: 0.9897017

01:09:37.515 --> 01:09:38.495 trial conversation,
NOTE Confidence: 0.9995292

01:09:38.955 --> 01:09:40.395 that's what that's what we're
NOTE Confidence: 0.9995292

01:09:40.395 --> 01:09:41.675 thinking about. If we think
NOTE Confidence: 0.9995292

01:09:41.675 --> 01:09:43.354 that standard therapies are the
NOTE Confidence: 0.9995292

01:09:43.354 --> 01:09:44.715 best option for you, we

NOTE Confidence: 0.9995292
01:09:44.715 --> 01:09:45.755 will tell you in a
NOTE Confidence: 0.9995292
01:09:45.755 --> 01:09:47.135 very straightforward way.
NOTE Confidence: 0.94661456
01:09:49.195 --> 01:09:50.635 A question that sometimes comes
NOTE Confidence: 0.94661456
01:09:50.635 --> 01:09:51.950 up, people say, and I've
NOTE Confidence: 0.94661456
01:09:51.950 --> 01:09:53.070 heard my patients say to
NOTE Confidence: 0.94661456
01:09:53.070 --> 01:09:54.030 me, I don't wanna be
NOTE Confidence: 0.94661456
01:09:54.030 --> 01:09:54.910 a guinea pig. I don't
NOTE Confidence: 0.94661456
01:09:54.910 --> 01:09:55.710 wanna be I don't wanna
NOTE Confidence: 0.94661456
01:09:55.710 --> 01:09:56.930 be experimented on.
NOTE Confidence: 0.97434896
01:09:57.550 --> 01:09:58.590 And I think there's a
NOTE Confidence: 0.97434896
01:09:58.590 --> 01:09:59.790 couple things to think through
NOTE Confidence: 0.97434896
01:09:59.790 --> 01:10:01.250 in response to that question.
NOTE Confidence: 0.97434896
01:10:01.390 --> 01:10:03.070 Right? Some of them I've
NOTE Confidence: 0.97434896
01:10:03.070 --> 01:10:04.365 already kind of laid out
NOTE Confidence: 0.97434896
01:10:04.685 --> 01:10:06.285 that this trial never made
NOTE Confidence: 0.97434896

01:10:06.285 --> 01:10:07.325 it here unless we had
NOTE Confidence: 0.97434896

01:10:07.325 --> 01:10:08.285 thought it had a chance
NOTE Confidence: 0.97434896

01:10:08.285 --> 01:10:10.305 of benefit. And then fundamentally,
NOTE Confidence: 0.9976196

01:10:11.485 --> 01:10:12.845 we wouldn't be suggesting it
NOTE Confidence: 0.9976196

01:10:12.845 --> 01:10:13.725 if we didn't think it
NOTE Confidence: 0.9976196

01:10:13.725 --> 01:10:15.585 was as good or better
NOTE Confidence: 0.9976196

01:10:15.645 --> 01:10:17.005 than the standard of care
NOTE Confidence: 0.9976196

01:10:17.005 --> 01:10:18.465 options that we can offer
NOTE Confidence: 0.9976196

01:10:18.750 --> 01:10:19.489 at that time.
NOTE Confidence: 0.99758476

01:10:20.429 --> 01:10:22.189 And so, you know, there's
NOTE Confidence: 0.99758476

01:10:22.189 --> 01:10:23.070 a lot that goes into
NOTE Confidence: 0.99758476

01:10:23.070 --> 01:10:24.349 the process depending on the
NOTE Confidence: 0.99758476

01:10:24.349 --> 01:10:25.469 phase of the trial, but
NOTE Confidence: 0.99758476

01:10:25.469 --> 01:10:27.170 there's always a tremendous amount
NOTE Confidence: 0.99758476

01:10:27.389 --> 01:10:28.530 of of oversight,
NOTE Confidence: 0.9626007

01:10:28.989 --> 01:10:30.269 both within the clinic here

NOTE Confidence: 0.9626007
01:10:30.269 --> 01:10:31.469 and actually a whole staff
NOTE Confidence: 0.9626007
01:10:31.469 --> 01:10:32.510 of people outside of the
NOTE Confidence: 0.9626007
01:10:32.510 --> 01:10:33.010 clinic,
NOTE Confidence: 0.9723697
01:10:33.454 --> 01:10:34.255 many of which you get
NOTE Confidence: 0.9723697
01:10:34.255 --> 01:10:35.314 to know if you participate
NOTE Confidence: 0.9723697
01:10:35.534 --> 01:10:37.054 in, well, they'll come into
NOTE Confidence: 0.9723697
01:10:37.054 --> 01:10:38.255 the clinic as well in
NOTE Confidence: 0.9723697
01:10:38.255 --> 01:10:39.235 a clinical trial.
NOTE Confidence: 0.97509766
01:10:40.335 --> 01:10:40.835 So
NOTE Confidence: 0.9925537
01:10:41.295 --> 01:10:42.735 I wanna think through a
NOTE Confidence: 0.9925537
01:10:42.735 --> 01:10:44.814 couple of the the types
NOTE Confidence: 0.9925537
01:10:44.814 --> 01:10:45.474 of trials
NOTE Confidence: 1
01:10:45.775 --> 01:10:46.594 that are
NOTE Confidence: 0.9949544
01:10:47.210 --> 01:10:48.489 going on here at Yale
NOTE Confidence: 0.9949544
01:10:48.489 --> 01:10:49.929 now. I won't spend a
NOTE Confidence: 0.9949544

01:10:49.929 --> 01:10:51.290 long time on them. You
NOTE Confidence: 0.9949544

01:10:51.290 --> 01:10:52.570 could spend an hour talking
NOTE Confidence: 0.9949544

01:10:52.570 --> 01:10:53.290 about each of them, and
NOTE Confidence: 0.9949544

01:10:53.290 --> 01:10:54.090 I I think you guys
NOTE Confidence: 0.9949544

01:10:54.090 --> 01:10:55.210 wouldn't like that that much.
NOTE Confidence: 0.9949544

01:10:55.210 --> 01:10:55.710 But,
NOTE Confidence: 0.99562424

01:10:56.570 --> 01:10:57.530 you know, I'll talk about
NOTE Confidence: 0.99562424

01:10:57.530 --> 01:10:58.909 a couple of different lanes
NOTE Confidence: 0.99562424

01:10:58.969 --> 01:11:00.030 of of therapy.
NOTE Confidence: 0.9767578

01:11:00.405 --> 01:11:02.645 Right? A frontline study for,
NOTE Confidence: 0.93558174

01:11:03.125 --> 01:11:04.085 you know, if you haven't
NOTE Confidence: 0.93558174

01:11:04.085 --> 01:11:05.845 started treatment and actually some
NOTE Confidence: 0.93558174

01:11:05.845 --> 01:11:07.145 studies that are available
NOTE Confidence: 0.96308595

01:11:07.525 --> 01:11:09.285 even if if you've gone
NOTE Confidence: 0.96308595

01:11:09.285 --> 01:11:10.564 through and progressed through a
NOTE Confidence: 0.96308595

01:11:10.564 --> 01:11:12.670 prior treatment. Right? In some

NOTE Confidence: 0.96308595

01:11:12.670 --> 01:11:14.430 cases, while studies even earlier

NOTE Confidence: 0.96308595

01:11:14.430 --> 01:11:16.210 phase than these as well.

NOTE Confidence: 0.99723095

01:11:17.390 --> 01:11:18.270 And, you know, as a

NOTE Confidence: 0.99723095

01:11:18.270 --> 01:11:19.490 as a kind of framework

NOTE Confidence: 0.99723095

01:11:19.550 --> 01:11:20.590 for how we're thinking about

NOTE Confidence: 0.99723095

01:11:20.590 --> 01:11:22.770 this, doctor Tran laid out,

NOTE Confidence: 0.99723095

01:11:23.070 --> 01:11:24.110 as well as the targeted

NOTE Confidence: 0.99723095

01:11:24.110 --> 01:11:25.630 therapies, the great benefits that

NOTE Confidence: 0.99723095

01:11:25.630 --> 01:11:26.670 have come with the development

NOTE Confidence: 0.99723095

01:11:26.670 --> 01:11:27.490 of the immunotherapies.

NOTE Confidence: 0.9879883

01:11:28.325 --> 01:11:28.885 And so a lot of

NOTE Confidence: 0.9879883

01:11:28.885 --> 01:11:29.925 the things you'll hear me

NOTE Confidence: 0.9879883

01:11:29.925 --> 01:11:31.285 talk about, the ideas that

NOTE Confidence: 0.9879883

01:11:31.285 --> 01:11:32.165 are being tested in the

NOTE Confidence: 0.9879883

01:11:32.165 --> 01:11:34.165 clinic, focus on the, this,

NOTE Confidence: 0.9879883

01:11:34.405 --> 01:11:35.925 this general concept of how
NOTE Confidence: 0.9879883

01:11:35.925 --> 01:11:36.805 do we make the immune
NOTE Confidence: 0.9879883

01:11:36.805 --> 01:11:38.505 system work better against cancers.
NOTE Confidence: 0.9617048

01:11:38.885 --> 01:11:40.325 Right? You'll hear a lot
NOTE Confidence: 0.9617048

01:11:40.325 --> 01:11:40.985 of that.
NOTE Confidence: 0.99853516

01:11:41.365 --> 01:11:41.865 Okay.
NOTE Confidence: 0.9951172

01:11:42.485 --> 01:11:42.985 So
NOTE Confidence: 0.9871826

01:11:43.639 --> 01:11:44.380 just briefly,
NOTE Confidence: 0.9844194

01:11:45.079 --> 01:11:46.520 this is, the the first
NOTE Confidence: 0.9844194

01:11:46.520 --> 01:11:47.900 trial is one for patients
NOTE Confidence: 0.9844194

01:11:48.040 --> 01:11:50.040 who have not yet started
NOTE Confidence: 0.9844194

01:11:50.040 --> 01:11:51.479 therapy. It is a a
NOTE Confidence: 0.9844194

01:11:51.479 --> 01:11:52.540 frontline trial.
NOTE Confidence: 0.99902344

01:11:53.159 --> 01:11:53.820 It uses
NOTE Confidence: 0.8778358

01:11:54.360 --> 01:11:55.719 two agents, p d one
NOTE Confidence: 0.8778358

01:11:55.719 --> 01:11:57.320 and and LAG three that,

NOTE Confidence: 0.8778358
01:11:57.560 --> 01:11:58.939 doctor Tran described.
NOTE Confidence: 0.99216306
01:11:59.405 --> 01:12:00.765 In this case, it's testing
NOTE Confidence: 0.99216306
01:12:00.765 --> 01:12:02.285 a different type of PD
NOTE Confidence: 0.99216306
01:12:02.285 --> 01:12:03.485 one and LAG three, different
NOTE Confidence: 0.99216306
01:12:03.485 --> 01:12:04.864 types of drugs that target,
NOTE Confidence: 0.81103516
01:12:05.485 --> 01:12:06.785 at target these checkpoints
NOTE Confidence: 0.99013156
01:12:07.325 --> 01:12:09.165 and at different doses. And
NOTE Confidence: 0.99013156
01:12:09.165 --> 01:12:10.045 and, you know, part of,
NOTE Confidence: 0.99013156
01:12:10.045 --> 01:12:11.005 I guess, the learning there
NOTE Confidence: 0.99013156
01:12:11.005 --> 01:12:12.064 is it's it's potentially,
NOTE Confidence: 0.9598633
01:12:13.580 --> 01:12:14.960 we we do see, although
NOTE Confidence: 0.9976562
01:12:15.260 --> 01:12:16.780 many of these drugs target
NOTE Confidence: 0.9976562
01:12:16.780 --> 01:12:18.800 the same fundamental immune targets,
NOTE Confidence: 0.98484206
01:12:19.500 --> 01:12:20.300 that they can work in
NOTE Confidence: 0.98484206
01:12:20.300 --> 01:12:22.380 slightly different ways, that the
NOTE Confidence: 0.98484206

01:12:22.380 --> 01:12:23.260 the way you make the
NOTE Confidence: 0.98484206

01:12:23.260 --> 01:12:24.620 molecules, the way that you
NOTE Confidence: 0.98484206

01:12:24.620 --> 01:12:25.600 dose the molecules
NOTE Confidence: 0.9881592

01:12:25.979 --> 01:12:27.180 can have an effect on
NOTE Confidence: 0.9881592

01:12:27.180 --> 01:12:29.055 the overall immune response. And
NOTE Confidence: 0.9881592

01:12:29.055 --> 01:12:30.515 so, you know, the hypothesis
NOTE Confidence: 0.9881592

01:12:30.575 --> 01:12:32.255 here is that even though
NOTE Confidence: 0.9881592

01:12:32.255 --> 01:12:33.935 these two arms are targeting
NOTE Confidence: 0.9881592

01:12:33.935 --> 01:12:35.295 the same two sets of
NOTE Confidence: 0.9881592

01:12:35.295 --> 01:12:36.195 immune checkpoints,
NOTE Confidence: 0.9411621

01:12:36.575 --> 01:12:37.075 that,
NOTE Confidence: 0.987103

01:12:37.455 --> 01:12:38.655 by using a different drug
NOTE Confidence: 0.987103

01:12:38.655 --> 01:12:39.775 that is tuned differently and
NOTE Confidence: 0.987103

01:12:39.775 --> 01:12:41.135 at different doses, that you
NOTE Confidence: 0.987103

01:12:41.135 --> 01:12:41.935 may be able to get
NOTE Confidence: 0.987103

01:12:41.935 --> 01:12:42.835 a better response.

NOTE Confidence: 0.9876762
01:12:45.460 --> 01:12:46.979 The the other trials I'll
NOTE Confidence: 0.9876762
01:12:46.979 --> 01:12:48.100 talk about are for later
NOTE Confidence: 0.9876762
01:12:48.100 --> 01:12:49.860 lines of care, so patients
NOTE Confidence: 0.9876762
01:12:49.860 --> 01:12:51.139 who have have progressed through
NOTE Confidence: 0.9876762
01:12:51.139 --> 01:12:52.280 some prior therapy.
NOTE Confidence: 0.9978943
01:12:52.739 --> 01:12:54.100 And, this is this is
NOTE Confidence: 0.9978943
01:12:54.100 --> 01:12:55.080 an oral medication
NOTE Confidence: 0.9559462
01:12:55.780 --> 01:12:56.760 called a PTPN
NOTE Confidence: 0.996244
01:12:57.139 --> 01:12:58.725 two inhibitor. We won't quiz
NOTE Confidence: 0.996244
01:12:58.725 --> 01:13:00.245 you on the the acronyms
NOTE Confidence: 0.996244
01:13:00.245 --> 01:13:00.985 at the end.
NOTE Confidence: 0.9978751
01:13:01.604 --> 01:13:03.045 But the idea here is
NOTE Confidence: 0.9978751
01:13:03.045 --> 01:13:04.005 that you're doing a couple
NOTE Confidence: 0.9978751
01:13:04.005 --> 01:13:05.525 of separate things that are
NOTE Confidence: 0.9978751
01:13:05.525 --> 01:13:06.805 are different to improve the
NOTE Confidence: 0.9978751

01:13:06.805 --> 01:13:08.645 immune system. One is that
NOTE Confidence: 0.9978751

01:13:08.645 --> 01:13:09.465 you're helping,
NOTE Confidence: 0.9885498

01:13:10.085 --> 01:13:11.445 some of your immune active
NOTE Confidence: 0.9885498

01:13:11.604 --> 01:13:13.045 your active immune cells called
NOTE Confidence: 0.9885498

01:13:13.045 --> 01:13:14.890 t cells to function better.
NOTE Confidence: 0.9885498

01:13:14.950 --> 01:13:15.990 And the other is that
NOTE Confidence: 0.9885498

01:13:15.990 --> 01:13:17.670 you're targeting the tumors to
NOTE Confidence: 0.9885498

01:13:17.670 --> 01:13:19.590 become more responsive to some
NOTE Confidence: 0.9885498

01:13:19.590 --> 01:13:20.550 of the signals that are
NOTE Confidence: 0.9885498

01:13:20.550 --> 01:13:21.770 made by the t cells.
NOTE Confidence: 0.9859794

01:13:24.390 --> 01:13:25.670 Our our next trial that
NOTE Confidence: 0.9859794

01:13:25.670 --> 01:13:26.330 I'll mention
NOTE Confidence: 0.99001175

01:13:26.685 --> 01:13:27.965 is a way of doing
NOTE Confidence: 0.99001175

01:13:27.965 --> 01:13:29.005 two of the things that
NOTE Confidence: 0.99001175

01:13:29.005 --> 01:13:30.604 doctor Tran mentioned. She mentioned
NOTE Confidence: 0.99001175

01:13:30.604 --> 01:13:31.724 kind of cutting the brakes

NOTE Confidence: 0.99001175

01:13:31.724 --> 01:13:32.925 on the immune system with

NOTE Confidence: 0.99001175

01:13:32.925 --> 01:13:35.425 immune checkpoint inhibitors, but also

NOTE Confidence: 0.99001175

01:13:35.564 --> 01:13:36.945 kind of giving cytokines,

NOTE Confidence: 0.9988932

01:13:37.965 --> 01:13:39.645 that can sort of feed

NOTE Confidence: 0.9988932

01:13:39.645 --> 01:13:40.925 the the immune cells to

NOTE Confidence: 0.9988932

01:13:40.925 --> 01:13:42.385 help them grow and function.

NOTE Confidence: 0.9966179

01:13:43.110 --> 01:13:44.310 So in this trial, you're

NOTE Confidence: 0.9966179

01:13:44.310 --> 01:13:45.430 trying to combine those two

NOTE Confidence: 0.9966179

01:13:45.430 --> 01:13:47.110 ideas. And if you remember,

NOTE Confidence: 0.9966179

01:13:47.110 --> 01:13:48.710 doctor Tran mentioned that one

NOTE Confidence: 0.9966179

01:13:48.710 --> 01:13:49.750 of the problems with some

NOTE Confidence: 0.9966179

01:13:49.750 --> 01:13:50.950 of the cytokines is that

NOTE Confidence: 0.9966179

01:13:50.950 --> 01:13:52.250 they can have toxicities

NOTE Confidence: 0.9682531

01:13:52.550 --> 01:13:54.310 when given systemically, problems with

NOTE Confidence: 0.9682531

01:13:54.310 --> 01:13:55.770 blood pressure or other issues.

NOTE Confidence: 0.9682531

01:13:56.005 --> 01:13:57.125 And so in this case,
NOTE Confidence: 0.9682531

01:13:57.125 --> 01:13:58.665 you're trying to deliver
NOTE Confidence: 0.9916992

01:13:58.965 --> 01:13:59.785 this immune,
NOTE Confidence: 0.99812824

01:14:00.165 --> 01:14:01.604 cytokine just to the cells
NOTE Confidence: 0.99812824

01:14:01.604 --> 01:14:03.125 that need it. Right? And
NOTE Confidence: 0.99812824

01:14:03.125 --> 01:14:04.665 so that's that's one idea.
NOTE Confidence: 0.9484221

01:14:06.165 --> 01:14:08.104 Another variant of this idea
NOTE Confidence: 0.9484221

01:14:08.320 --> 01:14:09.920 that works along a similar
NOTE Confidence: 0.9484221

01:14:09.920 --> 01:14:11.040 line but using a different
NOTE Confidence: 0.9484221

01:14:11.040 --> 01:14:12.340 type of immune stimulatory
NOTE Confidence: 0.9501953

01:14:12.720 --> 01:14:14.160 signal is is this trial
NOTE Confidence: 0.9501953

01:14:14.160 --> 01:14:16.240 by Asher Bio using a,
NOTE Confidence: 0.9590088

01:14:16.880 --> 01:14:18.320 an agent that targets an
NOTE Confidence: 0.9590088

01:14:18.320 --> 01:14:19.760 immune cells called CD eight
NOTE Confidence: 0.9590088

01:14:19.760 --> 01:14:21.520 t cells and delivers to
NOTE Confidence: 0.9590088

01:14:21.520 --> 01:14:23.780 them this immune activating cytokine

NOTE Confidence: 0.9465332
01:14:24.155 --> 01:14:25.535 called IL twenty one.
NOTE Confidence: 0.9813756
01:14:26.075 --> 01:14:27.515 And so, you know, the
NOTE Confidence: 0.9813756
01:14:27.515 --> 01:14:28.415 idea here,
NOTE Confidence: 0.9793701
01:14:28.875 --> 01:14:29.995 it may work out to
NOTE Confidence: 0.9793701
01:14:29.995 --> 01:14:31.275 be that different patients will
NOTE Confidence: 0.9793701
01:14:31.275 --> 01:14:32.635 benefit from different things, and
NOTE Confidence: 0.9793701
01:14:32.635 --> 01:14:33.435 that's part of what we're
NOTE Confidence: 0.9793701
01:14:33.435 --> 01:14:34.475 trying to learn here as
NOTE Confidence: 0.9793701
01:14:34.475 --> 01:14:34.975 well.
NOTE Confidence: 0.94873047
01:14:37.369 --> 01:14:37.869 Finally,
NOTE Confidence: 0.98107266
01:14:38.650 --> 01:14:40.330 there's there's a trial that
NOTE Confidence: 0.98107266
01:14:40.330 --> 01:14:41.770 tries to take the to
NOTE Confidence: 0.98107266
01:14:41.770 --> 01:14:42.889 to try to tries to
NOTE Confidence: 0.98107266
01:14:42.889 --> 01:14:44.030 take out a negative,
NOTE Confidence: 0.99266416
01:14:45.610 --> 01:14:47.770 sponge that blocks an immune
NOTE Confidence: 0.99266416

01:14:47.770 --> 01:14:49.885 activating cytokine from working. So,
NOTE Confidence: 0.99266416

01:14:49.885 --> 01:14:51.165 again, this is an antibody
NOTE Confidence: 0.99266416

01:14:51.165 --> 01:14:52.364 therapy, but one that will
NOTE Confidence: 0.99266416

01:14:52.364 --> 01:14:52.864 actually,
NOTE Confidence: 0.9895833

01:14:53.405 --> 01:14:54.465 block the inhibitor.
NOTE Confidence: 0.98832774

01:14:54.844 --> 01:14:55.645 And a lot of the
NOTE Confidence: 0.98832774

01:14:55.645 --> 01:14:57.405 the fundamental science for for
NOTE Confidence: 0.98832774

01:14:57.405 --> 01:14:59.425 tumor immunology for this pathway
NOTE Confidence: 0.98832774

01:14:59.485 --> 01:15:00.844 was worked out here at
NOTE Confidence: 0.98832774

01:15:00.844 --> 01:15:01.344 Yale.
NOTE Confidence: 0.9982666

01:15:01.804 --> 01:15:03.104 But the hope is that
NOTE Confidence: 0.9982666

01:15:03.165 --> 01:15:05.479 this, this type of approach
NOTE Confidence: 0.99921876

01:15:06.020 --> 01:15:07.540 will take an important break
NOTE Confidence: 0.99921876

01:15:07.540 --> 01:15:09.140 off of the immune system
NOTE Confidence: 0.99921876

01:15:09.140 --> 01:15:10.280 and make it work better.
NOTE Confidence: 0.9515381

01:15:12.500 --> 01:15:14.500 You know, doctor Tran kind

NOTE Confidence: 0.9515381
01:15:14.500 --> 01:15:16.260 of weighed caught risks and
NOTE Confidence: 0.9515381
01:15:16.260 --> 01:15:17.700 benefits. You have to think
NOTE Confidence: 0.9515381
01:15:17.700 --> 01:15:19.240 about that with clinical trials
NOTE Confidence: 0.9515381
01:15:19.300 --> 01:15:19.845 as well.
NOTE Confidence: 0.9984131
01:15:20.645 --> 01:15:21.625 You know, in terms
NOTE Confidence: 0.9714007
01:15:22.085 --> 01:15:23.845 of cost, cost to to
NOTE Confidence: 0.9714007
01:15:23.845 --> 01:15:24.505 the patient,
NOTE Confidence: 0.9840495
01:15:25.365 --> 01:15:26.725 standard of care portions of
NOTE Confidence: 0.9840495
01:15:26.725 --> 01:15:28.325 the visit are generally covered
NOTE Confidence: 0.9840495
01:15:28.325 --> 01:15:29.845 by insurance, and then the
NOTE Confidence: 0.9840495
01:15:29.845 --> 01:15:31.365 study drug and study specific
NOTE Confidence: 0.9840495
01:15:31.365 --> 01:15:32.965 tests are usually paid for
NOTE Confidence: 0.9840495
01:15:32.965 --> 01:15:34.670 by the trial sponsor, but
NOTE Confidence: 0.9840495
01:15:34.670 --> 01:15:35.969 it doesn't mean that there
NOTE Confidence: 0.9840495
01:15:36.189 --> 01:15:37.870 cannot be any extra burden
NOTE Confidence: 0.9840495

01:15:37.870 --> 01:15:39.409 of travel and of time.
NOTE Confidence: 0.9899414

01:15:40.110 --> 01:15:41.870 In many cases, you're talking
NOTE Confidence: 0.9899414

01:15:41.870 --> 01:15:44.130 about further visits with us.
NOTE Confidence: 0.96809316

01:15:44.590 --> 01:15:45.630 And so that means, you
NOTE Confidence: 0.96809316

01:15:45.630 --> 01:15:46.750 know, getting you here to
NOTE Confidence: 0.96809316

01:15:46.750 --> 01:15:48.110 the clinic or at some
NOTE Confidence: 0.96809316

01:15:48.189 --> 01:15:49.554 in some cases, we can
NOTE Confidence: 0.96809316

01:15:49.554 --> 01:15:51.175 offer trials at our satellites
NOTE Confidence: 0.96809316

01:15:51.314 --> 01:15:52.434 sites as well. So it's
NOTE Confidence: 0.96809316

01:15:52.434 --> 01:15:53.635 not always here, but in
NOTE Confidence: 0.96809316

01:15:53.635 --> 01:15:55.314 many cases, the trials are
NOTE Confidence: 0.96809316

01:15:55.314 --> 01:15:56.375 centralized here.
NOTE Confidence: 0.99676514

01:15:56.994 --> 01:15:58.195 And then, of course, there's
NOTE Confidence: 0.99676514

01:15:58.195 --> 01:15:59.094 the time component.
NOTE Confidence: 0.97968

01:15:59.795 --> 01:16:01.974 This added oversight for safety
NOTE Confidence: 0.97968

01:16:02.034 --> 01:16:03.715 often means a a greater

NOTE Confidence: 0.97968
01:16:03.715 --> 01:16:05.360 amount of time spent, you
NOTE Confidence: 0.97968
01:16:05.360 --> 01:16:06.479 know, coming to clinic and
NOTE Confidence: 0.97968
01:16:06.479 --> 01:16:07.360 and being with us in
NOTE Confidence: 0.97968
01:16:07.360 --> 01:16:07.860 clinic.
NOTE Confidence: 0.9660457
01:16:09.920 --> 01:16:10.960 I just wanna leave you
NOTE Confidence: 0.9660457
01:16:10.960 --> 01:16:12.160 with, you know, the this
NOTE Confidence: 0.9660457
01:16:12.160 --> 01:16:13.280 idea again that,
NOTE Confidence: 0.9948397
01:16:14.560 --> 01:16:16.500 it's less about any particular
NOTE Confidence: 0.9948397
01:16:16.720 --> 01:16:18.000 trial that I I kind
NOTE Confidence: 0.9948397
01:16:18.000 --> 01:16:19.474 of talked very briefly about
NOTE Confidence: 0.9948397
01:16:19.474 --> 01:16:20.594 today and more about this
NOTE Confidence: 0.9948397
01:16:20.594 --> 01:16:21.574 overall framework,
NOTE Confidence: 0.9914551
01:16:22.195 --> 01:16:22.695 that,
NOTE Confidence: 0.97762626
01:16:23.074 --> 01:16:24.835 you know, these are are
NOTE Confidence: 0.97762626
01:16:24.835 --> 01:16:26.195 options that are reasonable to
NOTE Confidence: 0.97762626

01:16:26.195 --> 01:16:27.474 consider and that this is
NOTE Confidence: 0.97762626

01:16:27.474 --> 01:16:29.235 a conversation that we'd welcome
NOTE Confidence: 0.97762626

01:16:29.235 --> 01:16:30.675 having with with any of
NOTE Confidence: 0.97762626

01:16:30.675 --> 01:16:31.574 you or anyone,
NOTE Confidence: 0.9996745

01:16:32.114 --> 01:16:33.094 at any point.
NOTE Confidence: 0.9914551

01:16:33.979 --> 01:16:34.860 With that, I'll wrap up,
NOTE Confidence: 0.9914551

01:16:34.860 --> 01:16:35.679 and thank you.
NOTE Confidence: 0.8740479

01:16:43.100 --> 01:16:44.620 Have our our panels to
NOTE Confidence: 0.8740479

01:16:44.620 --> 01:16:45.920 come up to the front.
NOTE Confidence: 0.91946846

01:16:57.035 --> 01:16:58.235 But you guys have listened
NOTE Confidence: 0.91946846

01:16:58.235 --> 01:16:58.975 to us
NOTE Confidence: 0.682251

01:16:59.275 --> 01:16:59.775 talk,
NOTE Confidence: 0.8758878

01:17:00.410 --> 01:17:01.450 And you haven't left yet,
NOTE Confidence: 0.8758878

01:17:01.450 --> 01:17:02.410 so that's always a good
NOTE Confidence: 0.8758878

01:17:02.410 --> 01:17:02.910 sign.
NOTE Confidence: 0.9104004

01:17:03.290 --> 01:17:03.790 But,

NOTE Confidence: 0.96146333
01:17:04.650 --> 01:17:05.770 you know, this is an
NOTE Confidence: 0.96146333
01:17:05.770 --> 01:17:06.810 opportunity we want all of
NOTE Confidence: 0.96146333
01:17:06.810 --> 01:17:07.870 you guys to
NOTE Confidence: 0.9595459
01:17:08.490 --> 01:17:10.490 ask us questions, anything that's
NOTE Confidence: 0.9595459
01:17:10.490 --> 01:17:11.790 come up during the talks,
NOTE Confidence: 0.9440756
01:17:12.170 --> 01:17:13.850 anything at all, and doctor
NOTE Confidence: 0.9440756
01:17:13.850 --> 01:17:15.710 Kluger will will moderate that.
NOTE Confidence: 0.7319336
01:17:16.465 --> 01:17:16.965 Excellent
NOTE Confidence: 0.9291483
01:17:17.345 --> 01:17:18.865 job. Yes. Let's do that,
NOTE Confidence: 0.9291483
01:17:18.865 --> 01:17:20.145 please. Let's start off with
NOTE Confidence: 0.9291483
01:17:20.145 --> 01:17:21.905 doctor Westwick, if you wouldn't
NOTE Confidence: 0.9291483
01:17:21.905 --> 01:17:24.005 mind. Thank you. Thank you.
NOTE Confidence: 0.7830404
01:17:24.625 --> 01:17:25.445 Yeah. I'm.
NOTE Confidence: 0.96824
01:17:26.385 --> 01:17:27.825 I'm a plastic surgeon, and
NOTE Confidence: 0.96824
01:17:27.825 --> 01:17:29.045 I work with the melanoma
NOTE Confidence: 0.96824

01:17:29.104 --> 01:17:31.045 team together with doctor Alina.

NOTE Confidence: 0.930542

01:17:31.620 --> 01:17:33.380 And Carlos, the PA who

NOTE Confidence: 0.930542

01:17:33.380 --> 01:17:34.360 keeps me straight.

NOTE Confidence: 0.9966169

01:17:35.699 --> 01:17:36.900 Pretty much, you know, my

NOTE Confidence: 0.9966169

01:17:36.900 --> 01:17:37.719 job is

NOTE Confidence: 1

01:17:38.340 --> 01:17:39.479 to try to help

NOTE Confidence: 0.9961141

01:17:39.939 --> 01:17:41.139 any patient to get rid

NOTE Confidence: 0.9961141

01:17:41.139 --> 01:17:42.340 of their melanoma from a

NOTE Confidence: 0.9961141

01:17:42.340 --> 01:17:43.239 surgical standpoint.

NOTE Confidence: 0.93558174

01:17:44.025 --> 01:17:45.865 And being a plastic surgeon,

NOTE Confidence: 0.93558174

01:17:45.865 --> 01:17:46.604 when someone,

NOTE Confidence: 0.9965123

01:17:46.985 --> 01:17:48.845 including myself, makes a hole,

NOTE Confidence: 0.9965123

01:17:49.064 --> 01:17:50.185 I need to fix it.

NOTE Confidence: 0.9965123

01:17:50.185 --> 01:17:51.325 So that's my job.

NOTE Confidence: 0.95363355

01:17:54.025 --> 01:17:55.485 My name is Carla Becerra.

NOTE Confidence: 0.95363355

01:17:55.545 --> 01:17:57.210 I'm a surgical PA. I

NOTE Confidence: 0.95363355
01:17:57.210 --> 01:17:59.210 work with, doctor Westwick, doctor
NOTE Confidence: 0.95363355
01:17:59.210 --> 01:18:01.450 Lino, and doctor Khan sometimes
NOTE Confidence: 0.95363355
01:18:01.450 --> 01:18:02.110 as well.
NOTE Confidence: 0.99936056
01:18:02.810 --> 01:18:04.170 I've been a surgical PA
NOTE Confidence: 0.99936056
01:18:04.170 --> 01:18:06.090 here at Yale for almost
NOTE Confidence: 0.99936056
01:18:06.090 --> 01:18:07.210 nine years, and I've been
NOTE Confidence: 0.99936056
01:18:07.210 --> 01:18:08.810 in the melanoma field for
NOTE Confidence: 0.99936056
01:18:08.810 --> 01:18:09.310 thirteen.
NOTE Confidence: 0.9607259
01:18:10.695 --> 01:18:11.814 So I work with an
NOTE Confidence: 0.9607259
01:18:11.814 --> 01:18:13.014 incredible team, and I'm very
NOTE Confidence: 0.9607259
01:18:13.014 --> 01:18:14.795 happy to answer questions today.
NOTE Confidence: 0.92020667
01:18:16.054 --> 01:18:17.835 John Levinthal, we met earlier.
NOTE Confidence: 0.92020667
01:18:17.895 --> 01:18:19.094 Nice to see many familiar
NOTE Confidence: 0.92020667
01:18:19.094 --> 01:18:20.155 faces in the crowd.
NOTE Confidence: 0.936395
01:18:21.574 --> 01:18:22.614 I'm Saj Khan. I'm one
NOTE Confidence: 0.936395

01:18:22.614 --> 01:18:24.070 of the surgical oncologists. I'm

NOTE Confidence: 0.936395

01:18:24.070 --> 01:18:25.530 fortunate to be doctor Aluno's

NOTE Confidence: 0.936395

01:18:25.590 --> 01:18:26.090 partner,

NOTE Confidence: 0.9993652

01:18:26.630 --> 01:18:27.670 and I've been at Yale

NOTE Confidence: 0.9993652

01:18:27.670 --> 01:18:29.290 for about thirteen years now.

NOTE Confidence: 0.9555304

01:18:30.950 --> 01:18:32.070 Hi there. My name is

NOTE Confidence: 0.9555304

01:18:32.070 --> 01:18:33.189 David Schonfeld. I'm one of

NOTE Confidence: 0.9555304

01:18:33.189 --> 01:18:34.790 the medical oncologists here. So

NOTE Confidence: 0.9555304

01:18:34.790 --> 01:18:35.830 I I treat people with

NOTE Confidence: 0.9555304

01:18:35.830 --> 01:18:36.854 some of the the systemic

NOTE Confidence: 0.9555304

01:18:36.854 --> 01:18:38.055 therapies and clinical trials you

NOTE Confidence: 0.9555304

01:18:38.055 --> 01:18:38.854 just heard about, and I

NOTE Confidence: 0.9555304

01:18:38.854 --> 01:18:40.295 also see patients for follow-up

NOTE Confidence: 0.9555304

01:18:40.295 --> 01:18:42.135 and surveillance, and happy to

NOTE Confidence: 0.9555304

01:18:42.135 --> 01:18:43.035 take some questions.

NOTE Confidence: 0.99196553

01:18:44.854 --> 01:18:46.295 Thank you. So who's gonna

NOTE Confidence: 0.99196553

01:18:46.295 --> 01:18:47.255 brave it and ask a

NOTE Confidence: 0.99196553

01:18:47.255 --> 01:18:47.755 question?

NOTE Confidence: 0.9996745

01:18:48.215 --> 01:18:48.715 Anybody?

NOTE Confidence: 0.8261963

01:18:51.540 --> 01:18:53.620 Yes. Thank you. Doctor Tran's

NOTE Confidence: 0.8261963

01:18:53.620 --> 01:18:55.560 presentation, which was very interesting,

NOTE Confidence: 0.8778212

01:18:56.900 --> 01:18:58.100 and the the one slide

NOTE Confidence: 0.8778212

01:18:58.100 --> 01:18:59.800 in talking points around

NOTE Confidence: 0.98443604

01:19:00.740 --> 01:19:02.600 the current treatment paradigms,

NOTE Confidence: 0.8004761

01:19:04.554 --> 01:19:05.054 ipionivo,

NOTE Confidence: 0.964974

01:19:05.434 --> 01:19:06.655 is that only a suggested

NOTE Confidence: 0.964974

01:19:06.795 --> 01:19:08.314 course of action for stage

NOTE Confidence: 0.964974

01:19:08.314 --> 01:19:09.854 four and not stage three

NOTE Confidence: 0.85546875

01:19:10.554 --> 01:19:11.534 patients now?

NOTE Confidence: 0.82477

01:19:12.795 --> 01:19:13.594 Okay. I'm gonna let doctor

NOTE Confidence: 0.82477

01:19:13.675 --> 01:19:14.341 I don't want to ask

NOTE Confidence: 0.82477

01:19:14.341 --> 01:19:15.835 you. Take that one. So,
NOTE Confidence: 0.82477

01:19:15.994 --> 01:19:17.514 so ipionivo is one of
NOTE Confidence: 0.82477

01:19:17.514 --> 01:19:18.255 our standard
NOTE Confidence: 0.905703

01:19:18.729 --> 01:19:20.010 go tos. You know, we
NOTE Confidence: 0.905703

01:19:20.010 --> 01:19:21.290 we use it very commonly
NOTE Confidence: 0.905703

01:19:21.290 --> 01:19:22.729 as Doctor. Tran mentioned for
NOTE Confidence: 0.905703

01:19:22.729 --> 01:19:23.869 stage four patients.
NOTE Confidence: 0.9696805

01:19:24.250 --> 01:19:25.929 There's a couple flavors of
NOTE Confidence: 0.9696805

01:19:25.929 --> 01:19:27.689 giving it. We don't it's
NOTE Confidence: 0.9696805

01:19:27.689 --> 01:19:28.810 not the only option. There
NOTE Confidence: 0.9696805

01:19:28.810 --> 01:19:29.710 are other immunotherapies,
NOTE Confidence: 0.9635417

01:19:30.090 --> 01:19:31.550 especially another combo,
NOTE Confidence: 0.88964844

01:19:32.329 --> 01:19:32.989 that that
NOTE Confidence: 0.92331725

01:19:33.305 --> 01:19:34.845 comes with a little less
NOTE Confidence: 0.92331725

01:19:35.064 --> 01:19:36.585 efficacy, but a fewer side
NOTE Confidence: 0.92331725

01:19:36.585 --> 01:19:38.025 effects. So we we weigh

NOTE Confidence: 0.92331725

01:19:38.025 --> 01:19:38.985 always the, you know, the

NOTE Confidence: 0.92331725

01:19:38.985 --> 01:19:40.265 the patient's disease and and

NOTE Confidence: 0.92331725

01:19:40.265 --> 01:19:40.925 the specific,

NOTE Confidence: 0.9468384

01:19:41.305 --> 01:19:42.905 you know, medical history and

NOTE Confidence: 0.9468384

01:19:42.905 --> 01:19:43.905 other factors that go into

NOTE Confidence: 0.9468384

01:19:43.905 --> 01:19:44.585 it. But it is one

NOTE Confidence: 0.9468384

01:19:44.585 --> 01:19:45.465 of the more common one

NOTE Confidence: 0.9468384

01:19:45.465 --> 01:19:46.665 we use for stage four,

NOTE Confidence: 0.9468384

01:19:46.665 --> 01:19:47.625 and we are starting to

NOTE Confidence: 0.9468384

01:19:47.625 --> 01:19:49.650 use variations of it for

NOTE Confidence: 0.9468384

01:19:49.650 --> 01:19:51.170 earlier stage and and what

NOTE Confidence: 0.9468384

01:19:51.170 --> 01:19:52.530 doctor Tran and doctor Alino

NOTE Confidence: 0.9468384

01:19:52.530 --> 01:19:53.969 mentioned for what's called the

NOTE Confidence: 0.9468384

01:19:53.969 --> 01:19:55.810 neoadjuvant paradigm. So patients who

NOTE Confidence: 0.9468384

01:19:55.810 --> 01:19:57.810 need a little therapy before

NOTE Confidence: 0.9468384

01:19:57.810 --> 01:19:58.929 going to surgery, let's say
NOTE Confidence: 0.9468384

01:19:58.929 --> 01:20:00.210 because there's a palpable lymph
NOTE Confidence: 0.9468384

01:20:00.210 --> 01:20:01.330 node and we wanna give
NOTE Confidence: 0.9468384

01:20:01.330 --> 01:20:02.310 them something beforehand,
NOTE Confidence: 0.92768246

01:20:02.965 --> 01:20:04.645 doing a couple cycles of
NOTE Confidence: 0.92768246

01:20:04.645 --> 01:20:05.925 ipi nivo in a in
NOTE Confidence: 0.92768246

01:20:05.925 --> 01:20:07.685 a particular way way of
NOTE Confidence: 0.92768246

01:20:07.685 --> 01:20:09.205 dosing it is is one
NOTE Confidence: 0.92768246

01:20:09.205 --> 01:20:10.245 of the standard things we
NOTE Confidence: 0.92768246

01:20:10.245 --> 01:20:11.445 do now or or consider
NOTE Confidence: 0.92768246

01:20:11.445 --> 01:20:12.805 at least. But can I
NOTE Confidence: 0.92768246

01:20:12.805 --> 01:20:13.925 just add in there was
NOTE Confidence: 0.92768246

01:20:13.925 --> 01:20:15.205 a big trial where they
NOTE Confidence: 0.92768246

01:20:15.205 --> 01:20:17.045 compared they took state they
NOTE Confidence: 0.92768246

01:20:17.045 --> 01:20:18.670 took stage three melanomas out
NOTE Confidence: 0.92768246

01:20:18.670 --> 01:20:20.590 and then gave AP and

NOTE Confidence: 0.92768246

01:20:20.590 --> 01:20:21.790 Nivo, like, the two drugs

NOTE Confidence: 0.92768246

01:20:21.790 --> 01:20:23.310 versus the one drug, and,

NOTE Confidence: 0.92768246

01:20:23.310 --> 01:20:24.510 actually, there was a better

NOTE Confidence: 0.92768246

01:20:24.510 --> 01:20:25.790 outcome with one drug than

NOTE Confidence: 0.92768246

01:20:25.790 --> 01:20:26.530 with two?

NOTE Confidence: 0.9984809

01:20:26.990 --> 01:20:28.350 So it has been studied.

NOTE Confidence: 0.9984809

01:20:28.350 --> 01:20:29.729 It's just not beneficial.

NOTE Confidence: 0.8020766

01:20:31.345 --> 01:20:32.064 Good thing. So, I mean,

NOTE Confidence: 0.8020766

01:20:32.064 --> 01:20:33.025 I I'm a no longer

NOTE Confidence: 0.8020766

01:20:33.025 --> 01:20:34.305 surprised myself. So as a

NOTE Confidence: 0.8020766

01:20:34.305 --> 01:20:35.365 stage three patient,

NOTE Confidence: 0.94917434

01:20:35.825 --> 01:20:36.785 ipi and nivo is no

NOTE Confidence: 0.94917434

01:20:36.785 --> 01:20:38.485 longer a course of recommended

NOTE Confidence: 0.94917434

01:20:38.625 --> 01:20:39.125 action.

NOTE Confidence: 0.95681375

01:20:40.225 --> 01:20:41.985 Subjected. Stage three patients. That's

NOTE Confidence: 0.95681375

01:20:41.985 --> 01:20:43.025 been taken out. If it's
NOTE Confidence: 0.95681375

01:20:43.025 --> 01:20:44.064 already been taken out, yeah,
NOTE Confidence: 0.95681375

01:20:44.064 --> 01:20:45.025 we don't we don't generally
NOTE Confidence: 0.95681375

01:20:45.025 --> 01:20:45.970 use it there. But if
NOTE Confidence: 0.95681375

01:20:45.970 --> 01:20:47.430 it hasn't been taken out?
NOTE Confidence: 0.95681375

01:20:47.729 --> 01:20:49.330 Sometimes. Yeah. Yeah. It is
NOTE Confidence: 0.95681375

01:20:49.330 --> 01:20:50.450 a consideration. Yeah. If it's
NOTE Confidence: 0.95681375

01:20:50.530 --> 01:20:51.250 if if you're a stage
NOTE Confidence: 0.95681375

01:20:51.250 --> 01:20:52.689 three patient and there's some
NOTE Confidence: 0.95681375

01:20:52.689 --> 01:20:54.390 some disease we could feel,
NOTE Confidence: 0.97402954

01:20:55.570 --> 01:20:56.530 you know, it's something we
NOTE Confidence: 0.97402954

01:20:56.530 --> 01:20:57.830 would talk about and consider,
NOTE Confidence: 0.97402954

01:20:57.890 --> 01:20:59.030 yeah, for the right person.
NOTE Confidence: 0.97402954

01:20:59.170 --> 01:20:59.670 Yeah.
NOTE Confidence: 0.9814453

01:21:00.610 --> 01:21:01.110 Yes.
NOTE Confidence: 0.9004413

01:21:02.265 --> 01:21:03.805 Give us a brief definition

NOTE Confidence: 0.9004413
01:21:04.025 --> 01:21:05.725 of adjuvant and neoadjuvant.
NOTE Confidence: 0.9781648
01:21:07.225 --> 01:21:08.905 Okay. I'm gonna give that
NOTE Confidence: 0.9781648
01:21:08.905 --> 01:21:10.505 one to doctor Schonfeld again.
NOTE Confidence: 0.9781648
01:21:10.505 --> 01:21:11.225 Okay. I was gonna I
NOTE Confidence: 0.9781648
01:21:11.225 --> 01:21:11.945 was gonna hand it off
NOTE Confidence: 0.9781648
01:21:11.945 --> 01:21:12.905 to one of the surgeons.
NOTE Confidence: 0.9781648
01:21:12.905 --> 01:21:14.345 So so yeah. So,
NOTE Confidence: 0.94433594
01:21:14.825 --> 01:21:15.325 adjuvant,
NOTE Confidence: 0.916645
01:21:16.110 --> 01:21:18.110 means after a more definitive
NOTE Confidence: 0.916645
01:21:18.110 --> 01:21:19.710 thing, like a surgery typically.
NOTE Confidence: 0.916645
01:21:19.710 --> 01:21:21.489 So adjuvant is after surgery,
NOTE Confidence: 0.95581055
01:21:22.429 --> 01:21:23.070 and then,
NOTE Confidence: 0.9347878
01:21:23.469 --> 01:21:24.670 neoadjuvant, and it can be
NOTE Confidence: 0.9347878
01:21:24.670 --> 01:21:26.370 any therapy. So adjuvant radiation,
NOTE Confidence: 0.9347878
01:21:26.429 --> 01:21:28.270 adjuvant systemic therapy, so an
NOTE Confidence: 0.9347878

01:21:28.270 --> 01:21:29.570 IV drug or a pill,
NOTE Confidence: 0.9347878

01:21:29.595 --> 01:21:31.354 And then neoadjuvant means before
NOTE Confidence: 0.9347878

01:21:31.354 --> 01:21:33.195 that more definitive therapy like
NOTE Confidence: 0.9347878

01:21:33.195 --> 01:21:34.155 a surgery. So that would
NOTE Confidence: 0.9347878

01:21:34.155 --> 01:21:36.475 be do that intervention like
NOTE Confidence: 0.9347878

01:21:36.475 --> 01:21:38.415 the, ipinivo, the immunotherapy
NOTE Confidence: 0.98480517

01:21:38.795 --> 01:21:40.075 first, and then go for
NOTE Confidence: 0.98480517

01:21:40.075 --> 01:21:41.515 the surgery. So it's either
NOTE Confidence: 0.98480517

01:21:41.515 --> 01:21:43.035 before or after the more
NOTE Confidence: 0.98480517

01:21:43.035 --> 01:21:44.635 definitive option, which is usually
NOTE Confidence: 0.98480517

01:21:44.635 --> 01:21:45.135 surgery.
NOTE Confidence: 0.9655386

01:21:46.130 --> 01:21:47.810 That's great feedback. Next time,
NOTE Confidence: 0.9655386

01:21:47.810 --> 01:21:49.590 we'll start with defining that.
NOTE Confidence: 0.9655386

01:21:49.810 --> 01:21:51.270 Okay. Thank you.
NOTE Confidence: 0.9436188

01:21:52.849 --> 01:21:54.770 Any other questions? I don't
NOTE Confidence: 0.9436188

01:21:54.770 --> 01:21:55.889 understand. What would be the

NOTE Confidence: 0.9436188
01:21:55.889 --> 01:21:57.250 surgery for a stage three
NOTE Confidence: 0.9436188
01:21:57.250 --> 01:21:57.750 patient
NOTE Confidence: 0.9998373
01:21:58.195 --> 01:21:58.935 with melanoma?
NOTE Confidence: 0.9995117
01:21:59.715 --> 01:22:00.215 Right.
NOTE Confidence: 0.9782552
01:22:00.595 --> 01:22:01.795 So so are you talking
NOTE Confidence: 0.9782552
01:22:01.795 --> 01:22:03.075 about specifically if they get
NOTE Confidence: 0.9782552
01:22:03.075 --> 01:22:05.015 what that that treatment beforehand
NOTE Confidence: 0.8826059
01:22:05.475 --> 01:22:06.354 and then they are you
NOTE Confidence: 0.8826059
01:22:06.354 --> 01:22:07.155 know, if you get the
NOTE Confidence: 0.8826059
01:22:07.155 --> 01:22:08.215 ipi nivo beforehand?
NOTE Confidence: 0.94681805
01:22:08.675 --> 01:22:09.955 If you're a stage three
NOTE Confidence: 0.94681805
01:22:09.955 --> 01:22:10.455 patient,
NOTE Confidence: 0.99476844
01:22:10.755 --> 01:22:11.795 what what would be a
NOTE Confidence: 0.99476844
01:22:11.795 --> 01:22:13.439 definition of a type of
NOTE Confidence: 0.99476844
01:22:13.439 --> 01:22:14.820 surgery that would be
NOTE Confidence: 0.9975586

01:22:15.200 --> 01:22:15.700 recommended?

NOTE Confidence: 0.9356384

01:22:16.160 --> 01:22:17.200 Maybe I'll hand that off

NOTE Confidence: 0.9356384

01:22:17.200 --> 01:22:18.479 to doctor Khan or doctor

NOTE Confidence: 0.9356384

01:22:18.479 --> 01:22:19.280 Westlake to

NOTE Confidence: 0.9960124

01:22:20.000 --> 01:22:21.120 And to be clear, sir,

NOTE Confidence: 0.9960124

01:22:21.120 --> 01:22:22.800 you're asking about lymph node

NOTE Confidence: 0.9960124

01:22:22.800 --> 01:22:23.860 positive disease.

NOTE Confidence: 0.99658203

01:22:24.400 --> 01:22:24.880 So,

NOTE Confidence: 0.9534356

01:22:25.200 --> 01:22:26.479 the surgery would generally be,

NOTE Confidence: 0.9534356

01:22:26.479 --> 01:22:27.760 you know, removing the primary

NOTE Confidence: 0.9534356

01:22:27.760 --> 01:22:29.025 tumor where it started from.

NOTE Confidence: 0.9534356

01:22:29.025 --> 01:22:30.465 So wide margin resection. So

NOTE Confidence: 0.9534356

01:22:30.465 --> 01:22:32.625 one centimeter for some tumors,

NOTE Confidence: 0.9534356

01:22:32.625 --> 01:22:34.225 two centimeters for additional tumors

NOTE Confidence: 0.9534356

01:22:34.225 --> 01:22:35.505 depending on the depth. And

NOTE Confidence: 0.9534356

01:22:35.505 --> 01:22:36.965 then, formal lymphadenectomy

NOTE Confidence: 0.9812012
01:22:37.425 --> 01:22:38.805 is what we'll often do,
NOTE Confidence: 0.9899292
01:22:39.425 --> 01:22:41.045 you know, particularly for axillary
NOTE Confidence: 0.9899292
01:22:41.104 --> 01:22:42.085 lymph node disease.
NOTE Confidence: 0.9396159
01:22:42.960 --> 01:22:43.860 You know, for,
NOTE Confidence: 0.9212087
01:22:44.320 --> 01:22:45.840 groin disease and pelvic diseases,
NOTE Confidence: 0.9212087
01:22:45.840 --> 01:22:46.880 things have changed and shifted
NOTE Confidence: 0.9212087
01:22:46.880 --> 01:22:47.840 a little bit, and there's
NOTE Confidence: 0.9212087
01:22:47.840 --> 01:22:49.200 less surgery that's being performed,
NOTE Confidence: 0.9212087
01:22:49.200 --> 01:22:50.979 but, an at lymphadenectomy.
NOTE Confidence: 0.9142795
01:22:52.000 --> 01:22:53.760 Which is sorry. Removing the
NOTE Confidence: 0.9142795
01:22:53.760 --> 01:22:55.040 lymph removing the lymph nodes
NOTE Confidence: 0.9142795
01:22:55.040 --> 01:22:56.239 from that basin. All of
NOTE Confidence: 0.9142795
01:22:56.239 --> 01:22:57.060 the lymph nodes.
NOTE Confidence: 0.9646921
01:22:58.045 --> 01:22:59.564 Yeah. We're probably becoming I'd
NOTE Confidence: 0.9646921
01:22:59.564 --> 01:23:00.445 love to see what doctor
NOTE Confidence: 0.9646921

01:23:00.445 --> 01:23:01.804 Alina says, but we're probably

NOTE Confidence: 0.9646921

01:23:01.804 --> 01:23:03.085 doing a little bit there

NOTE Confidence: 0.9646921

01:23:03.085 --> 01:23:03.885 was a time where we

NOTE Confidence: 0.9646921

01:23:03.965 --> 01:23:05.644 so there's different three levels

NOTE Confidence: 0.9646921

01:23:05.644 --> 01:23:06.625 of lymph nodes,

NOTE Confidence: 0.9773615

01:23:08.284 --> 01:23:09.744 level one, two, and three,

NOTE Confidence: 0.9773615

01:23:09.885 --> 01:23:11.744 and it's it's pretty aggressive.

NOTE Confidence: 0.9773615

01:23:11.804 --> 01:23:12.125 But,

NOTE Confidence: 0.9740339

01:23:12.700 --> 01:23:14.220 with immune therapy, we're probably

NOTE Confidence: 0.9740339

01:23:14.220 --> 01:23:15.820 not necessarily removing level three

NOTE Confidence: 0.9740339

01:23:15.820 --> 01:23:17.280 lymph nodes anymore. So,

NOTE Confidence: 0.8575195

01:23:18.060 --> 01:23:19.420 maybe let doctor Alino answer

NOTE Confidence: 0.8575195

01:23:19.420 --> 01:23:21.280 that. Yeah. So, you know,

NOTE Confidence: 0.99083114

01:23:21.660 --> 01:23:22.540 you can be in the

NOTE Confidence: 0.99083114

01:23:22.540 --> 01:23:24.240 same stage three bucket,

NOTE Confidence: 0.99495447

01:23:24.875 --> 01:23:26.475 and I can take out

NOTE Confidence: 0.99495447
01:23:26.475 --> 01:23:27.215 your melanoma.
NOTE Confidence: 0.9744195
01:23:27.595 --> 01:23:28.875 We do that sentinel node.
NOTE Confidence: 0.9744195
01:23:28.875 --> 01:23:30.095 We only find microscopic
NOTE Confidence: 0.97080654
01:23:30.475 --> 01:23:31.835 disease, and we learned that
NOTE Confidence: 0.97080654
01:23:31.835 --> 01:23:33.195 by taking out more lymph
NOTE Confidence: 0.97080654
01:23:33.195 --> 01:23:34.715 nodes, all we do is
NOTE Confidence: 0.97080654
01:23:34.715 --> 01:23:36.395 increase risk of swelling, and
NOTE Confidence: 0.97080654
01:23:36.395 --> 01:23:37.695 we actually don't make anybody
NOTE Confidence: 0.97080654
01:23:37.915 --> 01:23:39.540 live any longer. So in
NOTE Confidence: 0.97080654
01:23:39.540 --> 01:23:41.139 people who are still stage
NOTE Confidence: 0.97080654
01:23:41.139 --> 01:23:42.840 three, where you were diagnosed
NOTE Confidence: 0.97080654
01:23:42.900 --> 01:23:44.179 but it was microscopic, I
NOTE Confidence: 0.97080654
01:23:44.179 --> 01:23:45.059 told you I couldn't see
NOTE Confidence: 0.97080654
01:23:45.059 --> 01:23:46.099 it. The pathologist would have
NOTE Confidence: 0.97080654
01:23:46.099 --> 01:23:46.659 to tell us in a
NOTE Confidence: 0.97080654

01:23:46.659 --> 01:23:47.540 couple of days. You guys
NOTE Confidence: 0.97080654

01:23:47.540 --> 01:23:49.079 have heard my spiel. Okay?
NOTE Confidence: 0.9994575

01:23:49.699 --> 01:23:51.780 That's different than someone who
NOTE Confidence: 0.9994575

01:23:51.780 --> 01:23:53.239 comes into the clinic
NOTE Confidence: 0.9956868

01:23:53.780 --> 01:23:54.900 the first time that we
NOTE Confidence: 0.9956868

01:23:54.900 --> 01:23:55.275 meet
NOTE Confidence: 0.8543701

01:23:55.755 --> 01:23:56.975 them and we say,
NOTE Confidence: 0.9780988

01:23:57.995 --> 01:23:59.755 you have another spot, not
NOTE Confidence: 0.9780988

01:23:59.755 --> 01:24:01.435 just where the melanoma was.
NOTE Confidence: 0.9780988

01:24:01.435 --> 01:24:03.195 We feel something or something
NOTE Confidence: 0.9780988

01:24:03.195 --> 01:24:04.875 causes us to say, I'm
NOTE Confidence: 0.9780988

01:24:04.875 --> 01:24:06.314 really worried about your melanoma.
NOTE Confidence: 0.9780988

01:24:06.314 --> 01:24:07.695 Let's get a scan now.
NOTE Confidence: 0.9780988

01:24:07.835 --> 01:24:08.895 That's not microscopic
NOTE Confidence: 0.9727376

01:24:09.420 --> 01:24:10.780 disease anymore, and that's when
NOTE Confidence: 0.9727376

01:24:10.780 --> 01:24:12.939 we're talking about giving people

NOTE Confidence: 0.9727376
01:24:12.939 --> 01:24:15.180 some either an upfront therapy
NOTE Confidence: 0.9727376
01:24:15.180 --> 01:24:16.220 with a single or a
NOTE Confidence: 0.9727376
01:24:16.220 --> 01:24:17.820 double agent. Now that's very
NOTE Confidence: 0.9727376
01:24:17.820 --> 01:24:18.880 different than
NOTE Confidence: 0.86848956
01:24:19.340 --> 01:24:20.240 you come in.
NOTE Confidence: 0.9983724
01:24:20.700 --> 01:24:22.479 It's microscopic disease.
NOTE Confidence: 0.99986047
01:24:22.865 --> 01:24:23.985 We don't know if you'll
NOTE Confidence: 0.99986047
01:24:23.985 --> 01:24:24.645 be only
NOTE Confidence: 0.99921876
01:24:24.945 --> 01:24:26.564 the one in five person
NOTE Confidence: 0.9666941
01:24:27.104 --> 01:24:28.385 where you'll have more disease
NOTE Confidence: 0.9666941
01:24:28.385 --> 01:24:29.185 in the lymph nodes. That's
NOTE Confidence: 0.9666941
01:24:29.185 --> 01:24:30.064 why we don't take them
NOTE Confidence: 0.9666941
01:24:30.064 --> 01:24:31.505 all out. And that's when
NOTE Confidence: 0.9666941
01:24:31.505 --> 01:24:32.625 you meet with one of
NOTE Confidence: 0.9666941
01:24:32.625 --> 01:24:33.985 the colleagues, and they say,
NOTE Confidence: 0.9666941

01:24:33.985 --> 01:24:35.650 let's do the testing. You
NOTE Confidence: 0.9666941

01:24:35.650 --> 01:24:36.850 know? We don't have ev
NOTE Confidence: 0.9666941

01:24:36.930 --> 01:24:38.210 any evidence that there's any
NOTE Confidence: 0.9666941

01:24:38.210 --> 01:24:39.250 disease we can see on
NOTE Confidence: 0.9666941

01:24:39.250 --> 01:24:40.450 scans when we get the
NOTE Confidence: 0.9666941

01:24:40.450 --> 01:24:41.890 CAT scans or PET scans
NOTE Confidence: 0.9666941

01:24:41.890 --> 01:24:43.330 or the MRIs, and then
NOTE Confidence: 0.9666941

01:24:43.330 --> 01:24:44.530 we're we're trying to make
NOTE Confidence: 0.9666941

01:24:44.530 --> 01:24:45.670 that judgment.
NOTE Confidence: 0.99036705

01:24:46.290 --> 01:24:47.295 Do you need more? Are
NOTE Confidence: 0.99036705

01:24:47.455 --> 01:24:48.015 you gonna be the ones
NOTE Confidence: 0.99036705

01:24:48.015 --> 01:24:48.735 who are gonna be okay?
NOTE Confidence: 0.99036705

01:24:48.735 --> 01:24:49.614 And, again, that's one of
NOTE Confidence: 0.99036705

01:24:49.614 --> 01:24:50.895 the things that's really important
NOTE Confidence: 0.99036705

01:24:50.895 --> 01:24:51.935 that we all struggle with.
NOTE Confidence: 0.99036705

01:24:51.935 --> 01:24:52.655 Right? Because if we knew

NOTE Confidence: 0.99036705
01:24:52.655 --> 01:24:54.094 your melanoma was gonna come
NOTE Confidence: 0.99036705
01:24:54.094 --> 01:24:55.535 back, we'd have a different
NOTE Confidence: 0.99036705
01:24:55.535 --> 01:24:56.035 conversation.
NOTE Confidence: 0.943573
01:24:56.495 --> 01:24:57.295 If we knew you're gonna
NOTE Confidence: 0.943573
01:24:57.295 --> 01:24:58.035 have a toxicity,
NOTE Confidence: 0.9986478
01:24:58.574 --> 01:25:00.195 we'd have a different conversation.
NOTE Confidence: 0.9986478
01:25:00.415 --> 01:25:01.135 If we knew we could
NOTE Confidence: 0.9986478
01:25:01.135 --> 01:25:02.275 wait three years,
NOTE Confidence: 0.9725363
01:25:03.110 --> 01:25:04.309 then your melanoma would come
NOTE Confidence: 0.9725363
01:25:04.309 --> 01:25:05.429 back. You'd have three great
NOTE Confidence: 0.9725363
01:25:05.429 --> 01:25:06.949 years. You'd come and have
NOTE Confidence: 0.9725363
01:25:06.949 --> 01:25:08.309 to see us, but you
NOTE Confidence: 0.9725363
01:25:08.309 --> 01:25:09.110 know, and then it would
NOTE Confidence: 0.9725363
01:25:09.110 --> 01:25:09.989 come back, but you knew
NOTE Confidence: 0.9725363
01:25:09.989 --> 01:25:10.869 you had three good years
NOTE Confidence: 0.9725363

01:25:10.869 --> 01:25:11.670 where you didn't have to
NOTE Confidence: 0.9725363

01:25:11.670 --> 01:25:12.630 be exposed to any of
NOTE Confidence: 0.9725363

01:25:12.630 --> 01:25:14.070 the treatments. When every single
NOTE Confidence: 0.9725363

01:25:14.070 --> 01:25:14.949 one of you guys is
NOTE Confidence: 0.9725363

01:25:14.949 --> 01:25:15.929 coming in,
NOTE Confidence: 0.9677109

01:25:16.825 --> 01:25:18.104 and I encourage, you know,
NOTE Confidence: 0.9677109

01:25:18.104 --> 01:25:19.305 if if your doctors aren't
NOTE Confidence: 0.9677109

01:25:19.305 --> 01:25:20.505 speaking to you like that,
NOTE Confidence: 0.9677109

01:25:20.505 --> 01:25:21.965 that's when we're talking about.
NOTE Confidence: 0.9677109

01:25:22.104 --> 01:25:23.385 What are the pluses? What
NOTE Confidence: 0.9677109

01:25:23.385 --> 01:25:24.205 are the minuses?
NOTE Confidence: 0.9748535

01:25:24.985 --> 01:25:26.925 What are our theoretical risks?
NOTE Confidence: 0.9748535

01:25:26.985 --> 01:25:28.845 What are the fixed risks?
NOTE Confidence: 0.9748535

01:25:28.985 --> 01:25:30.445 And putting that all together.
NOTE Confidence: 0.9986683

01:25:30.820 --> 01:25:31.939 Right, that's what takes us
NOTE Confidence: 0.9986683

01:25:31.939 --> 01:25:33.160 an hour in the clinic.

NOTE Confidence: 0.9986683
01:25:33.220 --> 01:25:33.720 Right?
NOTE Confidence: 0.8374634
01:25:35.460 --> 01:25:36.600 That answer your question?
NOTE Confidence: 0.859144
01:25:36.900 --> 01:25:38.500 Uh-uh. Not really. Yeah. Didn't
NOTE Confidence: 0.859144
01:25:38.500 --> 01:25:40.580 it? Is a problem. Confused.
NOTE Confidence: 0.859144
01:25:40.580 --> 01:25:41.380 I mean, if I have
NOTE Confidence: 0.859144
01:25:41.460 --> 01:25:42.420 if it if if the
NOTE Confidence: 0.859144
01:25:42.420 --> 01:25:44.280 melanomas reach my lymph nodes,
NOTE Confidence: 0.859144
01:25:44.564 --> 01:25:45.525 is the course of action
NOTE Confidence: 0.859144
01:25:45.525 --> 01:25:46.245 to take out all my
NOTE Confidence: 0.859144
01:25:46.245 --> 01:25:47.604 lymph nodes or to put
NOTE Confidence: 0.859144
01:25:47.604 --> 01:25:49.064 me on ipi or nevo?
NOTE Confidence: 0.90369594
01:25:50.324 --> 01:25:51.604 So should I I mean,
NOTE Confidence: 0.90369594
01:25:51.604 --> 01:25:52.645 to try to answer that.
NOTE Confidence: 0.90369594
01:25:52.645 --> 01:25:53.945 Okay. Yeah. So
NOTE Confidence: 0.9930827
01:25:54.245 --> 01:25:56.165 it first of all, things
NOTE Confidence: 0.9930827

01:25:56.165 --> 01:25:56.665 change
NOTE Confidence: 0.97969407

01:25:57.100 --> 01:25:58.460 over the period of our
NOTE Confidence: 0.97969407

01:25:58.460 --> 01:25:59.500 careers or the what the
NOTE Confidence: 0.97969407

01:25:59.500 --> 01:26:00.380 years that we've been doing
NOTE Confidence: 0.97969407

01:26:00.380 --> 01:26:01.260 that and more and more
NOTE Confidence: 0.97969407

01:26:01.260 --> 01:26:02.699 data become available. So what
NOTE Confidence: 0.97969407

01:26:02.699 --> 01:26:03.660 we did ten years ago
NOTE Confidence: 0.97969407

01:26:03.660 --> 01:26:04.460 is not what we did
NOTE Confidence: 0.97969407

01:26:04.460 --> 01:26:05.340 five years ago. What we
NOTE Confidence: 0.97969407

01:26:05.340 --> 01:26:06.300 do now is not exactly
NOTE Confidence: 0.97969407

01:26:06.300 --> 01:26:07.260 what we did five years
NOTE Confidence: 0.97969407

01:26:07.260 --> 01:26:08.000 ago either.
NOTE Confidence: 0.9849632

01:26:09.189 --> 01:26:10.035 So, you know, we have
NOTE Confidence: 0.9849632

01:26:10.035 --> 01:26:10.835 to take all of that
NOTE Confidence: 0.9849632

01:26:10.835 --> 01:26:12.755 into account. Now if the
NOTE Confidence: 0.9849632

01:26:12.755 --> 01:26:14.995 melon if the if there's

NOTE Confidence: 0.9849632
01:26:14.995 --> 01:26:15.975 nothing palpable,
NOTE Confidence: 0.89607745
01:26:16.675 --> 01:26:17.955 as doctor Lino says, if
NOTE Confidence: 0.89607745
01:26:17.955 --> 01:26:19.175 if this is microscope
NOTE Confidence: 0.95381045
01:26:31.670 --> 01:26:32.950 you start weighing the risks
NOTE Confidence: 0.95381045
01:26:32.950 --> 01:26:34.229 and the benefits. There is
NOTE Confidence: 0.95381045
01:26:34.229 --> 01:26:35.510 a ten percent or twenty
NOTE Confidence: 0.95381045
01:26:35.510 --> 01:26:36.710 percent depending on how big
NOTE Confidence: 0.95381045
01:26:36.710 --> 01:26:37.590 a person is and how
NOTE Confidence: 0.95381045
01:26:37.590 --> 01:26:38.090 many,
NOTE Confidence: 0.9749298
01:26:38.415 --> 01:26:40.255 and where where exactly the
NOTE Confidence: 0.9749298
01:26:40.255 --> 01:26:41.695 the lymph node basin is.
NOTE Confidence: 0.9749298
01:26:41.695 --> 01:26:42.655 But there's a risk for
NOTE Confidence: 0.9749298
01:26:42.655 --> 01:26:43.155 lymphedema
NOTE Confidence: 0.9941406
01:26:43.775 --> 01:26:44.514 long term.
NOTE Confidence: 0.98457366
01:26:45.295 --> 01:26:46.735 We always say, well, if
NOTE Confidence: 0.98457366

01:26:46.735 --> 01:26:47.934 we were going if the
NOTE Confidence: 0.98457366

01:26:47.934 --> 01:26:49.295 risk is high enough to
NOTE Confidence: 0.98457366

01:26:49.295 --> 01:26:51.479 justify giving adjuvant therapy that
NOTE Confidence: 0.98457366

01:26:51.479 --> 01:26:52.760 we just discussed, if we're
NOTE Confidence: 0.98457366

01:26:52.760 --> 01:26:54.300 going to give adjuvant therapy
NOTE Confidence: 0.98457366

01:26:54.360 --> 01:26:56.120 anyway, doing the surgery doesn't
NOTE Confidence: 0.98457366

01:26:56.120 --> 01:26:57.640 really add anything. So we
NOTE Confidence: 0.98457366

01:26:57.640 --> 01:26:58.600 may not go in and
NOTE Confidence: 0.98457366

01:26:58.600 --> 01:26:59.720 do the entire lymph node
NOTE Confidence: 0.98457366

01:26:59.720 --> 01:27:01.320 dissection. If we say we're
NOTE Confidence: 0.98457366

01:27:01.320 --> 01:27:02.680 not going in there to
NOTE Confidence: 0.98457366

01:27:02.680 --> 01:27:04.680 do adjuvant therapy for any
NOTE Confidence: 0.98457366

01:27:04.680 --> 01:27:06.875 reason, someone's got somebody's got
NOTE Confidence: 0.98457366

01:27:06.875 --> 01:27:08.314 an underlying disease, they we
NOTE Confidence: 0.98457366

01:27:08.314 --> 01:27:09.755 don't feel they can or
NOTE Confidence: 0.98457366

01:27:09.755 --> 01:27:10.975 should handle the immunotherapy,

NOTE Confidence: 0.9974908
01:27:11.755 --> 01:27:13.295 then maybe we would consider
NOTE Confidence: 0.9974908
01:27:13.354 --> 01:27:15.035 doing the nodal dissection. But
NOTE Confidence: 0.9974908
01:27:15.035 --> 01:27:15.995 what we know from at
NOTE Confidence: 0.9974908
01:27:15.995 --> 01:27:17.195 least three or maybe four
NOTE Confidence: 0.9974908
01:27:17.195 --> 01:27:18.475 surgical trials, correct me if
NOTE Confidence: 0.9974908
01:27:18.475 --> 01:27:20.310 I'm wrong, that in microscopic
NOTE Confidence: 0.96694154
01:27:20.689 --> 01:27:22.210 disease, just finding it in
NOTE Confidence: 0.96694154
01:27:22.210 --> 01:27:23.570 the central node and not
NOTE Confidence: 0.96694154
01:27:23.570 --> 01:27:25.090 doing a full nodal dissection,
NOTE Confidence: 0.96694154
01:27:25.090 --> 01:27:26.370 there's no difference in long
NOTE Confidence: 0.96694154
01:27:26.370 --> 01:27:28.790 term survival compared with monitoring
NOTE Confidence: 0.96694154
01:27:28.850 --> 01:27:29.969 it and if it does
NOTE Confidence: 0.96694154
01:27:29.969 --> 01:27:31.170 come back taking it out
NOTE Confidence: 0.96694154
01:27:31.170 --> 01:27:31.670 then.
NOTE Confidence: 1
01:27:32.265 --> 01:27:32.765 So
NOTE Confidence: 0.9816252

01:27:33.225 --> 01:27:34.824 early early lymph node dissection
NOTE Confidence: 0.9816252

01:27:34.985 --> 01:27:36.745 complete lymph node dissection versus
NOTE Confidence: 0.9816252

01:27:36.745 --> 01:27:38.425 late complete lymph node dissection
NOTE Confidence: 0.9816252

01:27:38.425 --> 01:27:39.885 does not impact survival.
NOTE Confidence: 0.9627623

01:27:40.185 --> 01:27:41.625 And particularly, if we're gonna
NOTE Confidence: 0.9627623

01:27:41.625 --> 01:27:43.064 be giving adjuvant therapy because
NOTE Confidence: 0.9627623

01:27:43.064 --> 01:27:44.265 then we're interfering with any
NOTE Confidence: 0.9627623

01:27:44.265 --> 01:27:45.625 potential cells that are there.
NOTE Confidence: 0.9627623

01:27:45.625 --> 01:27:46.505 Yeah. And if it's not
NOTE Confidence: 0.9627623

01:27:46.505 --> 01:27:47.784 microscopic I mean, I guess
NOTE Confidence: 0.9627623

01:27:47.784 --> 01:27:48.960 it sounds like the evolution
NOTE Confidence: 0.9627623

01:27:48.960 --> 01:27:50.160 is ipi and nivo is
NOTE Confidence: 0.9627623

01:27:50.160 --> 01:27:51.540 not a preferred path anymore.
NOTE Confidence: 0.9539681

01:27:53.360 --> 01:27:54.320 Ipi and nivo, we give
NOTE Confidence: 0.9539681

01:27:54.400 --> 01:27:55.920 if it's not microscopic and
NOTE Confidence: 0.9539681

01:27:55.920 --> 01:27:57.120 we can feel it Yep.

NOTE Confidence: 0.9539681
01:27:57.280 --> 01:27:58.240 And we don't wanna do
NOTE Confidence: 0.9539681
01:27:58.240 --> 01:27:59.200 a big surgery, we'll say,
NOTE Confidence: 0.9539681
01:27:59.200 --> 01:27:59.920 let's give a couple of
NOTE Confidence: 0.9539681
01:27:59.920 --> 01:28:00.960 cycles of ipi and nivo.
NOTE Confidence: 0.9539681
01:28:00.960 --> 01:28:02.000 No. That actually is what
NOTE Confidence: 0.9539681
01:28:02.000 --> 01:28:02.880 we've been doing in the
NOTE Confidence: 0.9539681
01:28:02.880 --> 01:28:04.215 last year. Okay. For stage
NOTE Confidence: 0.9539681
01:28:04.215 --> 01:28:05.814 three. For for big stage
NOTE Confidence: 0.9539681
01:28:05.814 --> 01:28:07.255 three, for bulky stage three
NOTE Confidence: 0.9539681
01:28:07.255 --> 01:28:09.015 that we can clearly feel
NOTE Confidence: 0.9539681
01:28:09.015 --> 01:28:10.295 and very high risk and
NOTE Confidence: 0.9539681
01:28:10.295 --> 01:28:12.395 a robust a robust patient.
NOTE Confidence: 0.99391085
01:28:12.854 --> 01:28:13.975 But we weren't doing that
NOTE Confidence: 0.99391085
01:28:13.975 --> 01:28:15.255 two or three years ago.
NOTE Confidence: 0.99391085
01:28:15.255 --> 01:28:16.795 That's a more recent development,
NOTE Confidence: 0.99391085

01:28:16.854 --> 01:28:17.595 the ipinivo.
NOTE Confidence: 0.97446406

01:28:18.570 --> 01:28:19.530 Taking it out and then
NOTE Confidence: 0.97446406

01:28:19.530 --> 01:28:21.050 doing epinevo, we don't do
NOTE Confidence: 0.97446406

01:28:21.050 --> 01:28:22.490 anymore. We tried, and it
NOTE Confidence: 0.97446406

01:28:22.490 --> 01:28:24.250 didn't didn't it didn't help.
NOTE Confidence: 0.97446406

01:28:24.250 --> 01:28:24.750 Yeah.
NOTE Confidence: 0.9324722

01:28:25.930 --> 01:28:27.210 Is that answer right now?
NOTE Confidence: 0.9324722

01:28:27.210 --> 01:28:28.910 That's a long answer. Okay.
NOTE Confidence: 0.9324722

01:28:29.130 --> 01:28:30.090 I'm happy to talk to
NOTE Confidence: 0.9324722

01:28:30.090 --> 01:28:31.290 you afterwards if you're like.
NOTE Confidence: 0.9324722

01:28:31.290 --> 01:28:33.244 Yeah. Go ahead. Yes. We
NOTE Confidence: 0.9324722

01:28:33.244 --> 01:28:33.804 have a question at the
NOTE Confidence: 0.9324722

01:28:33.804 --> 01:28:34.625 back there.
NOTE Confidence: 0.8604431

01:28:36.925 --> 01:28:38.445 Genius. And over the course
NOTE Confidence: 0.8604431

01:28:38.445 --> 01:28:39.264 of that period,
NOTE Confidence: 0.968639

01:28:39.564 --> 01:28:41.244 the the the environment has

NOTE Confidence: 0.968639
01:28:41.244 --> 01:28:42.764 really changed. Just watching this
NOTE Confidence: 0.968639
01:28:42.764 --> 01:28:43.264 presentation
NOTE Confidence: 0.90799385
01:28:43.564 --> 01:28:45.244 was really amazing how much
NOTE Confidence: 0.90799385
01:28:45.244 --> 01:28:45.905 is happening.
NOTE Confidence: 0.9105089
01:28:47.080 --> 01:28:48.760 And my question as someone
NOTE Confidence: 0.9105089
01:28:48.760 --> 01:28:50.140 who's not in the medical
NOTE Confidence: 0.9105089
01:28:50.199 --> 01:28:51.800 scientific community, I read a
NOTE Confidence: 0.9105089
01:28:51.800 --> 01:28:52.699 lot of headlines.
NOTE Confidence: 0.9892578
01:28:53.719 --> 01:28:54.620 You know, the
NOTE Confidence: 0.95214844
01:28:55.400 --> 01:28:56.300 the current administration
NOTE Confidence: 0.9557129
01:28:56.920 --> 01:28:58.360 nationally that we're under is
NOTE Confidence: 0.9557129
01:28:58.360 --> 01:29:00.380 really cutting back funding in
NOTE Confidence: 0.9451904
01:29:00.835 --> 01:29:02.675 in research and science and
NOTE Confidence: 0.9451904
01:29:02.675 --> 01:29:04.135 cancer research specifically.
NOTE Confidence: 0.9911412
01:29:05.235 --> 01:29:07.335 Listening to Brandy talk about
NOTE Confidence: 0.9911412

01:29:07.395 --> 01:29:08.375 how amazing
NOTE Confidence: 0.96207684

01:29:08.994 --> 01:29:10.195 the hope and the the
NOTE Confidence: 0.96207684

01:29:10.195 --> 01:29:11.954 feeling of optimism she got
NOTE Confidence: 0.96207684

01:29:11.954 --> 01:29:13.574 coming here and being treated,
NOTE Confidence: 0.96207684

01:29:13.795 --> 01:29:14.934 I'm really curious.
NOTE Confidence: 0.854682

01:29:15.395 --> 01:29:16.295 Thank you, Brandy.
NOTE Confidence: 0.9871863

01:29:16.810 --> 01:29:19.210 I'm really curious how what's
NOTE Confidence: 0.9871863

01:29:19.210 --> 01:29:21.130 happening in the political scene
NOTE Confidence: 0.9871863

01:29:21.130 --> 01:29:22.830 impacts the way you approach
NOTE Confidence: 0.9871863

01:29:22.969 --> 01:29:24.570 your job and and the
NOTE Confidence: 0.9871863

01:29:24.570 --> 01:29:26.170 research that's being done here,
NOTE Confidence: 0.9871863

01:29:26.170 --> 01:29:27.370 and if you're looking ahead
NOTE Confidence: 0.9871863

01:29:27.370 --> 01:29:28.429 and feeling hopeful.
NOTE Confidence: 0.9870257

01:29:29.935 --> 01:29:31.215 Yeah. So thank you for
NOTE Confidence: 0.9870257

01:29:31.215 --> 01:29:32.415 asking that question. That's a
NOTE Confidence: 0.9870257

01:29:32.415 --> 01:29:33.775 really charged one. And,

NOTE Confidence: 0.978007
01:29:34.735 --> 01:29:36.175 if okay with everyone, I'm
NOTE Confidence: 0.978007
01:29:36.175 --> 01:29:37.375 just gonna take a stab
NOTE Confidence: 0.978007
01:29:37.375 --> 01:29:38.735 at answering it because you
NOTE Confidence: 0.978007
01:29:38.735 --> 01:29:40.175 may you may get different
NOTE Confidence: 0.978007
01:29:40.175 --> 01:29:41.955 answers from different people.
NOTE Confidence: 0.9974518
01:29:42.380 --> 01:29:43.740 We are worried. There's no
NOTE Confidence: 0.9974518
01:29:43.740 --> 01:29:45.020 question that we're worried about
NOTE Confidence: 0.9974518
01:29:45.020 --> 01:29:46.620 where the funding environment is
NOTE Confidence: 0.9974518
01:29:46.620 --> 01:29:47.120 going.
NOTE Confidence: 0.9987793
01:29:48.300 --> 01:29:49.680 We have had grants
NOTE Confidence: 0.9368107
01:29:50.060 --> 01:29:51.260 that were reviewed at the
NOTE Confidence: 0.9368107
01:29:51.260 --> 01:29:53.100 NIH that got top scores
NOTE Confidence: 0.9368107
01:29:53.100 --> 01:29:54.720 and and were not selected
NOTE Confidence: 0.9368107
01:29:54.780 --> 01:29:55.439 for funding
NOTE Confidence: 0.9768229
01:29:55.845 --> 01:29:57.045 in the last year for
NOTE Confidence: 0.9768229

01:29:57.045 --> 01:29:58.965 reasons that we we don't
NOTE Confidence: 0.9768229

01:29:58.965 --> 01:30:00.005 re they actually don't tell
NOTE Confidence: 0.9768229

01:30:00.005 --> 01:30:01.205 us, but things that wouldn't
NOTE Confidence: 0.9768229

01:30:01.205 --> 01:30:02.325 have happened two years ago
NOTE Confidence: 0.9768229

01:30:02.325 --> 01:30:04.265 or three years ago. However,
NOTE Confidence: 0.99269795

01:30:04.805 --> 01:30:05.765 with all of that, we
NOTE Confidence: 0.99269795

01:30:05.765 --> 01:30:07.205 have a really strong group
NOTE Confidence: 0.99269795

01:30:07.205 --> 01:30:07.705 here.
NOTE Confidence: 0.99609375

01:30:08.165 --> 01:30:08.665 And
NOTE Confidence: 0.9673104

01:30:10.090 --> 01:30:11.850 collectively, we actually still have
NOTE Confidence: 0.9673104

01:30:11.850 --> 01:30:13.229 a fair amount of funding,
NOTE Confidence: 0.9673104

01:30:13.450 --> 01:30:14.410 and we're very proud of
NOTE Confidence: 0.9673104

01:30:14.410 --> 01:30:15.950 that and grateful for that.
NOTE Confidence: 0.9673104

01:30:16.090 --> 01:30:17.130 Some of the funding comes
NOTE Confidence: 0.9673104

01:30:17.130 --> 01:30:18.570 from foundations like the MRA.
NOTE Confidence: 0.9673104

01:30:18.570 --> 01:30:19.770 We wanna thank them. The

NOTE Confidence: 0.9673104

01:30:19.770 --> 01:30:21.229 MRF is a different Melanoma

NOTE Confidence: 0.9673104

01:30:21.450 --> 01:30:23.710 Research Foundation, Melanoma Research Alliance.

NOTE Confidence: 0.9625432

01:30:24.225 --> 01:30:25.665 The Department of Defense has

NOTE Confidence: 0.9625432

01:30:25.665 --> 01:30:26.945 funded many of us, and,

NOTE Confidence: 0.9625432

01:30:26.945 --> 01:30:28.625 actually, doctor Ishizuka just got

NOTE Confidence: 0.9625432

01:30:28.625 --> 01:30:30.064 something from the NIH as

NOTE Confidence: 0.9625432

01:30:30.064 --> 01:30:31.025 well just a few weeks

NOTE Confidence: 0.9625432

01:30:31.025 --> 01:30:31.525 ago.

NOTE Confidence: 0.9545152

01:30:32.064 --> 01:30:33.824 So it we are we

NOTE Confidence: 0.9545152

01:30:33.824 --> 01:30:35.185 are seeing some funding coming

NOTE Confidence: 0.9545152

01:30:35.185 --> 01:30:36.240 in, and but we're still

NOTE Confidence: 0.9545152

01:30:36.320 --> 01:30:37.600 funded from older projects. So

NOTE Confidence: 0.9545152

01:30:37.600 --> 01:30:38.800 things that were submitted three

NOTE Confidence: 0.9545152

01:30:38.800 --> 01:30:40.160 years ago typically get funded

NOTE Confidence: 0.9545152

01:30:40.160 --> 01:30:41.440 for five years. We're still

NOTE Confidence: 0.9545152
01:30:41.440 --> 01:30:41.940 okay.
NOTE Confidence: 0.99635315
01:30:42.320 --> 01:30:44.320 The other beauty or advantage
NOTE Confidence: 0.99635315
01:30:44.320 --> 01:30:45.200 that we have here is
NOTE Confidence: 0.99635315
01:30:45.200 --> 01:30:46.160 that we work for Yale
NOTE Confidence: 0.99635315
01:30:46.160 --> 01:30:46.660 University,
NOTE Confidence: 0.9694336
01:30:46.960 --> 01:30:48.660 and we're very, very grateful,
NOTE Confidence: 0.9640774
01:30:49.684 --> 01:30:51.125 for that because there is
NOTE Confidence: 0.9640774
01:30:51.125 --> 01:30:52.804 a fair amount of of
NOTE Confidence: 0.9640774
01:30:52.804 --> 01:30:54.244 money within the system. And
NOTE Confidence: 0.9640774
01:30:54.244 --> 01:30:55.045 we have some,
NOTE Confidence: 0.9944661
01:30:55.445 --> 01:30:56.644 donors who've helped us a
NOTE Confidence: 0.9944661
01:30:56.644 --> 01:30:57.144 lot,
NOTE Confidence: 0.9704437
01:30:58.085 --> 01:30:59.284 in the last year. And
NOTE Confidence: 0.9704437
01:30:59.284 --> 01:31:00.324 now more than ever, we
NOTE Confidence: 0.9704437
01:31:00.324 --> 01:31:02.005 actually really are dependent on
NOTE Confidence: 0.9704437

01:31:02.005 --> 01:31:02.505 philanthropic
NOTE Confidence: 0.9995117

01:31:03.445 --> 01:31:03.945 donations.
NOTE Confidence: 0.9959542

01:31:04.340 --> 01:31:05.300 What we're hoping for is
NOTE Confidence: 0.9959542

01:31:05.300 --> 01:31:06.260 to ride out the wave
NOTE Confidence: 0.9959542

01:31:06.260 --> 01:31:08.199 until the NIH changes
NOTE Confidence: 0.9927339

01:31:08.739 --> 01:31:10.099 and things go back to
NOTE Confidence: 0.9927339

01:31:10.099 --> 01:31:11.460 where they are. But if
NOTE Confidence: 0.9927339

01:31:11.460 --> 01:31:12.579 anyone here wants to vote
NOTE Confidence: 0.9927339

01:31:12.579 --> 01:31:13.860 with their feet, please do
NOTE Confidence: 0.9927339

01:31:13.860 --> 01:31:14.360 so.
NOTE Confidence: 0.95658505

01:31:15.860 --> 01:31:17.260 We you know, but but
NOTE Confidence: 0.95658505

01:31:17.260 --> 01:31:18.900 the the the government does
NOTE Confidence: 0.95658505

01:31:18.900 --> 01:31:20.215 sometimes care about what people
NOTE Confidence: 0.95658505

01:31:20.215 --> 01:31:21.735 think. And the irony is
NOTE Confidence: 0.95658505

01:31:21.735 --> 01:31:23.175 that the sent the the
NOTE Confidence: 0.95658505

01:31:23.175 --> 01:31:24.854 house and the senate didn't

NOTE Confidence: 0.95658505
01:31:24.854 --> 01:31:26.535 actually cut the budget for
NOTE Confidence: 0.95658505
01:31:26.535 --> 01:31:27.735 NIH funding this year. They're
NOTE Confidence: 0.95658505
01:31:27.735 --> 01:31:29.275 just not dispersing the money.
NOTE Confidence: 0.95658505
01:31:29.335 --> 01:31:30.135 We don't know what they're
NOTE Confidence: 0.95658505
01:31:30.135 --> 01:31:31.175 doing with it, but it
NOTE Confidence: 0.95658505
01:31:31.175 --> 01:31:32.155 hasn't come into
NOTE Confidence: 0.98876137
01:31:32.500 --> 01:31:33.619 it hasn't come into this
NOTE Confidence: 0.98876137
01:31:33.619 --> 01:31:34.979 institution. So thank you so
NOTE Confidence: 0.98876137
01:31:34.979 --> 01:31:35.860 much for that question. I
NOTE Confidence: 0.98876137
01:31:35.860 --> 01:31:36.820 don't know if anyone wants
NOTE Confidence: 0.98876137
01:31:36.820 --> 01:31:37.619 to add to that. Maybe
NOTE Confidence: 0.98876137
01:31:37.619 --> 01:31:39.400 doctor Schonfeldt is someone who's
NOTE Confidence: 0.970459
01:31:40.020 --> 01:31:41.139 also dependent on all of
NOTE Confidence: 0.970459
01:31:41.139 --> 01:31:41.639 this.
NOTE Confidence: 0.99938965
01:31:42.340 --> 01:31:43.719 Thanks for including me.
NOTE Confidence: 0.9572859

01:31:45.255 --> 01:31:46.695 I don't know. No. I
NOTE Confidence: 0.9572859

01:31:46.695 --> 01:31:47.814 mean, I I I think
NOTE Confidence: 0.9572859

01:31:47.814 --> 01:31:49.014 you said it well, you
NOTE Confidence: 0.9572859

01:31:49.014 --> 01:31:50.054 know, doctor Kluger. I think
NOTE Confidence: 0.9572859

01:31:50.054 --> 01:31:51.335 it's concerning, and I think
NOTE Confidence: 0.9572859

01:31:51.335 --> 01:31:52.775 we're all worried because just
NOTE Confidence: 0.9572859

01:31:52.775 --> 01:31:53.655 the there's a lot about
NOTE Confidence: 0.9572859

01:31:53.655 --> 01:31:54.534 people to say the least.
NOTE Confidence: 0.9572859

01:31:54.534 --> 01:31:55.175 Yeah. I think that, you
NOTE Confidence: 0.9572859

01:31:55.175 --> 01:31:55.895 know, at least for the
NOTE Confidence: 0.9572859

01:31:55.895 --> 01:31:56.775 time being, things are very
NOTE Confidence: 0.9572859

01:31:56.775 --> 01:31:57.655 different than the way they
NOTE Confidence: 0.9572859

01:31:57.655 --> 01:31:58.880 used to be. And I
NOTE Confidence: 0.9572859

01:31:58.880 --> 01:32:00.740 think for the melanoma community,
NOTE Confidence: 0.9572859

01:32:00.800 --> 01:32:01.760 you know, there's still a
NOTE Confidence: 0.9572859

01:32:01.760 --> 01:32:02.560 lot to be done, but

NOTE Confidence: 0.9572859

01:32:02.560 --> 01:32:03.520 a lot of success. And

NOTE Confidence: 0.9572859

01:32:03.520 --> 01:32:05.280 we wanna continue on that

NOTE Confidence: 0.9572859

01:32:05.280 --> 01:32:06.080 track, and you can go

NOTE Confidence: 0.9572859

01:32:06.080 --> 01:32:06.960 even further and take it

NOTE Confidence: 0.9572859

01:32:06.960 --> 01:32:07.760 to the next level, and

NOTE Confidence: 0.9572859

01:32:07.760 --> 01:32:08.720 that's what we're all working

NOTE Confidence: 0.9572859

01:32:08.720 --> 01:32:10.320 on. So we're we're hopeful,

NOTE Confidence: 0.9572859

01:32:10.320 --> 01:32:12.000 and I think there's some

NOTE Confidence: 0.9572859

01:32:12.000 --> 01:32:13.120 many good things going on

NOTE Confidence: 0.9572859

01:32:13.120 --> 01:32:14.525 research wise. And funding wise,

NOTE Confidence: 0.9572859

01:32:14.525 --> 01:32:15.804 there's other sources like doctor

NOTE Confidence: 0.9572859

01:32:15.804 --> 01:32:17.505 Kluger mentioned between the foundations

NOTE Confidence: 0.96307373

01:32:18.125 --> 01:32:19.804 and philanthropy and still still

NOTE Confidence: 0.96307373

01:32:19.804 --> 01:32:21.085 some government funds, but I

NOTE Confidence: 0.96307373

01:32:21.085 --> 01:32:22.284 think we are worried and

NOTE Confidence: 0.96307373

01:32:22.284 --> 01:32:23.244 and just worried where things
NOTE Confidence: 0.96307373

01:32:23.244 --> 01:32:25.104 are heading overall. So
NOTE Confidence: 0.9982422

01:32:26.540 --> 01:32:27.760 Thank you for the question.
NOTE Confidence: 0.19628906

01:32:29.020 --> 01:32:29.520 Actual
NOTE Confidence: 0.8312988

01:32:29.979 --> 01:32:31.040 clinical trial?
NOTE Confidence: 0.9895833

01:32:33.820 --> 01:32:34.880 There are some
NOTE Confidence: 0.99316406

01:32:35.580 --> 01:32:36.719 so the neoadjuvant
NOTE Confidence: 0.97396415

01:32:37.100 --> 01:32:38.860 studies that doctor Olino talked
NOTE Confidence: 0.97396415

01:32:38.860 --> 01:32:40.300 about actually mostly came out
NOTE Confidence: 0.97396415

01:32:40.300 --> 01:32:42.320 of Australia and Europe.
NOTE Confidence: 0.99921876

01:32:42.825 --> 01:32:44.445 We do we do participate
NOTE Confidence: 0.99921876

01:32:44.745 --> 01:32:46.045 in them when we can.
NOTE Confidence: 0.99763995

01:32:47.225 --> 01:32:48.345 We may see more coming
NOTE Confidence: 0.99763995

01:32:48.345 --> 01:32:49.785 out of Europe because of,
NOTE Confidence: 0.99763995

01:32:49.785 --> 01:32:50.985 you know, because of funding
NOTE Confidence: 0.99763995

01:32:50.985 --> 01:32:52.045 cuts over here.

NOTE Confidence: 0.9353841

01:32:56.929 --> 01:32:58.310 Yes. Thank you.

NOTE Confidence: 0.8828261

01:32:58.770 --> 01:33:00.630 Slide on the four buckets

NOTE Confidence: 0.8828261

01:33:00.770 --> 01:33:01.650 for somebody who's not in

NOTE Confidence: 0.8828261

01:33:01.650 --> 01:33:02.610 the medical field. That was

NOTE Confidence: 0.8828261

01:33:02.689 --> 01:33:03.830 that helps kinda,

NOTE Confidence: 0.9624634

01:33:04.530 --> 01:33:06.389 separate the the, different,

NOTE Confidence: 0.9995117

01:33:07.330 --> 01:33:07.830 therapies.

NOTE Confidence: 0.9794171

01:33:08.625 --> 01:33:09.825 Did I understand right that

NOTE Confidence: 0.9794171

01:33:09.825 --> 01:33:11.345 you said, when you spoke

NOTE Confidence: 0.9794171

01:33:11.345 --> 01:33:12.405 about the immunotherapy

NOTE Confidence: 0.84187824

01:33:12.785 --> 01:33:13.685 that it has,

NOTE Confidence: 0.87898254

01:33:14.305 --> 01:33:15.985 more permanent response? It's more

NOTE Confidence: 0.87898254

01:33:15.985 --> 01:33:17.045 likely than that.

NOTE Confidence: 0.91661835

01:33:17.345 --> 01:33:19.345 And but yet more permanent

NOTE Confidence: 0.91661835

01:33:19.345 --> 01:33:20.705 side effects that would stay

NOTE Confidence: 0.91661835

01:33:20.705 --> 01:33:21.825 with could stay with the
NOTE Confidence: 0.91661835

01:33:21.825 --> 01:33:22.325 person.
NOTE Confidence: 0.86466473

01:33:22.820 --> 01:33:24.660 You know? I see. You
NOTE Confidence: 0.86466473

01:33:24.660 --> 01:33:25.160 know,
NOTE Confidence: 0.9970703

01:33:26.100 --> 01:33:26.600 diabetes
NOTE Confidence: 0.9523926

01:33:26.980 --> 01:33:28.760 and thyroid disease, etcetera, etcetera.
NOTE Confidence: 0.9523926

01:33:29.060 --> 01:33:30.040 So is that
NOTE Confidence: 0.9796875

01:33:30.660 --> 01:33:31.940 still of the four buckets,
NOTE Confidence: 0.9796875

01:33:31.940 --> 01:33:33.400 is that the number one
NOTE Confidence: 0.9433594

01:33:33.780 --> 01:33:35.400 place you go first? Or
NOTE Confidence: 0.9433594

01:33:35.620 --> 01:33:37.400 if you are BRAF positive,
NOTE Confidence: 0.93657976

01:33:37.895 --> 01:33:39.015 then you would go with
NOTE Confidence: 0.93657976

01:33:39.015 --> 01:33:40.775 targeted and then your secondary
NOTE Confidence: 0.93657976

01:33:40.775 --> 01:33:41.755 would be immune.
NOTE Confidence: 0.9429675

01:33:42.455 --> 01:33:43.655 So it was on doctor
NOTE Confidence: 0.9429675

01:33:43.655 --> 01:33:45.015 Chen's slide, the answer to

NOTE Confidence: 0.9429675
01:33:45.015 --> 01:33:45.895 your question. I'm gonna let
NOTE Confidence: 0.9429675
01:33:45.895 --> 01:33:47.195 her answer it though.
NOTE Confidence: 0.813494
01:33:48.215 --> 01:33:49.094 Well, there was a lot
NOTE Confidence: 0.813494
01:33:49.094 --> 01:33:50.375 there. We're not saying we're
NOTE Confidence: 0.813494
01:33:50.375 --> 01:33:51.354 not having a standard.
NOTE Confidence: 0.9430908
01:33:52.700 --> 01:33:53.820 Wait. Wait. We we didn't
NOTE Confidence: 0.9430908
01:33:53.820 --> 01:33:55.200 cover this in clinic already?
NOTE Confidence: 0.9253906
01:33:58.380 --> 01:33:59.840 Just a few hours ago.
NOTE Confidence: 0.9801549
01:34:02.220 --> 01:34:03.820 So, really, it depends on
NOTE Confidence: 0.9801549
01:34:03.820 --> 01:34:04.560 the context.
NOTE Confidence: 0.9992676
01:34:04.939 --> 01:34:06.320 Right? If you have metastatic
NOTE Confidence: 0.9992676
01:34:06.620 --> 01:34:07.120 disease,
NOTE Confidence: 0.99902344
01:34:07.905 --> 01:34:09.345 then the chance of having
NOTE Confidence: 0.99902344
01:34:09.345 --> 01:34:11.425 a long term benefit and
NOTE Confidence: 0.99902344
01:34:11.425 --> 01:34:11.925 response
NOTE Confidence: 0.93630373

01:34:12.225 --> 01:34:13.665 and potentially even one day
NOTE Confidence: 0.93630373

01:34:13.665 --> 01:34:15.604 coming off of treatment entirely,
NOTE Confidence: 0.9810213

01:34:16.225 --> 01:34:17.425 if you have a complete
NOTE Confidence: 0.9810213

01:34:17.425 --> 01:34:19.205 response, meaning all the disease
NOTE Confidence: 0.9810213

01:34:19.425 --> 01:34:21.060 disappears on your scans, is
NOTE Confidence: 0.9810213

01:34:21.060 --> 01:34:22.520 higher with immune therapy.
NOTE Confidence: 0.92491734

01:34:23.140 --> 01:34:24.340 And so in those settings,
NOTE Confidence: 0.92491734

01:34:24.340 --> 01:34:26.439 sometimes a little risk outweighs
NOTE Confidence: 0.92491734

01:34:26.660 --> 01:34:27.880 or sorry. The
NOTE Confidence: 0.93866646

01:34:28.420 --> 01:34:30.180 the the benefits outweigh the
NOTE Confidence: 0.93866646

01:34:30.180 --> 01:34:31.640 risks in that scenario.
NOTE Confidence: 0.998584

01:34:32.740 --> 01:34:34.740 With the targeted therapies, they
NOTE Confidence: 0.998584

01:34:34.740 --> 01:34:36.965 work in the metastatic setting
NOTE Confidence: 0.9277344

01:34:38.064 --> 01:34:39.685 well for only so long,
NOTE Confidence: 0.9277344

01:34:39.905 --> 01:34:41.604 and then people relapse.
NOTE Confidence: 0.9749756

01:34:42.064 --> 01:34:43.685 It stops working. Resistance

NOTE Confidence: 0.9924491
01:34:44.064 --> 01:34:45.185 builds up, and then we
NOTE Confidence: 0.9924491
01:34:45.185 --> 01:34:46.784 start having to pivot again,
NOTE Confidence: 0.9924491
01:34:46.784 --> 01:34:48.085 talk about different therapies.
NOTE Confidence: 0.9872001
01:34:49.310 --> 01:34:51.090 When you're talking about stage
NOTE Confidence: 0.9872001
01:34:51.150 --> 01:34:52.050 three, though,
NOTE Confidence: 0.9996745
01:34:52.989 --> 01:34:54.350 they both have the same
NOTE Confidence: 0.9996745
01:34:54.350 --> 01:34:54.850 response
NOTE Confidence: 0.9995117
01:34:55.229 --> 01:34:56.450 in terms of decreasing
NOTE Confidence: 0.97924805
01:34:56.830 --> 01:34:57.890 relapse rates,
NOTE Confidence: 0.99902344
01:34:58.430 --> 01:34:58.930 but
NOTE Confidence: 0.9977051
01:34:59.470 --> 01:35:01.070 there is chance of a
NOTE Confidence: 0.9977051
01:35:01.070 --> 01:35:02.945 permanent side effect with the
NOTE Confidence: 0.9977051
01:35:02.945 --> 01:35:04.784 immune therapy that is not
NOTE Confidence: 0.9977051
01:35:04.784 --> 01:35:06.324 there with the targeted therapy.
NOTE Confidence: 0.99960935
01:35:07.104 --> 01:35:09.364 The targeted therapy also increases
NOTE Confidence: 0.9633789

01:35:10.064 --> 01:35:10.564 survival.
NOTE Confidence: 0.97202843

01:35:11.184 --> 01:35:12.304 So that's why in that
NOTE Confidence: 0.97202843

01:35:12.304 --> 01:35:13.744 stage three setting when we
NOTE Confidence: 0.97202843

01:35:13.744 --> 01:35:15.505 don't really know. Right? Are
NOTE Confidence: 0.97202843

01:35:15.505 --> 01:35:16.864 we doing you more harm
NOTE Confidence: 0.97202843

01:35:16.864 --> 01:35:17.364 or
NOTE Confidence: 0.9804093

01:35:17.800 --> 01:35:20.040 actually not providing any benefit
NOTE Confidence: 0.9804093

01:35:20.040 --> 01:35:21.880 with additional treatment? Technically, the
NOTE Confidence: 0.9804093

01:35:21.880 --> 01:35:23.320 tumor is out. The lymph
NOTE Confidence: 0.9804093

01:35:23.320 --> 01:35:24.840 nodes are out. There's no
NOTE Confidence: 0.9804093

01:35:24.840 --> 01:35:26.120 evidence of disease on the
NOTE Confidence: 0.9804093

01:35:26.120 --> 01:35:26.620 scans.
NOTE Confidence: 0.98255336

01:35:27.000 --> 01:35:29.080 And so to commit to
NOTE Confidence: 0.98255336

01:35:29.080 --> 01:35:31.000 something that could provide a
NOTE Confidence: 0.98255336

01:35:31.000 --> 01:35:32.380 permanent side effect,
NOTE Confidence: 0.95477295

01:35:32.864 --> 01:35:34.164 like type one diabetes,

NOTE Confidence: 0.9737079

01:35:34.784 --> 01:35:36.704 would be extremely detrimental because

NOTE Confidence: 0.9737079

01:35:36.704 --> 01:35:38.465 you maybe never needed that

NOTE Confidence: 0.9737079

01:35:38.465 --> 01:35:39.525 therapy at all.

NOTE Confidence: 0.9970703

01:35:39.905 --> 01:35:40.724 And so

NOTE Confidence: 0.9937744

01:35:41.025 --> 01:35:42.644 it depends on the stage.

NOTE Confidence: 0.9937744

01:35:42.704 --> 01:35:44.164 It depends on

NOTE Confidence: 0.9904155

01:35:44.900 --> 01:35:46.660 kind of personal decisions about

NOTE Confidence: 0.9904155

01:35:46.660 --> 01:35:48.040 the patient. This is why

NOTE Confidence: 0.9904155

01:35:48.260 --> 01:35:49.780 not everyone fits into the

NOTE Confidence: 0.9904155

01:35:49.780 --> 01:35:52.120 same mold. There's other variables.

NOTE Confidence: 0.9904155

01:35:52.180 --> 01:35:54.340 There's other lifestyle factors that

NOTE Confidence: 0.9904155

01:35:54.340 --> 01:35:55.460 we have to take into

NOTE Confidence: 0.9904155

01:35:55.460 --> 01:35:55.960 account

NOTE Confidence: 0.9968074

01:35:56.260 --> 01:35:57.300 to make sure that we

NOTE Confidence: 0.9968074

01:35:57.300 --> 01:35:59.415 personalize that decision and make

NOTE Confidence: 0.9968074

01:35:59.575 --> 01:36:00.555 the right decision
NOTE Confidence: 0.96855026

01:36:00.935 --> 01:36:02.215 as a group. You know,
NOTE Confidence: 0.96855026

01:36:02.215 --> 01:36:03.595 it's not what I recommend
NOTE Confidence: 0.96855026

01:36:03.814 --> 01:36:04.314 necessarily.
NOTE Confidence: 0.9886116

01:36:04.935 --> 01:36:06.775 It's what, like, the the
NOTE Confidence: 0.9886116

01:36:06.935 --> 01:36:08.535 where the values align in
NOTE Confidence: 0.9886116

01:36:08.535 --> 01:36:10.215 terms of improving long term
NOTE Confidence: 0.9886116

01:36:10.215 --> 01:36:11.115 patient outcomes
NOTE Confidence: 0.9923828

01:36:11.575 --> 01:36:13.515 and minimizing long term toxicity.
NOTE Confidence: 0.9900716

01:36:14.439 --> 01:36:15.179 Does that make
NOTE Confidence: 0.9954834

01:36:15.479 --> 01:36:16.460 sense? Okay.
NOTE Confidence: 0.8688812

01:36:18.039 --> 01:36:20.199 Okay. Necessarily, go for it
NOTE Confidence: 0.8688812

01:36:20.199 --> 01:36:21.239 first. Yeah. Just
NOTE Confidence: 0.91978234

01:36:22.439 --> 01:36:23.800 Thank you. So it's very
NOTE Confidence: 0.91978234

01:36:23.800 --> 01:36:24.920 interesting. In the past when
NOTE Confidence: 0.91978234

01:36:24.920 --> 01:36:26.059 we've had these symposia,

NOTE Confidence: 0.9479632

01:36:26.360 --> 01:36:27.400 all the questions were for

NOTE Confidence: 0.9479632

01:36:27.400 --> 01:36:27.979 the dermatologist,

NOTE Confidence: 0.83123916

01:36:29.925 --> 01:36:30.660 dermatologist, and he's just sitting

NOTE Confidence: 0.83123916

01:36:30.660 --> 01:36:31.604 there. So does anyone have

NOTE Confidence: 0.83123916

01:36:31.604 --> 01:36:32.564 a question for him going,

NOTE Confidence: 0.83123916

01:36:32.564 --> 01:36:34.564 going, going? Okay. Question is

NOTE Confidence: 0.83123916

01:36:34.564 --> 01:36:35.445 very good one. I mean,

NOTE Confidence: 0.83123916

01:36:35.445 --> 01:36:37.385 as in having had immunotherapy

NOTE Confidence: 0.46258545

01:36:37.685 --> 01:36:38.585 and the I

NOTE Confidence: 0.9430339

01:36:39.125 --> 01:36:40.485 personally haven't had any long

NOTE Confidence: 0.9430339

01:36:40.485 --> 01:36:40.985 term

NOTE Confidence: 0.8283447

01:36:41.320 --> 01:36:43.080 side effects. And not gonna

NOTE Confidence: 0.8283447

01:36:43.080 --> 01:36:43.800 move, but I think the

NOTE Confidence: 0.8283447

01:36:43.800 --> 01:36:45.020 cancer is out of me.

NOTE Confidence: 0.8797119

01:36:45.320 --> 01:36:46.280 And it was a lifesaver

NOTE Confidence: 0.8797119

01:36:46.280 --> 01:36:47.080 for me. But now it
NOTE Confidence: 0.8797119

01:36:47.080 --> 01:36:48.600 sounds like that's not as
NOTE Confidence: 0.8797119

01:36:48.600 --> 01:36:49.800 quick to be recommended course
NOTE Confidence: 0.8797119

01:36:49.800 --> 01:36:51.160 of action right now. Did
NOTE Confidence: 0.8797119

01:36:51.160 --> 01:36:52.540 I? And I is fascinating.
NOTE Confidence: 0.95094806

01:36:53.000 --> 01:36:53.800 One thing that was on
NOTE Confidence: 0.95094806

01:36:53.800 --> 01:36:54.920 doctor Tran's slide,
NOTE Confidence: 0.97239554

01:36:55.995 --> 01:36:56.875 and I think there was
NOTE Confidence: 0.97239554

01:36:56.875 --> 01:36:58.655 such an open question until
NOTE Confidence: 0.97239554

01:36:58.795 --> 01:37:00.255 four or five years ago
NOTE Confidence: 0.97239554

01:37:00.475 --> 01:37:01.675 for stage four, which is
NOTE Confidence: 0.97239554

01:37:01.675 --> 01:37:02.655 the same thing as metastatic
NOTE Confidence: 0.97239554

01:37:02.715 --> 01:37:03.755 disease, so a little different
NOTE Confidence: 0.97239554

01:37:03.755 --> 01:37:05.195 than than stage three, but
NOTE Confidence: 0.97239554

01:37:05.195 --> 01:37:06.314 whether one is better or
NOTE Confidence: 0.97239554

01:37:06.314 --> 01:37:07.354 not for these very issues.

NOTE Confidence: 0.97239554

01:37:07.354 --> 01:37:08.715 And so there was a

NOTE Confidence: 0.97239554

01:37:08.715 --> 01:37:10.074 specific trial that that doctor

NOTE Confidence: 0.97239554

01:37:10.074 --> 01:37:11.455 Tran mentioned that really

NOTE Confidence: 0.9690306

01:37:11.949 --> 01:37:13.550 was directly addressing that question

NOTE Confidence: 0.9690306

01:37:13.550 --> 01:37:15.070 in stage four patients, and

NOTE Confidence: 0.9690306

01:37:15.070 --> 01:37:16.110 there was such a wide

NOTE Confidence: 0.9690306

01:37:16.110 --> 01:37:17.630 gap in how patients did

NOTE Confidence: 0.9690306

01:37:17.630 --> 01:37:19.469 when they got immunotherapy first.

NOTE Confidence: 0.9690306

01:37:19.469 --> 01:37:20.510 So it really is what

NOTE Confidence: 0.9690306

01:37:20.510 --> 01:37:21.309 we go to if we

NOTE Confidence: 0.9690306

01:37:21.309 --> 01:37:22.349 can in in the stage

NOTE Confidence: 0.9690306

01:37:22.349 --> 01:37:23.550 four setting to where we

NOTE Confidence: 0.9690306

01:37:23.550 --> 01:37:24.510 think it really does make

NOTE Confidence: 0.9690306

01:37:24.510 --> 01:37:26.034 a difference if a patient

NOTE Confidence: 0.9690306

01:37:26.034 --> 01:37:26.934 can get immunotherapy.

NOTE Confidence: 0.9934513

01:37:27.395 --> 01:37:28.514 Yeah. And that trial was
NOTE Confidence: 0.9934513

01:37:28.514 --> 01:37:29.715 stopped early because they felt
NOTE Confidence: 0.9934513

01:37:29.715 --> 01:37:31.494 it was unethical to continue
NOTE Confidence: 0.9934513

01:37:31.715 --> 01:37:32.375 to give
NOTE Confidence: 0.9856145

01:37:32.835 --> 01:37:34.514 the targeted therapies first in
NOTE Confidence: 0.9856145

01:37:34.514 --> 01:37:36.275 stage four because the difference
NOTE Confidence: 0.9856145

01:37:36.275 --> 01:37:37.175 was so big.
NOTE Confidence: 0.9439779

01:37:41.443 --> 01:37:42.723 Any well, thank you all
NOTE Confidence: 0.9439779

01:37:42.723 --> 01:37:44.162 for coming. This was lovely
NOTE Confidence: 0.9439779

01:37:44.162 --> 01:37:45.863 and for the excellent questions.