

WEBVTT

NOTE duration: "01:28:04.108"

NOTE Confidence: 0.90831137

00:00:00.080 --> 00:00:00.900 Alright. Let's get

NOTE Confidence: 0.9344439

00:00:01.439 --> 00:00:03.040 started. Good eve good evening,

NOTE Confidence: 0.9344439

00:00:03.040 --> 00:00:04.000 everyone, and thank you for

NOTE Confidence: 0.9344439

00:00:04.000 --> 00:00:04.980 joining us for,

NOTE Confidence: 0.90911794

00:00:05.519 --> 00:00:06.799 the Center of GI Cancer,

NOTE Confidence: 0.90911794

00:00:06.799 --> 00:00:08.420 the CME webinar series,

NOTE Confidence: 0.87022793

00:00:09.519 --> 00:00:09.920 at the

NOTE Confidence: 0.91521573

00:00:10.719 --> 00:00:11.619 for the Gastroenterology

NOTE Confidence: 0.9673954

00:00:12.000 --> 00:00:14.385 Cancer segment. I'm Raghav Sundar.

NOTE Confidence: 0.9673954

00:00:14.525 --> 00:00:15.985 I'm a GI medical oncologist

NOTE Confidence: 0.9673954

00:00:16.125 --> 00:00:17.265 and leader of the Gastroesophageal

NOTE Confidence: 0.8855568

00:00:17.645 --> 00:00:18.465 Cancer Program.

NOTE Confidence: 0.998783

00:00:22.605 --> 00:00:23.585 These are my disclosures.

NOTE Confidence: 0.9678272

00:00:25.600 --> 00:00:26.560 So for the past few

NOTE Confidence: 0.9678272

00:00:26.560 --> 00:00:27.920 months, the Center for GI  
NOTE Confidence: 0.9678272

00:00:27.920 --> 00:00:29.860 Cancers have had a webinar  
NOTE Confidence: 0.9678272

00:00:29.920 --> 00:00:31.360 series. This is part three  
NOTE Confidence: 0.9678272

00:00:31.360 --> 00:00:33.040 of this webinar series. In  
NOTE Confidence: 0.9678272

00:00:33.040 --> 00:00:34.800 February, we had a GI  
NOTE Confidence: 0.9678272

00:00:34.800 --> 00:00:36.340 oncology year in review.  
NOTE Confidence: 0.9337723

00:00:36.800 --> 00:00:38.445 And in March with for  
NOTE Confidence: 0.9337723

00:00:38.445 --> 00:00:40.365 Colorectal Cancer Awareness Month, we  
NOTE Confidence: 0.9337723

00:00:40.365 --> 00:00:41.265 had the colorectal,  
NOTE Confidence: 0.9110297

00:00:42.205 --> 00:00:43.805 series. And this month, we're  
NOTE Confidence: 0.9110297

00:00:43.805 --> 00:00:44.705 gonna do Gastroesophageal  
NOTE Confidence: 0.9580072

00:00:45.085 --> 00:00:46.605 Cancers as a part of  
NOTE Confidence: 0.9580072

00:00:46.605 --> 00:00:47.265 the Gastroesophageal  
NOTE Confidence: 0.99286616

00:00:47.645 --> 00:00:49.805 Cancer Awareness Month. And we  
NOTE Confidence: 0.99286616

00:00:49.805 --> 00:00:51.245 have I'm I'm pleased to  
NOTE Confidence: 0.99286616

00:00:51.245 --> 00:00:52.945 be joined by three fantastic

NOTE Confidence: 0.99286616  
00:00:53.005 --> 00:00:53.505 speakers,  
NOTE Confidence: 0.974794  
00:00:54.170 --> 00:00:54.890 who will be talking to  
NOTE Confidence: 0.974794  
00:00:54.890 --> 00:00:56.329 us about different aspects of  
NOTE Confidence: 0.974794  
00:00:56.329 --> 00:00:57.629 the multimodal discipline  
NOTE Confidence: 0.88927484  
00:00:58.089 --> 00:00:58.670 discipline of,  
NOTE Confidence: 0.9689319  
00:01:00.730 --> 00:01:02.030 gastroesophageal cancers.  
NOTE Confidence: 0.943831  
00:01:02.489 --> 00:01:04.170 So I have, professor Dan  
NOTE Confidence: 0.943831  
00:01:04.170 --> 00:01:04.670 Boffa,  
NOTE Confidence: 0.9550548  
00:01:05.049 --> 00:01:06.409 who's a professor of surgery  
NOTE Confidence: 0.9550548  
00:01:06.409 --> 00:01:07.630 from thoracic oncology,  
NOTE Confidence: 0.9264476  
00:01:07.930 --> 00:01:08.970 who'll be talking to us  
NOTE Confidence: 0.9264476  
00:01:08.970 --> 00:01:09.209 about,  
NOTE Confidence: 0.99576175  
00:01:10.064 --> 00:01:10.965 surgical updates.  
NOTE Confidence: 0.9792069  
00:01:11.985 --> 00:01:12.384 I have,  
NOTE Confidence: 0.96259516  
00:01:12.944 --> 00:01:14.465 doctor Kevin Du, who's an  
NOTE Confidence: 0.96259516

00:01:14.465 --> 00:01:16.384 associate professor from radiation oncology,

NOTE Confidence: 0.96259516

00:01:16.384 --> 00:01:17.825 who'll be updating us on

NOTE Confidence: 0.96259516

00:01:17.825 --> 00:01:20.325 the latest in radiation oncology

NOTE Confidence: 0.96259516

00:01:20.384 --> 00:01:21.125 for gastroesophageal

NOTE Confidence: 0.94130224

00:01:21.505 --> 00:01:22.005 cancers.

NOTE Confidence: 0.9519281

00:01:22.530 --> 00:01:24.050 And I also have, Doctor.

NOTE Confidence: 0.9519281

00:01:24.050 --> 00:01:25.490 Joanna Gibson, who's an associate

NOTE Confidence: 0.9519281

00:01:25.490 --> 00:01:27.090 professor of pathology, who'll be

NOTE Confidence: 0.9519281

00:01:27.090 --> 00:01:27.810 talking to us in the

NOTE Confidence: 0.9519281

00:01:27.810 --> 00:01:29.330 latest in the biomarkers of

NOTE Confidence: 0.9519281

00:01:29.330 --> 00:01:29.830 gastroesophageal

NOTE Confidence: 0.9967119

00:01:30.130 --> 00:01:30.630 cancers.

NOTE Confidence: 0.98521644

00:01:31.250 --> 00:01:32.290 And to get things started

NOTE Confidence: 0.98521644

00:01:32.290 --> 00:01:33.650 off, we'll start with Doctor.

NOTE Confidence: 0.98521644

00:01:33.650 --> 00:01:34.930 Gibson sharing with us a

NOTE Confidence: 0.98521644

00:01:34.930 --> 00:01:36.069 little bit about,

NOTE Confidence: 0.96539545

00:01:37.155 --> 00:01:38.834 what's up and new in,

NOTE Confidence: 0.96539545

00:01:39.155 --> 00:01:40.935 the pathology space for gastroesophageal

NOTE Confidence: 0.9846046

00:01:41.395 --> 00:01:43.415 cancers. Doctor Gibson, please.

NOTE Confidence: 0.95354015

00:01:43.955 --> 00:01:44.775 Thank you.

NOTE Confidence: 0.92012864

00:01:51.070 --> 00:01:51.570 So,

NOTE Confidence: 0.98455316

00:01:52.110 --> 00:01:53.070 as you can see, I

NOTE Confidence: 0.98455316

00:01:53.070 --> 00:01:54.450 went with a green background

NOTE Confidence: 0.98455316

00:01:54.509 --> 00:01:55.549 because it's spring, and I

NOTE Confidence: 0.98455316

00:01:55.549 --> 00:01:56.369 was inspired.

NOTE Confidence: 0.97015995

00:01:57.150 --> 00:01:58.670 So it's not a diss

NOTE Confidence: 0.97015995

00:01:58.670 --> 00:01:59.409 at Yale.

NOTE Confidence: 0.9765991

00:01:59.950 --> 00:02:01.250 The Yale blue is wonderful,

NOTE Confidence: 0.9765991

00:02:01.310 --> 00:02:02.509 but I thought this was

NOTE Confidence: 0.9765991

00:02:02.509 --> 00:02:03.009 appropriate.

NOTE Confidence: 0.9905089

00:02:03.549 --> 00:02:04.030 So,

NOTE Confidence: 0.99835664

00:02:04.509 --> 00:02:05.490 I have no disclosures.  
NOTE Confidence: 0.9774804

00:02:06.625 --> 00:02:08.625 So just a broad, review  
NOTE Confidence: 0.9774804

00:02:08.625 --> 00:02:09.764 on the role of pathology  
NOTE Confidence: 0.9774804

00:02:09.825 --> 00:02:10.565 in GJ,  
NOTE Confidence: 0.9888334

00:02:11.345 --> 00:02:11.845 adenocarcinomas.  
NOTE Confidence: 0.8495019

00:02:13.264 --> 00:02:14.165 Obviously, pathology,  
NOTE Confidence: 0.9523735

00:02:15.264 --> 00:02:15.745 does,  
NOTE Confidence: 0.997952

00:02:16.065 --> 00:02:17.504 the tissue confirmation of the  
NOTE Confidence: 0.997952

00:02:17.504 --> 00:02:18.004 diagnosis  
NOTE Confidence: 0.981413

00:02:18.544 --> 00:02:19.764 by looking at biopsies.  
NOTE Confidence: 0.96281815

00:02:20.540 --> 00:02:22.540 We help with, staging once  
NOTE Confidence: 0.96281815

00:02:22.540 --> 00:02:24.139 a resection has occurred by  
NOTE Confidence: 0.96281815

00:02:24.139 --> 00:02:24.639 reviewing  
NOTE Confidence: 0.99438107

00:02:25.099 --> 00:02:26.220 the extent of the tumor  
NOTE Confidence: 0.99438107

00:02:26.220 --> 00:02:28.000 and and, lymph nodes.  
NOTE Confidence: 0.9793185

00:02:28.540 --> 00:02:30.000 We also assess metastases

NOTE Confidence: 0.9598723  
00:02:30.379 --> 00:02:31.260 in a in a lot  
NOTE Confidence: 0.9598723  
00:02:31.260 --> 00:02:32.235 of different ways.  
NOTE Confidence: 0.9963342  
00:02:33.195 --> 00:02:34.395 And the main thing,  
NOTE Confidence: 0.9990655  
00:02:34.715 --> 00:02:35.835 that we sort of also  
NOTE Confidence: 0.9990655  
00:02:35.835 --> 00:02:37.435 contribute to that has impact  
NOTE Confidence: 0.9990655  
00:02:37.435 --> 00:02:38.715 on how patients are treated  
NOTE Confidence: 0.9990655  
00:02:38.715 --> 00:02:39.215 is  
NOTE Confidence: 0.970469  
00:02:39.514 --> 00:02:41.615 biomarker assessment. And in particular,  
NOTE Confidence: 0.9987787  
00:02:42.155 --> 00:02:43.675 I'm going to talk about  
NOTE Confidence: 0.9987787  
00:02:43.675 --> 00:02:44.895 the IHC biomarkers.  
NOTE Confidence: 0.9998646  
00:02:46.370 --> 00:02:46.870 So  
NOTE Confidence: 0.9951751  
00:02:47.570 --> 00:02:49.590 at, Yale, we perform  
NOTE Confidence: 0.99985975  
00:02:49.889 --> 00:02:51.110 IHC biomarkers  
NOTE Confidence: 0.96420944  
00:02:51.570 --> 00:02:52.230 at reflux,  
NOTE Confidence: 0.9631422  
00:02:53.490 --> 00:02:55.270 at diagnosis through a reflux  
NOTE Confidence: 0.9631422

00:02:55.330 --> 00:02:57.330 pathway. So reflux meaning that

NOTE Confidence: 0.9631422

00:02:57.330 --> 00:02:59.330 we do it whenever we,

NOTE Confidence: 0.9631422

00:02:59.650 --> 00:03:00.850 have a diagnosis of a

NOTE Confidence: 0.9631422

00:03:00.850 --> 00:03:01.350 gastroesophageal

NOTE Confidence: 0.9690166

00:03:02.105 --> 00:03:02.605 adenocarcinoma.

NOTE Confidence: 0.99671525

00:03:03.625 --> 00:03:05.305 And whether that's primary at

NOTE Confidence: 0.99671525

00:03:05.305 --> 00:03:06.525 the site or metastatic,

NOTE Confidence: 0.9942913

00:03:07.224 --> 00:03:08.504 if that's what the diagnosis

NOTE Confidence: 0.9942913

00:03:08.504 --> 00:03:09.864 is, we will perform all

NOTE Confidence: 0.9942913

00:03:09.864 --> 00:03:11.245 four of these biomarkers,

NOTE Confidence: 0.9901354

00:03:13.385 --> 00:03:14.665 at whatever time of the

NOTE Confidence: 0.9901354

00:03:14.665 --> 00:03:15.784 diagnosis. And one of the

NOTE Confidence: 0.9901354

00:03:15.784 --> 00:03:17.165 reasons why is because,

NOTE Confidence: 0.9550551

00:03:18.389 --> 00:03:19.510 the percent of patients that

NOTE Confidence: 0.9550551

00:03:19.510 --> 00:03:20.709 present with stage three zero

NOTE Confidence: 0.9550551

00:03:20.709 --> 00:03:22.150 four disease at the time

NOTE Confidence: 0.9550551  
00:03:22.150 --> 00:03:23.669 of diagnosis is pretty high,  
NOTE Confidence: 0.9550551  
00:03:23.669 --> 00:03:24.870 you know, gets into seventy  
NOTE Confidence: 0.9550551  
00:03:24.870 --> 00:03:26.650 percent or so for GJ  
NOTE Confidence: 0.9550551  
00:03:26.709 --> 00:03:27.849 cancers. And,  
NOTE Confidence: 0.97827786  
00:03:29.430 --> 00:03:30.550 and it it is helpful  
NOTE Confidence: 0.97827786  
00:03:30.550 --> 00:03:31.635 to have these biomarkers  
NOTE Confidence: 0.95998764  
00:03:32.194 --> 00:03:33.715 upfront so so patients can  
NOTE Confidence: 0.95998764  
00:03:33.715 --> 00:03:34.995 be triaged to the right  
NOTE Confidence: 0.95998764  
00:03:34.995 --> 00:03:36.135 treatment option.  
NOTE Confidence: 0.97690743  
00:03:36.754 --> 00:03:38.295 And while we perform IHC,  
NOTE Confidence: 0.97690743  
00:03:38.515 --> 00:03:40.215 we do use other techniques  
NOTE Confidence: 0.97690743  
00:03:40.355 --> 00:03:41.095 if necessary,  
NOTE Confidence: 0.9254883  
00:03:41.715 --> 00:03:42.215 for,  
NOTE Confidence: 0.9982047  
00:03:42.915 --> 00:03:44.135 assessment of  
NOTE Confidence: 0.9755626  
00:03:45.970 --> 00:03:47.910 confirmation or or other biomarkers  
NOTE Confidence: 0.9755626

00:03:48.130 --> 00:03:49.570 as well. And those are  
NOTE Confidence: 0.9755626

00:03:49.570 --> 00:03:50.770 through a, you know, slightly  
NOTE Confidence: 0.9755626

00:03:50.770 --> 00:03:51.590 different pathway.  
NOTE Confidence: 0.99618626

00:03:52.530 --> 00:03:53.330 So I'm just gonna go  
NOTE Confidence: 0.99618626

00:03:53.330 --> 00:03:54.390 through each of these.  
NOTE Confidence: 0.96194786

00:03:55.330 --> 00:03:56.530 The initial ones, I'll just  
NOTE Confidence: 0.96194786

00:03:56.530 --> 00:03:57.970 kind of, walk through in  
NOTE Confidence: 0.96194786

00:03:57.970 --> 00:03:59.570 an abridged way. So mismatch  
NOTE Confidence: 0.96194786

00:03:59.570 --> 00:04:00.470 repair deficiency  
NOTE Confidence: 0.98040855

00:04:01.125 --> 00:04:02.405 is the biomarker that I  
NOTE Confidence: 0.98040855

00:04:02.405 --> 00:04:03.465 kinda like to say,  
NOTE Confidence: 0.9786709

00:04:04.085 --> 00:04:05.225 has double duty,  
NOTE Confidence: 0.9770133

00:04:05.685 --> 00:04:07.365 because it, it is used  
NOTE Confidence: 0.9770133

00:04:07.365 --> 00:04:08.565 for a couple of different  
NOTE Confidence: 0.9770133

00:04:08.565 --> 00:04:10.645 clinical contexts. The biological basis  
NOTE Confidence: 0.9770133

00:04:10.645 --> 00:04:12.905 for targeted therapy is immunotherapy

NOTE Confidence: 0.9990396  
00:04:13.205 --> 00:04:13.705 targeting  
NOTE Confidence: 0.8187216  
00:04:14.070 --> 00:04:15.270 PD one, PD 1 one  
NOTE Confidence: 0.8187216  
00:04:15.270 --> 00:04:15.770 pathway.  
NOTE Confidence: 0.9776063  
00:04:16.550 --> 00:04:18.089 And that's thought to occur  
NOTE Confidence: 0.9776063  
00:04:18.150 --> 00:04:18.650 because  
NOTE Confidence: 0.9873716  
00:04:19.190 --> 00:04:21.370 tumors with mismatch repair deficiency  
NOTE Confidence: 0.9958381  
00:04:21.670 --> 00:04:22.810 or MSI status  
NOTE Confidence: 0.99199754  
00:04:23.910 --> 00:04:24.410 have  
NOTE Confidence: 0.9990619  
00:04:24.790 --> 00:04:25.290 high  
NOTE Confidence: 0.9209719  
00:04:26.604 --> 00:04:27.504 tumor antigen,  
NOTE Confidence: 0.98389107  
00:04:28.125 --> 00:04:29.664 and can activate,  
NOTE Confidence: 0.97675586  
00:04:29.964 --> 00:04:31.805 the immune system. And so  
NOTE Confidence: 0.97675586  
00:04:31.805 --> 00:04:33.664 by using PDL one inhibition,  
NOTE Confidence: 0.97675586  
00:04:33.724 --> 00:04:35.004 we can sort of target,  
NOTE Confidence: 0.97675586  
00:04:35.324 --> 00:04:36.544 tumor cells for  
NOTE Confidence: 0.92129195

00:04:38.380 --> 00:04:39.120 immune mediated,  
NOTE Confidence: 0.9905714

00:04:39.580 --> 00:04:40.080 destruction.  
NOTE Confidence: 0.98075086

00:04:40.700 --> 00:04:42.640 And, mismatch repair deficiency  
NOTE Confidence: 0.9983678

00:04:43.100 --> 00:04:44.080 is predominantly  
NOTE Confidence: 0.97528553

00:04:44.380 --> 00:04:45.360 tested using,  
NOTE Confidence: 0.8499693

00:04:45.900 --> 00:04:46.400 IHC.  
NOTE Confidence: 0.9841034

00:04:47.500 --> 00:04:48.540 But we do have other  
NOTE Confidence: 0.9841034

00:04:48.540 --> 00:04:50.140 techniques that can also detect  
NOTE Confidence: 0.9841034

00:04:50.140 --> 00:04:51.680 it. But MMR IHC  
NOTE Confidence: 0.97476536

00:04:52.035 --> 00:04:54.375 is a widely available technique  
NOTE Confidence: 0.97476536

00:04:54.515 --> 00:04:56.375 that most laboratories have,  
NOTE Confidence: 0.9984474

00:04:57.154 --> 00:04:58.695 and we're able and it's  
NOTE Confidence: 0.9645099

00:04:59.154 --> 00:05:00.615 fairly easy and reproducible.  
NOTE Confidence: 0.95817804

00:05:02.115 --> 00:05:02.835 So it's,  
NOTE Confidence: 0.98632693

00:05:03.475 --> 00:05:05.339 and it's fast. So we're  
NOTE Confidence: 0.98632693

00:05:05.339 --> 00:05:06.540 able to do that, and

NOTE Confidence: 0.98632693  
00:05:06.540 --> 00:05:07.500 that's one of the reasons  
NOTE Confidence: 0.98632693  
00:05:07.500 --> 00:05:08.460 why we start with that  
NOTE Confidence: 0.98632693  
00:05:08.460 --> 00:05:08.960 one.  
NOTE Confidence: 0.9773504  
00:05:10.380 --> 00:05:12.060 And then, you know, how  
NOTE Confidence: 0.9773504  
00:05:12.060 --> 00:05:13.580 often I'm just gonna move  
NOTE Confidence: 0.9773504  
00:05:13.580 --> 00:05:14.560 one of the panels  
NOTE Confidence: 0.95821255  
00:05:15.900 --> 00:05:17.020 up to my other screen  
NOTE Confidence: 0.95821255  
00:05:17.020 --> 00:05:18.540 here. Excuse me for just  
NOTE Confidence: 0.95821255  
00:05:18.540 --> 00:05:19.199 one moment.  
NOTE Confidence: 0.91719997  
00:05:22.005 --> 00:05:22.325 And,  
NOTE Confidence: 0.95151645  
00:05:24.565 --> 00:05:26.505 how how often is, MMRD  
NOTE Confidence: 0.9720499  
00:05:26.885 --> 00:05:28.105 found in esophageal,  
NOTE Confidence: 0.98699015  
00:05:28.565 --> 00:05:30.005 and gastric cancers? It's not  
NOTE Confidence: 0.98699015  
00:05:30.005 --> 00:05:32.105 very common. In one study,  
NOTE Confidence: 0.9992637  
00:05:32.565 --> 00:05:33.065 from  
NOTE Confidence: 0.9838263

00:05:33.610 --> 00:05:34.970 twenty sixteen, they found seven

NOTE Confidence: 0.9838263

00:05:34.970 --> 00:05:36.110 percent. I recently

NOTE Confidence: 0.98082536

00:05:36.890 --> 00:05:38.510 reviewed a Yale cohort,

NOTE Confidence: 0.9673039

00:05:40.250 --> 00:05:42.110 from twenty eighteen to,

NOTE Confidence: 0.9880874

00:05:42.490 --> 00:05:43.610 twenty twenty four, and we

NOTE Confidence: 0.9880874

00:05:43.610 --> 00:05:44.970 found about eleven percent in

NOTE Confidence: 0.9880874

00:05:44.970 --> 00:05:46.185 stomach cancer and

NOTE Confidence: 0.9745192

00:05:46.745 --> 00:05:48.125 a lot less in esophageal

NOTE Confidence: 0.9745192

00:05:48.345 --> 00:05:50.185 GJ cancers. But it is

NOTE Confidence: 0.9745192

00:05:50.185 --> 00:05:51.245 an important biomarker,

NOTE Confidence: 0.97731537

00:05:52.185 --> 00:05:53.464 that we need to identify

NOTE Confidence: 0.97731537

00:05:53.464 --> 00:05:54.505 because it does have this

NOTE Confidence: 0.97731537

00:05:54.505 --> 00:05:55.005 targeted

NOTE Confidence: 0.90288496

00:05:55.464 --> 00:05:56.205 targeted therapy

NOTE Confidence: 0.9995589

00:05:57.385 --> 00:05:57.885 option.

NOTE Confidence: 0.69215304

00:05:59.169 --> 00:05:59.669 Another

NOTE Confidence: 0.98079324  
00:05:59.970 --> 00:06:01.889 biomarker is HER2, and that's  
NOTE Confidence: 0.98079324  
00:06:01.889 --> 00:06:03.889 the old reliable biomarker. And  
NOTE Confidence: 0.98079324  
00:06:03.889 --> 00:06:05.669 the basis for targeted therapy  
NOTE Confidence: 0.98079324  
00:06:05.810 --> 00:06:06.470 is that,  
NOTE Confidence: 0.9948435  
00:06:07.089 --> 00:06:09.330 some tumor cells will have  
NOTE Confidence: 0.9948435  
00:06:09.330 --> 00:06:10.710 overexpression of HER2  
NOTE Confidence: 0.92335755  
00:06:11.250 --> 00:06:12.529 on their surface, and,  
NOTE Confidence: 0.9993231  
00:06:12.930 --> 00:06:14.495 this can be targeted  
NOTE Confidence: 0.82187974  
00:06:15.035 --> 00:06:16.095 using antibodies  
NOTE Confidence: 0.9976213  
00:06:16.555 --> 00:06:18.255 or antibody drug conjugates.  
NOTE Confidence: 0.98452663  
00:06:20.714 --> 00:06:22.154 And, again, we use a  
NOTE Confidence: 0.98452663  
00:06:22.154 --> 00:06:23.455 method of IHC.  
NOTE Confidence: 0.95738316  
00:06:24.075 --> 00:06:26.154 That's the main method of  
NOTE Confidence: 0.95738316  
00:06:26.154 --> 00:06:26.654 finding  
NOTE Confidence: 0.52814007  
00:06:27.035 --> 00:06:27.535 this  
NOTE Confidence: 0.99892807

00:06:30.800 --> 00:06:31.300 biomarker  
NOTE Confidence: 0.9721018

00:06:32.480 --> 00:06:34.320 on tumor cells. And in  
NOTE Confidence: 0.9721018

00:06:34.320 --> 00:06:36.000 terms of how often we  
NOTE Confidence: 0.9721018

00:06:36.000 --> 00:06:38.400 see it, probably seen in  
NOTE Confidence: 0.9721018

00:06:38.400 --> 00:06:38.900 about,  
NOTE Confidence: 0.9445411

00:06:40.800 --> 00:06:42.960 fifty to sixty percent of,  
NOTE Confidence: 0.935698

00:06:43.685 --> 00:06:45.125 GJ cancers. Kind of depends  
NOTE Confidence: 0.935698

00:06:45.125 --> 00:06:46.245 on which study you read,  
NOTE Confidence: 0.935698

00:06:46.245 --> 00:06:47.065 what cohort.  
NOTE Confidence: 0.989855

00:06:47.525 --> 00:06:49.045 It's been, this has been  
NOTE Confidence: 0.989855

00:06:49.045 --> 00:06:50.964 a biomarker that has been  
NOTE Confidence: 0.989855

00:06:50.964 --> 00:06:52.404 in practice for a number  
NOTE Confidence: 0.989855

00:06:52.404 --> 00:06:53.365 of years, and you can  
NOTE Confidence: 0.989855

00:06:53.365 --> 00:06:55.045 you can see that the  
NOTE Confidence: 0.989855

00:06:55.045 --> 00:06:56.665 use of, this biomarker,  
NOTE Confidence: 0.9994832

00:06:57.445 --> 00:06:57.945 expression

NOTE Confidence: 0.9882105  
00:06:58.390 --> 00:07:00.390 testing has increased from, you  
NOTE Confidence: 0.9882105  
00:07:00.390 --> 00:07:02.230 know, ten, fifteen years ago  
NOTE Confidence: 0.9882105  
00:07:02.230 --> 00:07:02.710 to,  
NOTE Confidence: 0.999225  
00:07:03.910 --> 00:07:04.650 more recently.  
NOTE Confidence: 0.97302806  
00:07:05.750 --> 00:07:07.750 And so we have a  
NOTE Confidence: 0.97302806  
00:07:07.750 --> 00:07:09.910 IHC component, and we will  
NOTE Confidence: 0.97302806  
00:07:09.910 --> 00:07:12.230 perform FISH testing if, the  
NOTE Confidence: 0.97302806  
00:07:12.230 --> 00:07:14.074 IHC shows a two plus  
NOTE Confidence: 0.9898527  
00:07:14.455 --> 00:07:16.055 pattern. And the exciting thing  
NOTE Confidence: 0.9898527  
00:07:16.055 --> 00:07:17.335 about HER2 is that even  
NOTE Confidence: 0.9898527  
00:07:17.335 --> 00:07:18.134 though it's been around for  
NOTE Confidence: 0.9898527  
00:07:18.134 --> 00:07:19.014 a long time and we've  
NOTE Confidence: 0.9898527  
00:07:19.014 --> 00:07:20.134 been able to target it  
NOTE Confidence: 0.9898527  
00:07:20.134 --> 00:07:21.995 using monoclonal antibodies,  
NOTE Confidence: 0.98378515  
00:07:22.535 --> 00:07:23.675 now there is,  
NOTE Confidence: 0.77282774

00:07:24.134 --> 00:07:24.634 newer,  
NOTE Confidence: 0.9858191

00:07:25.095 --> 00:07:26.694 data coming out that,  
NOTE Confidence: 0.923552

00:07:27.095 --> 00:07:27.595 the  
NOTE Confidence: 0.99728346

00:07:27.900 --> 00:07:28.800 antibody conjugates  
NOTE Confidence: 0.9804108

00:07:29.820 --> 00:07:31.180 can use can be also  
NOTE Confidence: 0.9804108

00:07:31.180 --> 00:07:31.680 used,  
NOTE Confidence: 0.97055274

00:07:32.300 --> 00:07:34.220 in even, patients that have  
NOTE Confidence: 0.97055274

00:07:34.220 --> 00:07:35.120 HER2 low,  
NOTE Confidence: 0.99607414

00:07:35.820 --> 00:07:37.100 one plus or two plus  
NOTE Confidence: 0.99607414

00:07:37.100 --> 00:07:37.600 findings.  
NOTE Confidence: 0.99572474

00:07:37.980 --> 00:07:39.100 So it it is something  
NOTE Confidence: 0.99572474

00:07:39.100 --> 00:07:40.060 that is going to be  
NOTE Confidence: 0.99572474

00:07:40.060 --> 00:07:41.580 able to be expanded to  
NOTE Confidence: 0.99572474

00:07:41.580 --> 00:07:42.880 other, patients.  
NOTE Confidence: 0.9572923

00:07:45.215 --> 00:07:46.254 PDL one. I wish I  
NOTE Confidence: 0.9572923

00:07:46.254 --> 00:07:47.854 could stop talking about PDL

NOTE Confidence: 0.9572923  
00:07:47.854 --> 00:07:48.354 one.  
NOTE Confidence: 0.99793065  
00:07:48.735 --> 00:07:50.014 This is the problem child  
NOTE Confidence: 0.99793065  
00:07:50.014 --> 00:07:51.314 for the IHC biomarkers.  
NOTE Confidence: 0.97878194  
00:07:51.854 --> 00:07:53.615 The biological basis for targeted  
NOTE Confidence: 0.97878194  
00:07:53.615 --> 00:07:54.735 therapy is the same.  
NOTE Confidence: 0.97717226  
00:07:55.375 --> 00:07:57.155 It's very similar to MMR  
NOTE Confidence: 0.9120655  
00:07:57.775 --> 00:07:59.880 where, blockade of the PDL  
NOTE Confidence: 0.9120655  
00:07:59.880 --> 00:08:02.540 one, PD one pathway can,  
NOTE Confidence: 0.7602568  
00:08:04.919 --> 00:08:05.419 activate,  
NOTE Confidence: 0.9969066  
00:08:05.960 --> 00:08:07.900 the immune system to eliminate  
NOTE Confidence: 0.9969066  
00:08:07.960 --> 00:08:08.780 tumor cells.  
NOTE Confidence: 0.9728731  
00:08:09.320 --> 00:08:11.660 We use the, PDL one  
NOTE Confidence: 0.97828597  
00:08:13.575 --> 00:08:14.775 twenty two c three,  
NOTE Confidence: 0.9759977  
00:08:15.255 --> 00:08:16.795 antibody, which is the FDA  
NOTE Confidence: 0.9759977  
00:08:16.935 --> 00:08:17.435 approved,  
NOTE Confidence: 0.87533945

00:08:17.815 --> 00:08:18.315 method.  
NOTE Confidence: 0.9702979

00:08:19.015 --> 00:08:19.495 And,  
NOTE Confidence: 0.9783713

00:08:19.895 --> 00:08:21.575 we perform what's called the  
NOTE Confidence: 0.9783713

00:08:21.575 --> 00:08:23.115 CPS or combined positive,  
NOTE Confidence: 0.9944749

00:08:23.575 --> 00:08:25.255 score. So that's the total  
NOTE Confidence: 0.9944749

00:08:25.255 --> 00:08:26.615 number of PDL one staining  
NOTE Confidence: 0.9944749

00:08:26.615 --> 00:08:27.975 cells in a tumor section  
NOTE Confidence: 0.9944749

00:08:27.975 --> 00:08:29.590 that includes tumor cells, mononuclear  
NOTE Confidence: 0.9611945

00:08:30.210 --> 00:08:32.290 inflammatory cells over the total  
NOTE Confidence: 0.9611945

00:08:32.290 --> 00:08:33.570 number of tumor cells times  
NOTE Confidence: 0.9611945

00:08:33.570 --> 00:08:34.390 one hundred.  
NOTE Confidence: 0.98733526

00:08:35.090 --> 00:08:35.590 And,  
NOTE Confidence: 0.94194007

00:08:36.050 --> 00:08:37.590 the problem is that,  
NOTE Confidence: 0.9912446

00:08:39.890 --> 00:08:42.470 the FDA approved assay is  
NOTE Confidence: 0.978229

00:08:43.524 --> 00:08:45.684 is, the positivity cutoff is  
NOTE Confidence: 0.978229

00:08:45.684 --> 00:08:47.285 determined to be CPS greater

NOTE Confidence: 0.978229  
00:08:47.285 --> 00:08:48.024 than one.  
NOTE Confidence: 0.9832333  
00:08:48.885 --> 00:08:49.865 But in trials,  
NOTE Confidence: 0.9811099  
00:08:50.404 --> 00:08:51.925 in certain trials, CPS greater  
NOTE Confidence: 0.9811099  
00:08:51.925 --> 00:08:53.225 than five was actually,  
NOTE Confidence: 0.9694088  
00:08:54.404 --> 00:08:55.785 much more, reliable  
NOTE Confidence: 0.93306255  
00:08:56.165 --> 00:08:56.665 and,  
NOTE Confidence: 0.9448706  
00:08:57.045 --> 00:08:57.545 effective.  
NOTE Confidence: 0.99573326  
00:08:57.925 --> 00:08:58.584 And so  
NOTE Confidence: 0.9445783  
00:08:59.220 --> 00:09:00.660 it's it's difficult. And the  
NOTE Confidence: 0.9445783  
00:09:00.660 --> 00:09:02.120 CPS score of one,  
NOTE Confidence: 0.95181733  
00:09:02.740 --> 00:09:04.740 is quite subtle, and there  
NOTE Confidence: 0.95181733  
00:09:04.740 --> 00:09:06.100 have been umpteen number of  
NOTE Confidence: 0.95181733  
00:09:06.100 --> 00:09:07.559 studies showing that pathologists  
NOTE Confidence: 0.9902722  
00:09:07.940 --> 00:09:09.300 are really not very good  
NOTE Confidence: 0.9902722  
00:09:09.300 --> 00:09:10.199 at being reproducible,  
NOTE Confidence: 0.96482563

00:09:11.455 --> 00:09:11.955 across,  
NOTE Confidence: 0.9624893

00:09:12.415 --> 00:09:13.615 pathologists. And one of the  
NOTE Confidence: 0.9624893

00:09:13.615 --> 00:09:15.054 most recent papers on that  
NOTE Confidence: 0.9624893

00:09:15.054 --> 00:09:16.195 is from our group,  
NOTE Confidence: 0.7565749

00:09:16.975 --> 00:09:18.495 David Rem and Sujian Zhang  
NOTE Confidence: 0.7565749

00:09:18.495 --> 00:09:20.755 group who are, our pathologists  
NOTE Confidence: 0.7565749

00:09:20.895 --> 00:09:22.255 here who've looked at that.  
NOTE Confidence: 0.9886328

00:09:22.575 --> 00:09:23.774 It is more reliable at  
NOTE Confidence: 0.9886328

00:09:23.774 --> 00:09:25.270 the higher cutoffs. So, you  
NOTE Confidence: 0.9886328

00:09:25.270 --> 00:09:26.550 know, CPS of five or  
NOTE Confidence: 0.9886328

00:09:26.550 --> 00:09:28.170 more is probably more reliable  
NOTE Confidence: 0.9886328

00:09:28.309 --> 00:09:28.970 as a result.  
NOTE Confidence: 0.9575868

00:09:29.429 --> 00:09:30.710 And that could explain this  
NOTE Confidence: 0.9575868

00:09:30.710 --> 00:09:31.450 this variability,  
NOTE Confidence: 0.99849796

00:09:31.990 --> 00:09:33.190 could explain some of the  
NOTE Confidence: 0.99849796

00:09:33.190 --> 00:09:34.170 lack of efficacy,

NOTE Confidence: 0.9496925  
00:09:34.710 --> 00:09:35.210 for,  
NOTE Confidence: 0.99949694  
00:09:35.830 --> 00:09:36.330 trials  
NOTE Confidence: 0.9351942  
00:09:36.710 --> 00:09:37.529 in this setting.  
NOTE Confidence: 0.95940655  
00:09:39.135 --> 00:09:40.654 So claudan eighteen is the  
NOTE Confidence: 0.95940655  
00:09:40.654 --> 00:09:41.795 new kid on the block,  
NOTE Confidence: 0.9940329  
00:09:42.255 --> 00:09:43.315 and I'm going to  
NOTE Confidence: 0.9885403  
00:09:43.774 --> 00:09:44.495 talk about this in a  
NOTE Confidence: 0.9885403  
00:09:44.495 --> 00:09:46.195 little bit more detail. So,  
NOTE Confidence: 0.9974685  
00:09:46.735 --> 00:09:49.315 basically, claudan eighteen is a  
NOTE Confidence: 0.9718821  
00:09:50.350 --> 00:09:50.850 protein,  
NOTE Confidence: 0.8938904  
00:09:51.150 --> 00:09:53.150 that's a transmembrane protein that,  
NOTE Confidence: 0.8938904  
00:09:53.390 --> 00:09:54.770 forms the tight junction  
NOTE Confidence: 0.96643555  
00:09:55.550 --> 00:09:57.230 between cells. And normally, in  
NOTE Confidence: 0.96643555  
00:09:57.230 --> 00:09:58.850 the normal tissues, it's expressed,  
NOTE Confidence: 0.96643555  
00:09:59.070 --> 00:10:00.030 and you can see that  
NOTE Confidence: 0.96643555

00:10:00.030 --> 00:10:01.230 it's in the tight junctions

NOTE Confidence: 0.96643555

00:10:01.230 --> 00:10:03.309 between the epithelial cells. But

NOTE Confidence: 0.96643555

00:10:03.309 --> 00:10:05.090 once, cancer cell,

NOTE Confidence: 0.94696593

00:10:08.804 --> 00:10:10.165 is, you know, goes through

NOTE Confidence: 0.94696593

00:10:10.165 --> 00:10:10.665 carcinogenesis,

NOTE Confidence: 0.9796794

00:10:10.965 --> 00:10:12.005 becomes a cancer cell, the

NOTE Confidence: 0.9796794

00:10:12.005 --> 00:10:14.184 claudin eighteen, can be retained

NOTE Confidence: 0.9796794

00:10:14.245 --> 00:10:15.205 on the surface of those

NOTE Confidence: 0.9796794

00:10:15.205 --> 00:10:16.404 cells, and it is also

NOTE Confidence: 0.9796794

00:10:16.404 --> 00:10:18.165 exposed because the tumor cells

NOTE Confidence: 0.9796794

00:10:18.165 --> 00:10:19.100 no longer stick to each

NOTE Confidence: 0.9796794

00:10:19.100 --> 00:10:20.140 other in the same way

NOTE Confidence: 0.9796794

00:10:20.140 --> 00:10:22.480 as native epithelial cells.

NOTE Confidence: 0.85140157

00:10:23.020 --> 00:10:23.520 And,

NOTE Confidence: 0.9723533

00:10:25.020 --> 00:10:26.540 and then looking at more

NOTE Confidence: 0.9723533

00:10:26.540 --> 00:10:27.840 detail at the protein,

NOTE Confidence: 0.97165424

00:10:28.460 --> 00:10:30.060 there's a loop, with a

NOTE Confidence: 0.97165424

00:10:30.060 --> 00:10:31.660 couple of binding sites where

NOTE Confidence: 0.97165424

00:10:31.660 --> 00:10:33.820 antibodies can be, used to

NOTE Confidence: 0.97165424

00:10:33.820 --> 00:10:35.384 target that particular,

NOTE Confidence: 0.9803566

00:10:37.444 --> 00:10:37.944 protein.

NOTE Confidence: 0.979602

00:10:39.605 --> 00:10:40.105 And,

NOTE Confidence: 0.9926457

00:10:40.485 --> 00:10:41.464 in terms of,

NOTE Confidence: 0.9742347

00:10:42.245 --> 00:10:43.125 what do we know about

NOTE Confidence: 0.9742347

00:10:43.125 --> 00:10:45.125 expression of claudine eighteen point

NOTE Confidence: 0.9742347

00:10:45.125 --> 00:10:46.725 two in esophagus or,

NOTE Confidence: 0.8807931

00:10:47.204 --> 00:10:48.184 GJ cancers?

NOTE Confidence: 0.8778198

00:10:48.565 --> 00:10:48.884 And,

NOTE Confidence: 0.9750722

00:10:50.790 --> 00:10:52.550 based on a in one

NOTE Confidence: 0.9750722

00:10:52.550 --> 00:10:54.010 study, based on a positivity

NOTE Confidence: 0.98566717

00:10:54.390 --> 00:10:56.309 of, greater than seventy five

NOTE Confidence: 0.98566717

00:10:56.309 --> 00:10:57.510 percent two plus or three  
NOTE Confidence: 0.98566717

00:10:57.510 --> 00:10:58.250 plus expression,  
NOTE Confidence: 0.9817666

00:10:58.870 --> 00:11:00.230 we find positivity in about  
NOTE Confidence: 0.9817666

00:11:00.230 --> 00:11:01.910 thirty eight percent of, of  
NOTE Confidence: 0.9817666

00:11:01.910 --> 00:11:03.029 cancers. And you can kind  
NOTE Confidence: 0.9817666

00:11:03.029 --> 00:11:04.630 of see that, this high,  
NOTE Confidence: 0.9817666

00:11:04.870 --> 00:11:05.370 positivity  
NOTE Confidence: 0.9967383

00:11:06.285 --> 00:11:06.785 here.  
NOTE Confidence: 0.9433094

00:11:08.204 --> 00:11:08.684 And,  
NOTE Confidence: 0.9804434

00:11:09.245 --> 00:11:10.764 this was the cutoff that  
NOTE Confidence: 0.9804434

00:11:10.764 --> 00:11:11.884 was used for the study  
NOTE Confidence: 0.9804434

00:11:11.884 --> 00:11:13.345 to look at, zolventuximab,  
NOTE Confidence: 0.98754096

00:11:15.485 --> 00:11:16.605 which is the the main  
NOTE Confidence: 0.98754096

00:11:16.605 --> 00:11:18.545 antibody that's targeting this pathway.  
NOTE Confidence: 0.98754096

00:11:18.764 --> 00:11:20.524 But there are other novel,  
NOTE Confidence: 0.98754096

00:11:20.764 --> 00:11:21.264 antibodies

NOTE Confidence: 0.84343433

00:11:21.565 --> 00:11:21.870 that,

NOTE Confidence: 0.6674051

00:11:24.309 --> 00:11:24.850 and antibody,

NOTE Confidence: 0.99855953

00:11:25.309 --> 00:11:27.410 drug conjugates that could potentially

NOTE Confidence: 0.99855953

00:11:27.550 --> 00:11:29.809 be useful to target lower

NOTE Confidence: 0.99855953

00:11:29.870 --> 00:11:30.850 level expression

NOTE Confidence: 0.9992181

00:11:31.390 --> 00:11:32.850 of this particular biomarker.

NOTE Confidence: 0.98577404

00:11:33.150 --> 00:11:34.750 So if you include those,

NOTE Confidence: 0.98577404

00:11:34.750 --> 00:11:35.870 then you're you're adding a

NOTE Confidence: 0.98577404

00:11:35.870 --> 00:11:36.405 lot more,

NOTE Confidence: 0.99892867

00:11:37.045 --> 00:11:38.965 patients to the possibility of

NOTE Confidence: 0.99892867

00:11:38.965 --> 00:11:40.265 getting targeted treatment.

NOTE Confidence: 0.997714

00:11:40.645 --> 00:11:41.525 And I just I have

NOTE Confidence: 0.997714

00:11:41.525 --> 00:11:42.405 a summary here of all

NOTE Confidence: 0.997714

00:11:42.405 --> 00:11:43.525 the phase two and three

NOTE Confidence: 0.997714

00:11:43.525 --> 00:11:45.125 clinical trials from one of

NOTE Confidence: 0.997714

00:11:45.125 --> 00:11:46.105 the recent reviews  
NOTE Confidence: 0.9983155

00:11:46.485 --> 00:11:47.845 for anybody who's interested in  
NOTE Confidence: 0.9983155

00:11:47.845 --> 00:11:48.585 more detail.  
NOTE Confidence: 0.9774768

00:11:49.410 --> 00:11:50.209 And so what do we  
NOTE Confidence: 0.9774768

00:11:50.209 --> 00:11:51.570 do at Yale for claudine  
NOTE Confidence: 0.9774768

00:11:51.570 --> 00:11:52.790 eighteen point two?  
NOTE Confidence: 0.9620447

00:11:53.410 --> 00:11:54.690 So we, again, use the  
NOTE Confidence: 0.9620447

00:11:54.690 --> 00:11:55.670 FDA approved,  
NOTE Confidence: 0.9471323

00:11:56.690 --> 00:11:57.190 assay,  
NOTE Confidence: 0.9799203

00:11:57.730 --> 00:11:59.170 which is the forty three  
NOTE Confidence: 0.9799203

00:11:59.170 --> 00:12:00.709 dash fourteen a,  
NOTE Confidence: 0.99492157

00:12:01.490 --> 00:12:01.990 antibody.  
NOTE Confidence: 0.88842785

00:12:03.165 --> 00:12:03.665 And,  
NOTE Confidence: 0.9805016

00:12:04.605 --> 00:12:06.365 we, when we report the  
NOTE Confidence: 0.9805016

00:12:06.365 --> 00:12:08.205 results of our claudan eighteen  
NOTE Confidence: 0.9805016

00:12:08.205 --> 00:12:10.545 staining, we report it in

NOTE Confidence: 0.6107034

00:12:11.165 --> 00:12:11.665 categories.

NOTE Confidence: 0.9993973

00:12:12.205 --> 00:12:13.645 So greater than seventy five

NOTE Confidence: 0.9993973

00:12:13.645 --> 00:12:14.145 percent

NOTE Confidence: 0.9842363

00:12:15.660 --> 00:12:17.760 positivity, fifty to seventy five,

NOTE Confidence: 0.9842363

00:12:18.059 --> 00:12:19.500 twenty to forty nine, one

NOTE Confidence: 0.9842363

00:12:19.500 --> 00:12:21.040 to nineteen, and zero percent.

NOTE Confidence: 0.9842363

00:12:21.340 --> 00:12:23.260 And that's because we wanna

NOTE Confidence: 0.9842363

00:12:23.260 --> 00:12:24.960 be ready for those newer,

NOTE Confidence: 0.9973297

00:12:26.220 --> 00:12:27.600 antibody drug conjugates

NOTE Confidence: 0.9935033

00:12:28.495 --> 00:12:30.675 and bispecific antibodies to see,

NOTE Confidence: 0.9994837

00:12:31.375 --> 00:12:33.395 if these patients would benefit

NOTE Confidence: 0.9994837

00:12:33.455 --> 00:12:35.235 from those in the future.

NOTE Confidence: 0.9801394

00:12:35.775 --> 00:12:36.735 And, again, you can kind

NOTE Confidence: 0.9801394

00:12:36.735 --> 00:12:37.875 of see what the spectrum

NOTE Confidence: 0.9801394

00:12:38.095 --> 00:12:39.475 of staining is.

NOTE Confidence: 0.99938077

00:12:40.015 --> 00:12:40.835 It's a relatively  
NOTE Confidence: 0.9444163

00:12:42.940 --> 00:12:43.900 easy antibody,  
NOTE Confidence: 0.9739626

00:12:44.380 --> 00:12:45.740 to read. And then we  
NOTE Confidence: 0.9739626

00:12:45.740 --> 00:12:46.860 always look for our normal  
NOTE Confidence: 0.9739626

00:12:46.860 --> 00:12:48.079 controls in the background,  
NOTE Confidence: 0.99275035

00:12:48.459 --> 00:12:48.959 mucosa.  
NOTE Confidence: 0.99023485

00:12:49.660 --> 00:12:51.500 Okay. So that's the basically,  
NOTE Confidence: 0.99023485

00:12:51.500 --> 00:12:52.540 the end of my talk.  
NOTE Confidence: 0.99023485

00:12:52.540 --> 00:12:54.059 I've described all four of  
NOTE Confidence: 0.99023485

00:12:54.059 --> 00:12:54.880 these biomarkers  
NOTE Confidence: 0.98752797

00:12:55.904 --> 00:12:56.345 and,  
NOTE Confidence: 0.99752516

00:12:56.785 --> 00:12:57.845 what they're targeting  
NOTE Confidence: 0.9883469

00:12:58.225 --> 00:13:00.084 and how we assess them.  
NOTE Confidence: 0.9564303

00:13:00.704 --> 00:13:01.204 And,  
NOTE Confidence: 0.93857574

00:13:02.144 --> 00:13:03.345 this is already out of  
NOTE Confidence: 0.93857574

00:13:03.345 --> 00:13:05.105 date because we do have

NOTE Confidence: 0.93857574

00:13:05.105 --> 00:13:07.505 a emerging predictive biomarker, FGF

NOTE Confidence: 0.93857574

00:13:07.505 --> 00:13:08.800 r two b that's coming

NOTE Confidence: 0.93857574

00:13:08.800 --> 00:13:09.300 up.

NOTE Confidence: 0.97064817

00:13:10.080 --> 00:13:12.399 And, we are getting ready

NOTE Confidence: 0.97064817

00:13:12.399 --> 00:13:14.080 to have that IHC testing

NOTE Confidence: 0.97064817

00:13:14.080 --> 00:13:16.080 method, brought on board for

NOTE Confidence: 0.97064817

00:13:16.080 --> 00:13:17.120 us. So this is just

NOTE Confidence: 0.97064817

00:13:17.120 --> 00:13:17.860 stay tuned

NOTE Confidence: 0.99927604

00:13:18.399 --> 00:13:19.940 about this in the future.

NOTE Confidence: 0.9674623

00:13:20.554 --> 00:13:21.595 And so here I have

NOTE Confidence: 0.9674623

00:13:21.595 --> 00:13:23.355 a summary table for anyone

NOTE Confidence: 0.9674623

00:13:23.355 --> 00:13:24.175 who's interested.

NOTE Confidence: 0.94646955

00:13:25.035 --> 00:13:25.535 So,

NOTE Confidence: 0.9855321

00:13:25.995 --> 00:13:28.154 again, we have our four

NOTE Confidence: 0.9855321

00:13:28.154 --> 00:13:29.675 IHC biomarkers that we are

NOTE Confidence: 0.9855321

00:13:29.675 --> 00:13:31.774 performing as a reflex workflow

NOTE Confidence: 0.9855321

00:13:32.074 --> 00:13:33.595 so that we're providing this,

NOTE Confidence: 0.99979657

00:13:33.995 --> 00:13:34.495 information

NOTE Confidence: 0.99909633

00:13:34.954 --> 00:13:35.694 at diagnosis

NOTE Confidence: 0.965336

00:13:36.800 --> 00:13:37.300 and,

NOTE Confidence: 0.97433156

00:13:38.720 --> 00:13:39.920 for, you know, the the

NOTE Confidence: 0.97433156

00:13:39.920 --> 00:13:40.800 various, uses,

NOTE Confidence: 0.9579641

00:13:42.880 --> 00:13:44.959 clinically and just, you know,

NOTE Confidence: 0.9579641

00:13:44.959 --> 00:13:46.559 again, just the summary chart

NOTE Confidence: 0.9579641

00:13:46.559 --> 00:13:47.600 of all the information I

NOTE Confidence: 0.9579641

00:13:47.600 --> 00:13:49.360 talked about today. And I'll

NOTE Confidence: 0.9579641

00:13:49.360 --> 00:13:51.184 stop there, and I'm happy

NOTE Confidence: 0.9579641

00:13:51.184 --> 00:13:52.225 to take any questions. And

NOTE Confidence: 0.9579641

00:13:52.225 --> 00:13:53.425 I I apologize if I

NOTE Confidence: 0.9579641

00:13:53.425 --> 00:13:54.645 went a little too long.

NOTE Confidence: 0.87889457

00:13:55.985 --> 00:13:57.025 Let's see. Thanks. That was

NOTE Confidence: 0.87889457  
00:13:57.025 --> 00:13:58.304 good. Doctor Gibson, that was  
NOTE Confidence: 0.87889457  
00:13:58.304 --> 00:13:59.905 a great talk. I can,  
NOTE Confidence: 0.87889457  
00:14:00.304 --> 00:14:01.445 may I encourage  
NOTE Confidence: 0.8863809  
00:14:02.304 --> 00:14:03.825 the viewers, listeners to,  
NOTE Confidence: 0.97527695  
00:14:04.580 --> 00:14:05.460 put in any questions that  
NOTE Confidence: 0.97527695  
00:14:05.460 --> 00:14:06.500 you have into the chat  
NOTE Confidence: 0.97527695  
00:14:06.500 --> 00:14:07.460 or into the q and  
NOTE Confidence: 0.97527695  
00:14:07.460 --> 00:14:08.740 a box, and we'll try  
NOTE Confidence: 0.97527695  
00:14:08.740 --> 00:14:09.640 and do them,  
NOTE Confidence: 0.960079  
00:14:10.340 --> 00:14:11.620 either now or at the  
NOTE Confidence: 0.960079  
00:14:11.620 --> 00:14:13.059 end of the the session  
NOTE Confidence: 0.960079  
00:14:13.059 --> 00:14:14.179 when after all after all  
NOTE Confidence: 0.960079  
00:14:14.179 --> 00:14:15.480 four of us speak because  
NOTE Confidence: 0.960079  
00:14:15.540 --> 00:14:16.260 I think it'll be quite  
NOTE Confidence: 0.960079  
00:14:16.260 --> 00:14:17.480 helpful to have a multidisciplinary  
NOTE Confidence: 0.99984324

00:14:18.020 --> 00:14:18.520 discussion  
NOTE Confidence: 0.99645317

00:14:18.900 --> 00:14:19.620 at the end of all  
NOTE Confidence: 0.99645317

00:14:19.620 --> 00:14:20.280 the chats.  
NOTE Confidence: 0.97021353

00:14:21.755 --> 00:14:23.194 If there are no emerging  
NOTE Confidence: 0.97021353

00:14:23.194 --> 00:14:24.555 questions, maybe we'll move on  
NOTE Confidence: 0.97021353

00:14:24.555 --> 00:14:26.795 to, doctor Baufa, who's gonna  
NOTE Confidence: 0.97021353

00:14:26.795 --> 00:14:27.755 give us an update from  
NOTE Confidence: 0.97021353

00:14:27.755 --> 00:14:28.975 the surgical perspective.  
NOTE Confidence: 0.9673576

00:14:38.279 --> 00:14:39.560 Hi there. Thank you very  
NOTE Confidence: 0.9673576

00:14:39.560 --> 00:14:41.240 much. Dan Boffa. I'm one  
NOTE Confidence: 0.9673576

00:14:41.240 --> 00:14:41.560 of the,  
NOTE Confidence: 0.97818285

00:14:42.279 --> 00:14:43.420 thoracic surgeons,  
NOTE Confidence: 0.96657246

00:14:43.959 --> 00:14:45.399 here at Yale. And I'm  
NOTE Confidence: 0.96657246

00:14:45.399 --> 00:14:46.379 just gonna talk  
NOTE Confidence: 0.985286

00:14:47.445 --> 00:14:49.525 briefly about, a couple of  
NOTE Confidence: 0.985286

00:14:49.525 --> 00:14:51.385 aspects of the surgical management

NOTE Confidence: 0.985286

00:14:51.525 --> 00:14:52.185 of esophageal

NOTE Confidence: 0.999208

00:14:52.485 --> 00:14:52.985 cancer.

NOTE Confidence: 0.73267674

00:14:54.685 --> 00:14:55.185 So,

NOTE Confidence: 0.9128021

00:14:57.205 --> 00:14:58.805 may I have a couple

NOTE Confidence: 0.9128021

00:14:58.805 --> 00:14:59.545 of disclosures?

NOTE Confidence: 0.93017465

00:15:00.730 --> 00:15:02.250 This is what people think

NOTE Confidence: 0.93017465

00:15:02.250 --> 00:15:02.330 about,

NOTE Confidence: 0.863695

00:15:03.450 --> 00:15:05.470 when we mention an esophagectomy

NOTE Confidence: 0.9167757

00:15:05.850 --> 00:15:07.610 for esophageal cancer, that it's

NOTE Confidence: 0.9167757

00:15:07.610 --> 00:15:09.630 a extremely dangerous thing,

NOTE Confidence: 0.97148126

00:15:10.170 --> 00:15:11.790 to deal with an extremely

NOTE Confidence: 0.97148126

00:15:11.850 --> 00:15:12.830 dangerous problem.

NOTE Confidence: 0.9052628

00:15:13.505 --> 00:15:14.005 And,

NOTE Confidence: 0.9867225

00:15:14.385 --> 00:15:15.745 hopefully, I can convince you

NOTE Confidence: 0.9867225

00:15:15.745 --> 00:15:16.865 at at some level that

NOTE Confidence: 0.9867225

00:15:16.865 --> 00:15:19.205 it's become infinitely safer,  
NOTE Confidence: 0.9597896

00:15:20.065 --> 00:15:20.565 and,  
NOTE Confidence: 0.99051774

00:15:21.025 --> 00:15:21.685 the recovery  
NOTE Confidence: 0.6904079

00:15:22.705 --> 00:15:23.205 is,  
NOTE Confidence: 0.97373

00:15:23.825 --> 00:15:24.945 is much different now with  
NOTE Confidence: 0.97373

00:15:24.945 --> 00:15:25.925 minimally invasive,  
NOTE Confidence: 0.9626663

00:15:26.385 --> 00:15:26.885 approaches.  
NOTE Confidence: 0.9872117

00:15:27.510 --> 00:15:28.390 But I do think it's  
NOTE Confidence: 0.9872117

00:15:28.390 --> 00:15:29.610 an important question.  
NOTE Confidence: 0.9987955

00:15:29.910 --> 00:15:30.410 And  
NOTE Confidence: 0.95505303

00:15:30.950 --> 00:15:31.450 and  
NOTE Confidence: 0.9830635

00:15:31.990 --> 00:15:32.950 do we need to do  
NOTE Confidence: 0.9830635

00:15:32.950 --> 00:15:33.690 an esophagectomy  
NOTE Confidence: 0.99002016

00:15:34.710 --> 00:15:35.990 in everyone? And I think  
NOTE Confidence: 0.99002016

00:15:35.990 --> 00:15:36.950 that some of the most  
NOTE Confidence: 0.99002016

00:15:36.950 --> 00:15:37.450 exciting,

NOTE Confidence: 0.9997527  
00:15:38.950 --> 00:15:40.710 trial data that's been coming  
NOTE Confidence: 0.9997527  
00:15:40.710 --> 00:15:41.210 through  
NOTE Confidence: 0.99137866  
00:15:41.665 --> 00:15:43.045 is looking at things,  
NOTE Confidence: 0.93771243  
00:15:43.505 --> 00:15:44.725 that maybe we,  
NOTE Confidence: 0.99976397  
00:15:45.105 --> 00:15:46.785 can be more selective in  
NOTE Confidence: 0.99976397  
00:15:46.785 --> 00:15:47.525 how we  
NOTE Confidence: 0.9618409  
00:15:48.065 --> 00:15:49.525 apply some of the traditional  
NOTE Confidence: 0.9618409  
00:15:49.585 --> 00:15:51.665 treatments as well as, some  
NOTE Confidence: 0.9618409  
00:15:51.665 --> 00:15:53.185 of the the newer treatments.  
NOTE Confidence: 0.9618409  
00:15:53.185 --> 00:15:53.685 So  
NOTE Confidence: 0.96547395  
00:15:55.020 --> 00:15:56.700 this I'm gonna focus on  
NOTE Confidence: 0.96547395  
00:15:56.700 --> 00:15:58.720 the the Saino trial, which  
NOTE Confidence: 0.96547395  
00:15:58.940 --> 00:16:00.300 is a phase three,  
NOTE Confidence: 0.9672387  
00:16:00.700 --> 00:16:01.200 trial,  
NOTE Confidence: 0.917499  
00:16:01.900 --> 00:16:03.120 that looked at,  
NOTE Confidence: 0.9228478

00:16:04.779 --> 00:16:05.840 selecting people  
NOTE Confidence: 0.9995327

00:16:06.315 --> 00:16:07.695 to not go  
NOTE Confidence: 0.9581394

00:16:08.075 --> 00:16:10.095 on to surgery after receiving,  
NOTE Confidence: 0.8693345

00:16:11.275 --> 00:16:13.855 the cross regimen of induction,  
NOTE Confidence: 0.9559846

00:16:14.395 --> 00:16:14.895 chemoradiation.  
NOTE Confidence: 0.9497531

00:16:16.635 --> 00:16:17.935 Before that, though,  
NOTE Confidence: 0.9891681

00:16:18.555 --> 00:16:19.995 you have to know that  
NOTE Confidence: 0.9891681

00:16:19.995 --> 00:16:21.900 the person has experienced a  
NOTE Confidence: 0.9891681

00:16:21.900 --> 00:16:24.160 complete clinical response. And so  
NOTE Confidence: 0.9700852

00:16:24.620 --> 00:16:25.820 there there was a trial  
NOTE Confidence: 0.9700852

00:16:25.820 --> 00:16:27.020 before the trial, which is  
NOTE Confidence: 0.9700852

00:16:27.020 --> 00:16:29.280 the presaino trial, which was  
NOTE Confidence: 0.9586981

00:16:29.740 --> 00:16:31.440 looking at, could you tell  
NOTE Confidence: 0.99963

00:16:31.820 --> 00:16:33.500 if people had been cleared  
NOTE Confidence: 0.99963

00:16:33.500 --> 00:16:34.480 of their disease  
NOTE Confidence: 0.95273966

00:16:37.425 --> 00:16:38.865 after receiving CROS. Because if

NOTE Confidence: 0.95273966  
00:16:38.865 --> 00:16:40.225 you couldn't do that, then  
NOTE Confidence: 0.95273966  
00:16:40.225 --> 00:16:40.705 there's,  
NOTE Confidence: 0.99245685  
00:16:41.185 --> 00:16:42.325 no point in,  
NOTE Confidence: 0.9613543  
00:16:42.865 --> 00:16:44.705 the trial, which is taking  
NOTE Confidence: 0.9613543  
00:16:44.705 --> 00:16:45.985 people who appear to have  
NOTE Confidence: 0.9613543  
00:16:45.985 --> 00:16:47.365 been cleared of their disease  
NOTE Confidence: 0.736292  
00:16:47.745 --> 00:16:48.245 and,  
NOTE Confidence: 0.99941146  
00:16:49.040 --> 00:16:49.540 selectively  
NOTE Confidence: 0.9775073  
00:16:49.920 --> 00:16:51.519 watching them to see if  
NOTE Confidence: 0.9775073  
00:16:51.519 --> 00:16:52.800 the the cancer came back  
NOTE Confidence: 0.9775073  
00:16:52.800 --> 00:16:54.260 and deferring esophagectomy  
NOTE Confidence: 0.9874797  
00:16:54.720 --> 00:16:55.920 to only those people where  
NOTE Confidence: 0.9874797  
00:16:55.920 --> 00:16:57.040 the cancer came back. And  
NOTE Confidence: 0.9874797  
00:16:57.040 --> 00:16:58.800 so this was the trial  
NOTE Confidence: 0.9874797  
00:16:58.800 --> 00:17:00.339 to determine, could you  
NOTE Confidence: 0.98614573

00:17:00.720 --> 00:17:02.639 detect people that were free  
NOTE Confidence: 0.98614573

00:17:02.639 --> 00:17:04.419 of residual disease? This was  
NOTE Confidence: 0.98614573

00:17:04.615 --> 00:17:06.375 done in the Netherlands. Again,  
NOTE Confidence: 0.98614573

00:17:06.375 --> 00:17:07.575 it was after the CROS  
NOTE Confidence: 0.98614573

00:17:07.575 --> 00:17:08.075 regimen.  
NOTE Confidence: 0.6828835

00:17:08.934 --> 00:17:09.434 The  
NOTE Confidence: 0.9768703

00:17:12.294 --> 00:17:12.794 the  
NOTE Confidence: 0.94751906

00:17:13.095 --> 00:17:14.534 four to six weeks after  
NOTE Confidence: 0.94751906

00:17:14.534 --> 00:17:15.734 the completion of the chemo  
NOTE Confidence: 0.94751906

00:17:15.734 --> 00:17:17.355 radiation, they underwent an endoscopy.  
NOTE Confidence: 0.9435304

00:17:18.270 --> 00:17:18.770 And,  
NOTE Confidence: 0.81838346

00:17:19.550 --> 00:17:19.950 if,  
NOTE Confidence: 0.9926818

00:17:20.670 --> 00:17:22.670 they, was there was viable  
NOTE Confidence: 0.9926818

00:17:22.670 --> 00:17:23.170 cancer,  
NOTE Confidence: 0.9794442

00:17:23.630 --> 00:17:24.910 they did a PET scan  
NOTE Confidence: 0.9794442

00:17:24.910 --> 00:17:25.970 and an esophagectomy

NOTE Confidence: 0.9995332

00:17:26.510 --> 00:17:27.250 right away.

NOTE Confidence: 0.9990962

00:17:27.550 --> 00:17:28.670 If they didn't see vital

NOTE Confidence: 0.9990962

00:17:28.990 --> 00:17:30.430 any viable cancer, they did

NOTE Confidence: 0.9990962

00:17:30.430 --> 00:17:31.410 a second endoscopy,

NOTE Confidence: 0.95693487

00:17:32.984 --> 00:17:34.665 an ultrasound, a PET scan,

NOTE Confidence: 0.95693487

00:17:34.665 --> 00:17:36.744 and then everybody got an

NOTE Confidence: 0.95693487

00:17:36.744 --> 00:17:37.244 esophagectomy,

NOTE Confidence: 0.94908273

00:17:38.585 --> 00:17:41.165 after the, the second evaluation.

NOTE Confidence: 0.92147225

00:17:42.905 --> 00:17:44.185 So there were about two

NOTE Confidence: 0.92147225

00:17:44.185 --> 00:17:45.625 hundred and twenty patients. This

NOTE Confidence: 0.92147225

00:17:45.625 --> 00:17:46.285 was done

NOTE Confidence: 0.98908424

00:17:47.500 --> 00:17:49.020 a few years ago. They

NOTE Confidence: 0.98908424

00:17:49.020 --> 00:17:50.240 were mostly adenocarcinomas,

NOTE Confidence: 0.9996403

00:17:51.340 --> 00:17:52.720 and they wanted to see

NOTE Confidence: 0.9930218

00:17:53.180 --> 00:17:54.619 that of the people who

NOTE Confidence: 0.9930218

00:17:54.619 --> 00:17:56.960 had cancer still in them,  
NOTE Confidence: 0.996772

00:17:57.740 --> 00:17:58.940 what was the proportion of  
NOTE Confidence: 0.996772

00:17:58.940 --> 00:18:01.280 them that had a negative  
NOTE Confidence: 0.8603374

00:18:02.785 --> 00:18:03.845 clinical assessment?  
NOTE Confidence: 0.9945476

00:18:04.305 --> 00:18:05.825 And they called those false  
NOTE Confidence: 0.9945476

00:18:05.825 --> 00:18:06.325 negatives.  
NOTE Confidence: 0.9429239

00:18:07.585 --> 00:18:08.625 And so they started by  
NOTE Confidence: 0.9429239

00:18:08.625 --> 00:18:09.765 just doing biopsies  
NOTE Confidence: 0.9582951

00:18:10.065 --> 00:18:11.825 the way they routinely do  
NOTE Confidence: 0.9582951

00:18:11.825 --> 00:18:12.325 biopsies.  
NOTE Confidence: 0.8797555

00:18:13.025 --> 00:18:13.925 And they,  
NOTE Confidence: 0.9416097

00:18:14.785 --> 00:18:15.905 they had a a false  
NOTE Confidence: 0.9416097

00:18:15.905 --> 00:18:16.805 negative rate  
NOTE Confidence: 0.97287697

00:18:17.850 --> 00:18:19.770 of about thirty percent. So  
NOTE Confidence: 0.97287697

00:18:19.770 --> 00:18:20.890 then they started doing a  
NOTE Confidence: 0.97287697

00:18:20.890 --> 00:18:22.250 byte on byte, which just

NOTE Confidence: 0.97287697  
00:18:22.250 --> 00:18:23.310 basically means,  
NOTE Confidence: 0.98930824  
00:18:24.170 --> 00:18:25.690 that they took a byte  
NOTE Confidence: 0.98930824  
00:18:25.690 --> 00:18:27.050 and then went back to  
NOTE Confidence: 0.98930824  
00:18:27.050 --> 00:18:28.650 the same area and bit  
NOTE Confidence: 0.98930824  
00:18:28.650 --> 00:18:30.250 in the same area again,  
NOTE Confidence: 0.98930824  
00:18:30.250 --> 00:18:31.450 which gets a little bit  
NOTE Confidence: 0.98930824  
00:18:31.450 --> 00:18:31.950 deeper.  
NOTE Confidence: 0.9517106  
00:18:33.225 --> 00:18:35.225 Using this, they found, the  
NOTE Confidence: 0.9517106  
00:18:35.225 --> 00:18:37.005 false negative rate, again,  
NOTE Confidence: 0.98253036  
00:18:37.305 --> 00:18:40.025 meaning negative results in people  
NOTE Confidence: 0.98253036  
00:18:40.025 --> 00:18:41.625 who still had at least  
NOTE Confidence: 0.98253036  
00:18:41.625 --> 00:18:42.445 ten percent,  
NOTE Confidence: 0.866903  
00:18:43.065 --> 00:18:45.325 of their residual cancer.  
NOTE Confidence: 0.9736784  
00:18:46.169 --> 00:18:47.609 So it improved from thirty  
NOTE Confidence: 0.9736784  
00:18:47.609 --> 00:18:49.369 percent to seventeen percent. And  
NOTE Confidence: 0.9736784

00:18:49.369 --> 00:18:50.970 when they added FNA of  
NOTE Confidence: 0.9736784

00:18:50.970 --> 00:18:52.250 nodes that were bigger than  
NOTE Confidence: 0.9736784

00:18:52.250 --> 00:18:52.990 five millimeters,  
NOTE Confidence: 0.99782497

00:18:53.369 --> 00:18:54.409 it went down to ten  
NOTE Confidence: 0.99782497

00:18:54.409 --> 00:18:55.389 percent. So  
NOTE Confidence: 0.9994567

00:18:55.690 --> 00:18:57.230 ten percent of the patients  
NOTE Confidence: 0.9994567

00:18:57.289 --> 00:18:58.109 who had  
NOTE Confidence: 0.99901325

00:18:59.635 --> 00:19:00.695 residual cancer,  
NOTE Confidence: 0.9628959

00:19:01.395 --> 00:19:02.755 which they defined as greater  
NOTE Confidence: 0.9628959

00:19:02.755 --> 00:19:04.535 than ten percent residual cancer,  
NOTE Confidence: 0.99936503

00:19:04.994 --> 00:19:06.455 had a false negative.  
NOTE Confidence: 0.93395007

00:19:07.395 --> 00:19:08.515 And so this is a  
NOTE Confidence: 0.93395007

00:19:08.515 --> 00:19:10.035 table by group and the  
NOTE Confidence: 0.93395007

00:19:10.035 --> 00:19:10.535 TRG,  
NOTE Confidence: 0.98405385

00:19:11.970 --> 00:19:13.170 at the top here, this  
NOTE Confidence: 0.98405385

00:19:13.170 --> 00:19:15.250 is their different categories of

NOTE Confidence: 0.98405385  
00:19:15.250 --> 00:19:17.250 residual disease. And so if  
NOTE Confidence: 0.98405385  
00:19:17.250 --> 00:19:18.770 you were a TGR one,  
NOTE Confidence: 0.98405385  
00:19:18.770 --> 00:19:20.150 you had a complete pathologic  
NOTE Confidence: 0.98405385  
00:19:20.369 --> 00:19:20.869 response,  
NOTE Confidence: 0.98552895  
00:19:21.970 --> 00:19:23.330 or you had one to  
NOTE Confidence: 0.98552895  
00:19:23.330 --> 00:19:25.430 ten percent viable cancer,  
NOTE Confidence: 0.9469524  
00:19:27.715 --> 00:19:28.675 or greater than ten percent  
NOTE Confidence: 0.9469524  
00:19:28.675 --> 00:19:29.895 but less than fifty,  
NOTE Confidence: 0.98946786  
00:19:30.275 --> 00:19:31.715 or greater than fifty percent.  
NOTE Confidence: 0.98946786  
00:19:31.715 --> 00:19:33.234 These are the categories that  
NOTE Confidence: 0.98946786  
00:19:33.234 --> 00:19:33.734 they  
NOTE Confidence: 0.9810694  
00:19:34.035 --> 00:19:35.734 code their viable cancer.  
NOTE Confidence: 0.9843735  
00:19:36.275 --> 00:19:37.635 And this is what the  
NOTE Confidence: 0.9843735  
00:19:37.635 --> 00:19:38.915 study was designed to look  
NOTE Confidence: 0.9843735  
00:19:38.915 --> 00:19:40.295 at, just these patients  
NOTE Confidence: 0.9835679

00:19:40.940 --> 00:19:42.540 who had more than ten  
NOTE Confidence: 0.9835679

00:19:42.540 --> 00:19:44.080 percent viable cancer,  
NOTE Confidence: 0.9894395

00:19:44.540 --> 00:19:45.680 and they found,  
NOTE Confidence: 0.99863625

00:19:46.220 --> 00:19:47.100 that there was a ten  
NOTE Confidence: 0.99863625

00:19:47.100 --> 00:19:48.640 percent false negative rate.  
NOTE Confidence: 0.982432

00:19:49.580 --> 00:19:50.619 But they didn't really look  
NOTE Confidence: 0.982432

00:19:50.619 --> 00:19:51.980 at the people with one  
NOTE Confidence: 0.982432

00:19:51.980 --> 00:19:53.900 to ten percent residual cancer.  
NOTE Confidence: 0.982432

00:19:53.900 --> 00:19:55.435 And I would argue that  
NOTE Confidence: 0.982432

00:19:55.435 --> 00:19:57.695 patients probably care about that,  
NOTE Confidence: 0.9875152

00:19:58.234 --> 00:19:59.595 that that if you're really  
NOTE Confidence: 0.9875152

00:19:59.595 --> 00:20:01.055 looking to see who's been  
NOTE Confidence: 0.9875152

00:20:01.115 --> 00:20:03.035 rendered disease free, you'd wanna  
NOTE Confidence: 0.9875152

00:20:03.035 --> 00:20:04.734 know any living disease.  
NOTE Confidence: 0.99866134

00:20:05.515 --> 00:20:07.275 But what's funny about this  
NOTE Confidence: 0.99866134

00:20:07.275 --> 00:20:07.775 is

NOTE Confidence: 0.98535633

00:20:09.140 --> 00:20:10.260 this the way this was

NOTE Confidence: 0.98535633

00:20:10.260 --> 00:20:11.380 set up was to say,

NOTE Confidence: 0.98535633

00:20:11.380 --> 00:20:12.580 how well does the test

NOTE Confidence: 0.98535633

00:20:12.580 --> 00:20:13.080 perform?

NOTE Confidence: 0.9948339

00:20:13.619 --> 00:20:14.519 So given

NOTE Confidence: 0.9949763

00:20:15.460 --> 00:20:16.600 residual cancer,

NOTE Confidence: 0.9990985

00:20:16.980 --> 00:20:18.659 is the test coming up

NOTE Confidence: 0.9990985

00:20:18.659 --> 00:20:19.940 with a positive or negative

NOTE Confidence: 0.9990985

00:20:19.940 --> 00:20:21.619 result? Well, patients don't think

NOTE Confidence: 0.9990985

00:20:21.619 --> 00:20:22.820 that way. They don't care

NOTE Confidence: 0.9990985

00:20:22.820 --> 00:20:23.320 about

NOTE Confidence: 0.9921697

00:20:24.175 --> 00:20:25.695 scenarios and how the test

NOTE Confidence: 0.9921697

00:20:25.695 --> 00:20:27.215 performs. They wanna know about

NOTE Confidence: 0.9921697

00:20:27.215 --> 00:20:28.494 test results and what does

NOTE Confidence: 0.9921697

00:20:28.494 --> 00:20:29.155 it mean.

NOTE Confidence: 0.99100924

00:20:29.695 --> 00:20:31.055 So if a test says  
NOTE Confidence: 0.99100924

00:20:31.055 --> 00:20:32.575 no cancer, what is the  
NOTE Confidence: 0.99100924

00:20:32.575 --> 00:20:34.335 chance that you actually have  
NOTE Confidence: 0.99100924

00:20:34.335 --> 00:20:35.955 cancer? That's the false negative  
NOTE Confidence: 0.99100924

00:20:36.015 --> 00:20:36.390 rate,  
NOTE Confidence: 0.99688894

00:20:37.270 --> 00:20:39.590 that really matters most to  
NOTE Confidence: 0.99688894

00:20:39.590 --> 00:20:40.950 patients, and that points to  
NOTE Confidence: 0.99688894

00:20:40.950 --> 00:20:42.630 negative and positive predictive value.  
NOTE Confidence: 0.99688894

00:20:42.630 --> 00:20:43.910 And so when you look  
NOTE Confidence: 0.99688894

00:20:43.910 --> 00:20:45.030 at all the people who  
NOTE Confidence: 0.99688894

00:20:45.030 --> 00:20:46.970 had a negative test result,  
NOTE Confidence: 0.9660356

00:20:47.590 --> 00:20:48.869 and granted that this was  
NOTE Confidence: 0.9660356

00:20:48.869 --> 00:20:50.230 published saying there's a ten  
NOTE Confidence: 0.9660356

00:20:50.230 --> 00:20:51.855 percent false negative rate to  
NOTE Confidence: 0.9660356

00:20:51.855 --> 00:20:52.595 this presano  
NOTE Confidence: 0.9909307

00:20:53.215 --> 00:20:54.415 trial. But if you actually

NOTE Confidence: 0.9909307

00:20:54.415 --> 00:20:55.934 looked at everybody who had

NOTE Confidence: 0.9909307

00:20:55.934 --> 00:20:57.395 a negative test result,

NOTE Confidence: 0.9411297

00:20:57.855 --> 00:20:58.975 there were twenty nine,

NOTE Confidence: 0.97226745

00:20:59.375 --> 00:21:00.515 negative test results.

NOTE Confidence: 0.972919

00:21:00.895 --> 00:21:02.015 They the patient still had

NOTE Confidence: 0.972919

00:21:02.015 --> 00:21:03.375 cancer fifty five percent of

NOTE Confidence: 0.972919

00:21:03.375 --> 00:21:04.515 the time. And so

NOTE Confidence: 0.9784608

00:21:04.840 --> 00:21:06.280 that's just an important number

NOTE Confidence: 0.9784608

00:21:06.280 --> 00:21:07.160 to keep in the back

NOTE Confidence: 0.9784608

00:21:07.160 --> 00:21:08.200 of your head that a

NOTE Confidence: 0.9784608

00:21:08.200 --> 00:21:08.700 negative,

NOTE Confidence: 0.8879463

00:21:09.480 --> 00:21:10.860 Sano level evaluation,

NOTE Confidence: 0.9849693

00:21:12.680 --> 00:21:14.680 there's viable cancer half the

NOTE Confidence: 0.9849693

00:21:14.680 --> 00:21:15.180 time.

NOTE Confidence: 0.9532859

00:21:16.760 --> 00:21:18.119 So now to talk about

NOTE Confidence: 0.9532859

00:21:18.119 --> 00:21:19.180 the Sano trial.  
NOTE Confidence: 0.9900482

00:21:19.725 --> 00:21:21.505 So, this is a really  
NOTE Confidence: 0.80009514

00:21:22.125 --> 00:21:22.945 nice trial  
NOTE Confidence: 0.809954

00:21:23.244 --> 00:21:23.744 done,  
NOTE Confidence: 0.9017904

00:21:24.205 --> 00:21:25.265 again, in the Netherlands.  
NOTE Confidence: 0.9989228

00:21:25.885 --> 00:21:27.265 Twelve high volume  
NOTE Confidence: 0.95763826

00:21:27.804 --> 00:21:29.085 centers, and it was it's  
NOTE Confidence: 0.95763826

00:21:29.085 --> 00:21:30.225 a recent trial,  
NOTE Confidence: 0.8810838

00:21:31.085 --> 00:21:32.304 similar to presano,  
NOTE Confidence: 0.9504605

00:21:33.690 --> 00:21:35.690 mostly adeno, and about twenty  
NOTE Confidence: 0.9504605

00:21:35.690 --> 00:21:37.690 five percent squamous. And, again,  
NOTE Confidence: 0.9504605

00:21:37.690 --> 00:21:38.910 it's the CROS regimen.  
NOTE Confidence: 0.9438593

00:21:39.690 --> 00:21:41.130 And they use something called  
NOTE Confidence: 0.9438593

00:21:41.130 --> 00:21:43.230 a stepped wedge clustered randomization,  
NOTE Confidence: 0.9956007

00:21:43.530 --> 00:21:45.734 which basically means the patients  
NOTE Confidence: 0.9956007

00:21:45.734 --> 00:21:46.635 aren't randomized.

NOTE Confidence: 0.998738  
00:21:47.575 --> 00:21:48.875 The twelve hospitals,  
NOTE Confidence: 0.99211067  
00:21:49.335 --> 00:21:51.175 they only do one or  
NOTE Confidence: 0.99211067  
00:21:51.175 --> 00:21:51.915 the other,  
NOTE Confidence: 0.9876617  
00:21:52.455 --> 00:21:54.775 and what they do evolves  
NOTE Confidence: 0.9876617  
00:21:54.775 --> 00:21:56.455 over time. So everybody that  
NOTE Confidence: 0.9876617  
00:21:56.455 --> 00:21:58.535 goes to each hospital gets  
NOTE Confidence: 0.9876617  
00:21:58.535 --> 00:21:59.095 the same,  
NOTE Confidence: 0.93957657  
00:22:00.160 --> 00:22:01.700 form of treatment, either  
NOTE Confidence: 0.89634275  
00:22:02.400 --> 00:22:04.420 cross then surgery or cross,  
NOTE Confidence: 0.9958711  
00:22:04.960 --> 00:22:06.660 versus active surveillance.  
NOTE Confidence: 0.99816513  
00:22:07.040 --> 00:22:08.340 And every three months,  
NOTE Confidence: 0.99610484  
00:22:08.960 --> 00:22:09.460 hospitals  
NOTE Confidence: 0.99870837  
00:22:09.920 --> 00:22:11.060 switch from  
NOTE Confidence: 0.93098116  
00:22:12.255 --> 00:22:13.155 being a surgery,  
NOTE Confidence: 0.9994968  
00:22:13.615 --> 00:22:14.595 performing center  
NOTE Confidence: 0.9941642

00:22:14.895 --> 00:22:16.195 to one that does surveillance.  
NOTE Confidence: 0.9941642

00:22:16.255 --> 00:22:17.855 So anybody who signs up  
NOTE Confidence: 0.9941642

00:22:17.855 --> 00:22:18.815 for this trial, they know  
NOTE Confidence: 0.9941642

00:22:18.815 --> 00:22:19.715 what they're getting,  
NOTE Confidence: 0.971249

00:22:20.095 --> 00:22:21.535 because of the hospital that  
NOTE Confidence: 0.971249

00:22:21.535 --> 00:22:23.135 they go to. And then  
NOTE Confidence: 0.971249

00:22:23.135 --> 00:22:24.895 eventually, all the hospitals were  
NOTE Confidence: 0.971249

00:22:24.895 --> 00:22:27.010 doing active surveillance. So with  
NOTE Confidence: 0.971249

00:22:27.010 --> 00:22:28.150 the start of the trial,  
NOTE Confidence: 0.971249

00:22:28.210 --> 00:22:30.210 every hospital, all twelve hospitals  
NOTE Confidence: 0.971249

00:22:30.210 --> 00:22:31.270 were doing surgery,  
NOTE Confidence: 0.84777194

00:22:31.890 --> 00:22:33.030 cross then surgery.  
NOTE Confidence: 0.99958277

00:22:33.410 --> 00:22:34.070 And then  
NOTE Confidence: 0.99062735

00:22:34.609 --> 00:22:35.670 every three months,  
NOTE Confidence: 0.9952687

00:22:36.450 --> 00:22:38.230 two hospitals were randomly  
NOTE Confidence: 0.9996173

00:22:38.850 --> 00:22:40.530 assigned to take all their

NOTE Confidence: 0.9996173  
00:22:40.530 --> 00:22:41.030 patients  
NOTE Confidence: 0.997297  
00:22:41.595 --> 00:22:43.515 subsequent to that and do  
NOTE Confidence: 0.997297  
00:22:43.515 --> 00:22:44.415 active surveillance.  
NOTE Confidence: 0.94469756  
00:22:44.875 --> 00:22:45.855 And so, eventually,  
NOTE Confidence: 0.98197556  
00:22:46.475 --> 00:22:47.355 more and more of the  
NOTE Confidence: 0.98197556  
00:22:47.355 --> 00:22:49.135 hospitals became active surveillance,  
NOTE Confidence: 0.99447167  
00:22:50.234 --> 00:22:51.515 until all of them were  
NOTE Confidence: 0.99447167  
00:22:51.515 --> 00:22:53.609 active surveillance. And so it  
NOTE Confidence: 0.99447167  
00:22:53.609 --> 00:22:55.050 was designed as a two  
NOTE Confidence: 0.99447167  
00:22:55.050 --> 00:22:57.130 year overall survival from the  
NOTE Confidence: 0.99447167  
00:22:57.130 --> 00:22:58.250 from the time that they  
NOTE Confidence: 0.99447167  
00:22:58.250 --> 00:23:00.350 determine a complete clinical response.  
NOTE Confidence: 0.9706346  
00:23:00.890 --> 00:23:02.650 And it's non inferiority, which  
NOTE Confidence: 0.9706346  
00:23:02.650 --> 00:23:03.390 means that,  
NOTE Confidence: 0.9813873  
00:23:04.170 --> 00:23:05.309 they picked a margin.  
NOTE Confidence: 0.99106324

00:23:05.770 --> 00:23:07.930 They said fifteen percent. So  
NOTE Confidence: 0.99106324

00:23:07.930 --> 00:23:09.744 if the difference in two  
NOTE Confidence: 0.99106324

00:23:09.744 --> 00:23:11.285 year survival between  
NOTE Confidence: 0.99982685

00:23:11.984 --> 00:23:12.484 surgery  
NOTE Confidence: 0.9152618

00:23:12.865 --> 00:23:15.205 as, following cross or  
NOTE Confidence: 0.98137826

00:23:15.505 --> 00:23:16.484 active surveillance,  
NOTE Confidence: 0.99931824

00:23:17.185 --> 00:23:18.625 if they were within fifteen  
NOTE Confidence: 0.99931824

00:23:18.625 --> 00:23:20.244 percentage points of each other,  
NOTE Confidence: 0.9617921

00:23:20.705 --> 00:23:22.465 it was not inferior. And  
NOTE Confidence: 0.9617921

00:23:22.465 --> 00:23:23.605 it actually it's the  
NOTE Confidence: 0.86156464

00:23:23.960 --> 00:23:25.320 upper boundary of the confidence  
NOTE Confidence: 0.86156464

00:23:25.320 --> 00:23:27.320 interval by that that's not  
NOTE Confidence: 0.86156464

00:23:27.320 --> 00:23:27.820 critical.  
NOTE Confidence: 0.9486762

00:23:28.520 --> 00:23:30.520 So they screened about eleven  
NOTE Confidence: 0.9486762

00:23:30.520 --> 00:23:32.140 hundred patients. And interestingly,  
NOTE Confidence: 0.9992362

00:23:32.600 --> 00:23:34.040 about twenty five percent of

NOTE Confidence: 0.9992362

00:23:34.040 --> 00:23:35.500 all the people they screened

NOTE Confidence: 0.97952276

00:23:36.805 --> 00:23:38.565 did not wanna participate this.

NOTE Confidence: 0.97952276

00:23:38.565 --> 00:23:39.445 And and I think that's

NOTE Confidence: 0.97952276

00:23:39.445 --> 00:23:40.345 just important

NOTE Confidence: 0.97284806

00:23:40.965 --> 00:23:42.244 to sort of understand the

NOTE Confidence: 0.97284806

00:23:42.244 --> 00:23:43.605 appetite. Again, this is not

NOTE Confidence: 0.97284806

00:23:43.605 --> 00:23:45.125 randomized. They they would know

NOTE Confidence: 0.97284806

00:23:45.125 --> 00:23:47.145 what they're getting up front,

NOTE Confidence: 0.9770359

00:23:47.445 --> 00:23:48.825 but they were not interested

NOTE Confidence: 0.9770359

00:23:49.125 --> 00:23:50.585 in in, participating

NOTE Confidence: 0.9977511

00:23:51.125 --> 00:23:52.330 in this. So there were

NOTE Confidence: 0.9977511

00:23:52.330 --> 00:23:53.789 about seven hundred and sixty

NOTE Confidence: 0.9977511

00:23:54.009 --> 00:23:55.629 that underwent that

NOTE Confidence: 0.9985911

00:23:56.090 --> 00:23:56.669 first evaluation,

NOTE Confidence: 0.7647002

00:23:58.250 --> 00:23:58.750 which,

NOTE Confidence: 0.9738487

00:23:59.210 --> 00:24:00.429 was an upper endoscopy,  
NOTE Confidence: 0.80774605

00:24:01.769 --> 00:24:02.250 and,  
NOTE Confidence: 0.8195065

00:24:02.970 --> 00:24:03.710 an ultrasound.  
NOTE Confidence: 0.9973877

00:24:06.184 --> 00:24:07.804 The at that first evaluation,  
NOTE Confidence: 0.996169

00:24:08.425 --> 00:24:09.865 thirty six percent were found  
NOTE Confidence: 0.996169

00:24:09.865 --> 00:24:11.065 to have cancer in the  
NOTE Confidence: 0.996169

00:24:11.065 --> 00:24:12.665 esophagus. So people got their  
NOTE Confidence: 0.996169

00:24:12.665 --> 00:24:13.885 chemotherapy and radiation.  
NOTE Confidence: 0.9549236

00:24:14.905 --> 00:24:16.445 They had a six week,  
NOTE Confidence: 0.9902304

00:24:17.385 --> 00:24:18.505 at the six weeks after  
NOTE Confidence: 0.9902304

00:24:18.505 --> 00:24:19.785 the chemotherapy and radiation, they  
NOTE Confidence: 0.9902304

00:24:19.785 --> 00:24:20.765 got an upper endoscopy.  
NOTE Confidence: 0.98677874

00:24:21.960 --> 00:24:23.080 Just over a third of  
NOTE Confidence: 0.98677874

00:24:23.080 --> 00:24:24.840 them, they still had viable  
NOTE Confidence: 0.98677874

00:24:24.840 --> 00:24:27.020 cancer in the esophagus. And  
NOTE Confidence: 0.98677874

00:24:27.240 --> 00:24:28.460 those that did not

NOTE Confidence: 0.9907781

00:24:28.760 --> 00:24:30.119 went on to the twelve

NOTE Confidence: 0.9907781

00:24:30.119 --> 00:24:32.000 week clinical evaluation, which is

NOTE Confidence: 0.9907781

00:24:32.000 --> 00:24:33.580 a little bit more involved,

NOTE Confidence: 0.9907781

00:24:33.640 --> 00:24:35.345 which was upper endoscopy,

NOTE Confidence: 0.99316067

00:24:35.965 --> 00:24:37.585 ultrasound, and a PET scan.

NOTE Confidence: 0.99316067

00:24:37.804 --> 00:24:38.845 And of the people that

NOTE Confidence: 0.99316067

00:24:38.845 --> 00:24:41.105 underwent that second clinical evaluation,

NOTE Confidence: 0.9293958

00:24:41.804 --> 00:24:43.885 another third were found to

NOTE Confidence: 0.9293958

00:24:43.885 --> 00:24:45.905 have live viable cancer,

NOTE Confidence: 0.9859934

00:24:46.525 --> 00:24:47.825 but forty of them,

NOTE Confidence: 0.9458763

00:24:48.500 --> 00:24:50.260 actually sorry. Forty, forty of

NOTE Confidence: 0.9458763

00:24:50.260 --> 00:24:52.359 them actually had systemic metastases

NOTE Confidence: 0.97454435

00:24:52.980 --> 00:24:54.119 that they were

NOTE Confidence: 0.9397339

00:24:54.500 --> 00:24:56.280 found between their screening

NOTE Confidence: 0.9367807

00:24:56.740 --> 00:24:58.420 and this twelve week clinical

NOTE Confidence: 0.9367807

00:24:58.420 --> 00:24:58.920 evaluation.  
NOTE Confidence: 0.9889721

00:24:59.619 --> 00:25:01.380 But they deemed thirty five  
NOTE Confidence: 0.9889721

00:25:01.380 --> 00:25:01.880 percent  
NOTE Confidence: 0.98886454

00:25:02.855 --> 00:25:04.875 had a complete clinical response,  
NOTE Confidence: 0.84445685

00:25:06.695 --> 00:25:07.915 from this this,  
NOTE Confidence: 0.9982314

00:25:08.375 --> 00:25:08.875 group.  
NOTE Confidence: 0.99893636

00:25:10.295 --> 00:25:11.275 And from this,  
NOTE Confidence: 0.9773143

00:25:11.655 --> 00:25:13.175 a hundred and eleven underwent  
NOTE Confidence: 0.9773143

00:25:13.175 --> 00:25:14.155 standard surgery.  
NOTE Confidence: 0.9563723

00:25:14.560 --> 00:25:15.680 A hundred and ninety eight  
NOTE Confidence: 0.9563723

00:25:15.680 --> 00:25:17.600 underwent active surveillance. The numbers  
NOTE Confidence: 0.9563723

00:25:17.600 --> 00:25:18.880 don't completely match up because  
NOTE Confidence: 0.9563723

00:25:18.880 --> 00:25:19.920 they actually brought in some  
NOTE Confidence: 0.9563723

00:25:19.920 --> 00:25:20.740 of the presano  
NOTE Confidence: 0.96260893

00:25:21.040 --> 00:25:21.540 patients.  
NOTE Confidence: 0.97225386

00:25:22.560 --> 00:25:23.920 And so this was the

NOTE Confidence: 0.97225386  
00:25:23.920 --> 00:25:24.420 clinical  
NOTE Confidence: 0.95941085  
00:25:24.800 --> 00:25:26.800 response assessment. So six weeks  
NOTE Confidence: 0.95941085  
00:25:26.800 --> 00:25:28.260 after induction therapy,  
NOTE Confidence: 0.9943824  
00:25:28.675 --> 00:25:29.875 this was the four bite  
NOTE Confidence: 0.9943824  
00:25:29.875 --> 00:25:30.855 on bite biopsies.  
NOTE Confidence: 0.9695611  
00:25:32.355 --> 00:25:33.315 And if they didn't see  
NOTE Confidence: 0.9695611  
00:25:33.315 --> 00:25:34.835 any cancer, they went ongoing,  
NOTE Confidence: 0.9926808  
00:25:35.315 --> 00:25:36.755 observation. And then at twelve  
NOTE Confidence: 0.9926808  
00:25:36.755 --> 00:25:38.035 weeks, they added a PET  
NOTE Confidence: 0.9926808  
00:25:38.035 --> 00:25:38.535 scan  
NOTE Confidence: 0.83377534  
00:25:38.994 --> 00:25:39.975 and the EUS.  
NOTE Confidence: 0.9991692  
00:25:40.755 --> 00:25:41.635 And if there were no  
NOTE Confidence: 0.9991692  
00:25:41.635 --> 00:25:42.994 tumor cells at the twelve  
NOTE Confidence: 0.9991692  
00:25:42.994 --> 00:25:43.494 weeks,  
NOTE Confidence: 0.9890661  
00:25:43.940 --> 00:25:45.460 they were deemed a complete,  
NOTE Confidence: 0.999382

00:25:45.780 --> 00:25:46.840 clinical responder.  
NOTE Confidence: 0.9983688

00:25:49.220 --> 00:25:50.820 And, if you were getting  
NOTE Confidence: 0.9983688

00:25:50.820 --> 00:25:51.720 active surveillance,  
NOTE Confidence: 0.99838567

00:25:53.299 --> 00:25:53.799 then  
NOTE Confidence: 0.97322273

00:25:54.100 --> 00:25:56.025 in year one, you got,  
NOTE Confidence: 0.9732704

00:25:56.505 --> 00:25:58.345 the the biopsy, the bite  
NOTE Confidence: 0.9732704

00:25:58.345 --> 00:26:00.025 on bite biopsies, the EUS,  
NOTE Confidence: 0.9732704

00:26:00.025 --> 00:26:01.305 and the PET scan every  
NOTE Confidence: 0.9732704

00:26:01.305 --> 00:26:03.145 three months. Year two is  
NOTE Confidence: 0.9732704

00:26:03.145 --> 00:26:04.425 every four months. Year three,  
NOTE Confidence: 0.9732704

00:26:04.425 --> 00:26:05.405 every six months.  
NOTE Confidence: 0.9955012

00:26:05.705 --> 00:26:06.765 And then after,  
NOTE Confidence: 0.99720263

00:26:07.145 --> 00:26:08.265 the third year, it was  
NOTE Confidence: 0.99720263

00:26:08.265 --> 00:26:08.765 annually.  
NOTE Confidence: 0.9852034

00:26:09.830 --> 00:26:10.710 And when you look at  
NOTE Confidence: 0.9852034

00:26:10.710 --> 00:26:12.390 overall survival, this was their

NOTE Confidence: 0.9852034  
00:26:12.390 --> 00:26:12.890 endpoint.  
NOTE Confidence: 0.99628556  
00:26:13.830 --> 00:26:15.510 Seventy four percent of the  
NOTE Confidence: 0.99628556  
00:26:15.510 --> 00:26:16.410 active surveillance,  
NOTE Confidence: 0.9974394  
00:26:17.030 --> 00:26:18.390 patients were alive at two  
NOTE Confidence: 0.9974394  
00:26:18.390 --> 00:26:19.990 years, and seventy one percent  
NOTE Confidence: 0.9974394  
00:26:19.990 --> 00:26:21.850 of the standard surgery patients  
NOTE Confidence: 0.9974394  
00:26:22.070 --> 00:26:23.575 were alive. And so this  
NOTE Confidence: 0.9974394  
00:26:23.575 --> 00:26:24.395 is encouraging  
NOTE Confidence: 0.9912815  
00:26:24.775 --> 00:26:26.135 that there are people who  
NOTE Confidence: 0.9912815  
00:26:26.135 --> 00:26:27.915 can be actively surveyed.  
NOTE Confidence: 0.9880018  
00:26:28.855 --> 00:26:30.055 But I think the real  
NOTE Confidence: 0.9880018  
00:26:30.055 --> 00:26:31.975 interesting is is how you  
NOTE Confidence: 0.9880018  
00:26:31.975 --> 00:26:34.215 know, what happened in, to  
NOTE Confidence: 0.9880018  
00:26:34.215 --> 00:26:35.815 these different patients as they  
NOTE Confidence: 0.9880018  
00:26:35.815 --> 00:26:37.660 went along. And so if  
NOTE Confidence: 0.9880018

00:26:37.660 --> 00:26:39.200 you divide all the patients  
NOTE Confidence: 0.9719567

00:26:39.500 --> 00:26:40.940 up into an and put  
NOTE Confidence: 0.9719567

00:26:40.940 --> 00:26:42.380 them into the a, into  
NOTE Confidence: 0.9719567

00:26:42.380 --> 00:26:44.300 the the pie chart, you  
NOTE Confidence: 0.9719567

00:26:44.300 --> 00:26:45.020 can get rid of the  
NOTE Confidence: 0.9719567

00:26:45.020 --> 00:26:46.700 people who were excluded for  
NOTE Confidence: 0.9719567

00:26:46.700 --> 00:26:48.160 sort of technical reasons.  
NOTE Confidence: 0.9954362

00:26:50.145 --> 00:26:52.165 Fifty five percent of patients  
NOTE Confidence: 0.988472

00:26:52.545 --> 00:26:54.145 had before they could get  
NOTE Confidence: 0.988472

00:26:54.145 --> 00:26:56.065 randomized or before they were,  
NOTE Confidence: 0.9841471

00:26:57.105 --> 00:26:58.225 made it to the point  
NOTE Confidence: 0.9841471

00:26:58.225 --> 00:26:58.965 of being,  
NOTE Confidence: 0.9914664

00:26:59.984 --> 00:27:01.505 assigned to one of the,  
NOTE Confidence: 0.9914664

00:27:01.825 --> 00:27:02.565 two groups,  
NOTE Confidence: 0.98706853

00:27:03.070 --> 00:27:04.910 they had viable cancer. About  
NOTE Confidence: 0.98706853

00:27:04.910 --> 00:27:06.609 a third at each checkpoint,

NOTE Confidence: 0.9841337

00:27:07.550 --> 00:27:08.910 and then five percent had

NOTE Confidence: 0.9841337

00:27:08.910 --> 00:27:09.410 mets,

NOTE Confidence: 0.8412547

00:27:10.830 --> 00:27:13.250 systemic mets during this evaluation.

NOTE Confidence: 0.9763624

00:27:14.109 --> 00:27:14.910 And then if you look

NOTE Confidence: 0.9763624

00:27:14.910 --> 00:27:16.850 at the groups that underwent,

NOTE Confidence: 0.9993073

00:27:17.895 --> 00:27:19.734 either the active surveillance or

NOTE Confidence: 0.9993073

00:27:19.734 --> 00:27:20.875 the standard surgery,

NOTE Confidence: 0.99921286

00:27:21.975 --> 00:27:23.675 it's a much smaller subset.

NOTE Confidence: 0.99967134

00:27:24.295 --> 00:27:25.655 And if we really focus

NOTE Confidence: 0.99967134

00:27:25.655 --> 00:27:27.734 on the active surveillance group,

NOTE Confidence: 0.98314166

00:27:28.055 --> 00:27:29.095 which is about a quarter

NOTE Confidence: 0.98314166

00:27:29.095 --> 00:27:30.635 of the patients that started

NOTE Confidence: 0.98314166

00:27:30.695 --> 00:27:31.515 all of this,

NOTE Confidence: 0.95597863

00:27:31.940 --> 00:27:33.320 and break them down,

NOTE Confidence: 0.99576133

00:27:34.580 --> 00:27:35.799 you can see that

NOTE Confidence: 0.946577

00:27:36.660 --> 00:27:38.100 about four percent of them  
NOTE Confidence: 0.946577

00:27:38.100 --> 00:27:38.600 developed  
NOTE Confidence: 0.5473364

00:27:38.980 --> 00:27:39.480 METs,  
NOTE Confidence: 0.9410504

00:27:40.020 --> 00:27:41.000 systemic metastases,  
NOTE Confidence: 0.94738007

00:27:41.380 --> 00:27:42.340 why they were while they  
NOTE Confidence: 0.94738007

00:27:42.340 --> 00:27:43.960 were undergoing active surveillance.  
NOTE Confidence: 0.99024

00:27:45.625 --> 00:27:47.625 Local only failure means they  
NOTE Confidence: 0.99024

00:27:47.625 --> 00:27:48.984 found the cancer in the  
NOTE Confidence: 0.99024

00:27:48.984 --> 00:27:50.765 esophagus, but nowhere else.  
NOTE Confidence: 0.99777955

00:27:51.145 --> 00:27:52.585 That happened twelve percent of  
NOTE Confidence: 0.99777955

00:27:52.585 --> 00:27:53.244 the time.  
NOTE Confidence: 0.9860402

00:27:53.945 --> 00:27:55.145 Ten percent of them went  
NOTE Confidence: 0.9860402

00:27:55.145 --> 00:27:56.425 on to surgery, while two  
NOTE Confidence: 0.9860402

00:27:56.425 --> 00:27:57.725 percent did not.  
NOTE Confidence: 0.974023

00:27:58.070 --> 00:27:58.970 And then eight percent,  
NOTE Confidence: 0.982916

00:28:00.150 --> 00:28:00.809 of patients,

NOTE Confidence: 0.9447732

00:28:01.350 --> 00:28:02.869 there was no cancer in

NOTE Confidence: 0.9447732

00:28:02.869 --> 00:28:04.570 the two years of observation.

NOTE Confidence: 0.9861695

00:28:04.869 --> 00:28:06.470 They had no cancer no

NOTE Confidence: 0.9861695

00:28:06.470 --> 00:28:07.910 return of cancer. And if

NOTE Confidence: 0.9861695

00:28:07.910 --> 00:28:09.030 we just look at the

NOTE Confidence: 0.9861695

00:28:09.030 --> 00:28:10.890 people who underwent active surveillance

NOTE Confidence: 0.93703717

00:28:11.510 --> 00:28:12.790 and just look at that

NOTE Confidence: 0.93703717

00:28:12.790 --> 00:28:13.290 subset,

NOTE Confidence: 0.99096465

00:28:14.115 --> 00:28:15.395 So forty two percent of

NOTE Confidence: 0.99096465

00:28:15.395 --> 00:28:17.095 patients underwent surgery,

NOTE Confidence: 0.94000334

00:28:18.275 --> 00:28:18.775 eventually,

NOTE Confidence: 0.8176488

00:28:19.555 --> 00:28:20.915 as for a median about

NOTE Confidence: 0.8176488

00:28:20.915 --> 00:28:21.734 six months.

NOTE Confidence: 0.99374354

00:28:22.675 --> 00:28:23.955 About seventeen percent of the

NOTE Confidence: 0.99374354

00:28:23.955 --> 00:28:25.815 people that underwent active surveillance

NOTE Confidence: 0.7401787

00:28:26.460 --> 00:28:27.520 developed metastases,  
NOTE Confidence: 0.9953182

00:28:28.380 --> 00:28:30.460 and seven percent developed local  
NOTE Confidence: 0.9953182

00:28:30.460 --> 00:28:32.140 only failure. Cancer came back  
NOTE Confidence: 0.9953182

00:28:32.140 --> 00:28:33.039 in the esophagus,  
NOTE Confidence: 0.9997168

00:28:33.580 --> 00:28:34.940 but they opted not to  
NOTE Confidence: 0.9997168

00:28:34.940 --> 00:28:35.679 have surgery.  
NOTE Confidence: 0.99513066

00:28:36.140 --> 00:28:37.179 So I think this is  
NOTE Confidence: 0.99513066

00:28:37.179 --> 00:28:38.799 kind of an interesting perspective  
NOTE Confidence: 0.99513066

00:28:38.860 --> 00:28:40.299 of things. So the first  
NOTE Confidence: 0.99513066

00:28:40.299 --> 00:28:41.419 thing is if these people  
NOTE Confidence: 0.99513066

00:28:41.419 --> 00:28:41.919 waited  
NOTE Confidence: 0.99676096

00:28:42.674 --> 00:28:43.335 six months,  
NOTE Confidence: 0.95881844

00:28:44.034 --> 00:28:45.794 were there any downside to  
NOTE Confidence: 0.95881844

00:28:45.794 --> 00:28:46.835 waiting? Because why not just  
NOTE Confidence: 0.95881844

00:28:46.835 --> 00:28:47.955 do this for everybody if  
NOTE Confidence: 0.95881844

00:28:47.955 --> 00:28:48.934 there's no downside

NOTE Confidence: 0.8619766

00:28:49.715 --> 00:28:50.375 to waiting?

NOTE Confidence: 0.95967746

00:28:51.154 --> 00:28:52.514 Even if it's a very

NOTE Confidence: 0.95967746

00:28:52.514 --> 00:28:54.195 small percentage of patients that

NOTE Confidence: 0.95967746

00:28:54.195 --> 00:28:55.335 can avoid surgery,

NOTE Confidence: 0.9955155

00:28:55.920 --> 00:28:57.760 Why not? And so the

NOTE Confidence: 0.9955155

00:28:57.760 --> 00:28:59.120 concern is that if you

NOTE Confidence: 0.9955155

00:28:59.120 --> 00:29:01.300 wait longer, people can develop

NOTE Confidence: 0.9955155

00:29:01.360 --> 00:29:03.600 metastases that they otherwise would

NOTE Confidence: 0.9955155

00:29:03.600 --> 00:29:04.820 not have. And so

NOTE Confidence: 0.9565782

00:29:05.360 --> 00:29:06.580 there was a difference,

NOTE Confidence: 0.97907

00:29:07.040 --> 00:29:08.900 that was not statistically significant,

NOTE Confidence: 0.97907

00:29:09.040 --> 00:29:10.080 but a but a trend

NOTE Confidence: 0.97907

00:29:10.080 --> 00:29:11.355 for a difference at thirty

NOTE Confidence: 0.97907

00:29:11.355 --> 00:29:11.855 months,

NOTE Confidence: 0.9685672

00:29:13.035 --> 00:29:14.555 difference in the,

NOTE Confidence: 0.98097694

00:29:14.955 --> 00:29:16.735 the rate of distant metastases,  
NOTE Confidence: 0.9994965

00:29:17.515 --> 00:29:18.875 forty three percent for the  
NOTE Confidence: 0.9994965

00:29:18.875 --> 00:29:19.375 surveillance  
NOTE Confidence: 0.9831386

00:29:19.755 --> 00:29:21.295 group, and thirty four percent  
NOTE Confidence: 0.9831386

00:29:21.595 --> 00:29:23.115 for the standard surgery. This  
NOTE Confidence: 0.9831386

00:29:23.115 --> 00:29:25.115 was not statistically significant, but  
NOTE Confidence: 0.9831386

00:29:25.115 --> 00:29:25.675 it is a  
NOTE Confidence: 0.99608374

00:29:26.690 --> 00:29:27.590 it it's approaching  
NOTE Confidence: 0.9898677

00:29:27.970 --> 00:29:29.910 significance in in my mind.  
NOTE Confidence: 0.9640367

00:29:31.090 --> 00:29:31.970 And if you look at  
NOTE Confidence: 0.9640367

00:29:31.970 --> 00:29:33.270 the disease free survival,  
NOTE Confidence: 0.99953824

00:29:34.130 --> 00:29:35.890 there is no difference in  
NOTE Confidence: 0.99953824

00:29:35.890 --> 00:29:36.390 the  
NOTE Confidence: 0.97103935

00:29:36.770 --> 00:29:38.450 period that was observed. But  
NOTE Confidence: 0.97103935

00:29:38.450 --> 00:29:39.925 if you look, they are  
NOTE Confidence: 0.97103935

00:29:39.925 --> 00:29:41.685 starting to separate after two

NOTE Confidence: 0.97103935  
00:29:41.685 --> 00:29:43.125 years. You are starting to  
NOTE Confidence: 0.97103935  
00:29:43.125 --> 00:29:43.625 see  
NOTE Confidence: 0.9684902  
00:29:44.085 --> 00:29:45.065 a bit more,  
NOTE Confidence: 0.9989688  
00:29:45.765 --> 00:29:47.465 of a disease free survival  
NOTE Confidence: 0.9554639  
00:29:47.845 --> 00:29:48.345 trend,  
NOTE Confidence: 0.9994974  
00:29:48.965 --> 00:29:50.165 in the people that had  
NOTE Confidence: 0.9994974  
00:29:50.165 --> 00:29:50.665 surgery.  
NOTE Confidence: 0.9892225  
00:29:51.445 --> 00:29:52.185 And so  
NOTE Confidence: 0.9745094  
00:29:53.090 --> 00:29:54.130 in sort of putting this  
NOTE Confidence: 0.9745094  
00:29:54.130 --> 00:29:55.650 together, forty five percent of  
NOTE Confidence: 0.9745094  
00:29:55.650 --> 00:29:57.490 people, if you do the  
NOTE Confidence: 0.9745094  
00:29:57.490 --> 00:29:58.630 SANO protocol,  
NOTE Confidence: 0.88504374  
00:29:59.490 --> 00:30:00.390 give CROS,  
NOTE Confidence: 0.9519479  
00:30:00.770 --> 00:30:01.510 and then,  
NOTE Confidence: 0.9639753  
00:30:02.690 --> 00:30:03.510 do these,  
NOTE Confidence: 0.9917889

00:30:04.050 --> 00:30:04.950 serial endoscopies,  
NOTE Confidence: 0.9827587

00:30:05.730 --> 00:30:07.425 six weeks and twelve weeks,  
NOTE Confidence: 0.9827587

00:30:07.505 --> 00:30:09.025 you're gonna find a complete  
NOTE Confidence: 0.9827587

00:30:09.025 --> 00:30:10.545 clinical response in about forty  
NOTE Confidence: 0.9827587

00:30:10.545 --> 00:30:11.685 five percent of people,  
NOTE Confidence: 0.99912894

00:30:12.225 --> 00:30:13.765 but two thirds of them  
NOTE Confidence: 0.98846745

00:30:14.065 --> 00:30:15.445 actually still have cancer.  
NOTE Confidence: 0.9976707

00:30:16.465 --> 00:30:17.905 And about sixteen percent of  
NOTE Confidence: 0.9976707

00:30:17.905 --> 00:30:19.365 people seem to be  
NOTE Confidence: 0.9997332

00:30:19.745 --> 00:30:20.805 disease free  
NOTE Confidence: 0.76636404

00:30:21.425 --> 00:30:22.325 after cross  
NOTE Confidence: 0.99573463

00:30:22.705 --> 00:30:24.120 only. So if you just  
NOTE Confidence: 0.99573463

00:30:24.120 --> 00:30:25.340 give people chemoradiation,  
NOTE Confidence: 0.99103373

00:30:26.120 --> 00:30:27.340 predominantly adenocarcinoma,  
NOTE Confidence: 0.9993347

00:30:27.640 --> 00:30:29.260 about sixteen percent of people  
NOTE Confidence: 0.9729315

00:30:29.880 --> 00:30:31.720 are alive and disease free

NOTE Confidence: 0.9729315

00:30:31.720 --> 00:30:33.560 at two years. So it's

NOTE Confidence: 0.9729315

00:30:33.560 --> 00:30:34.680 not a huge number, but

NOTE Confidence: 0.9729315

00:30:34.680 --> 00:30:36.280 it is the it is

NOTE Confidence: 0.9729315

00:30:36.280 --> 00:30:36.940 a number,

NOTE Confidence: 0.87888175

00:30:37.720 --> 00:30:38.940 a reasonable number.

NOTE Confidence: 0.97834647

00:30:39.405 --> 00:30:40.065 And so,

NOTE Confidence: 0.97622484

00:30:41.005 --> 00:30:42.465 you know, again, because,

NOTE Confidence: 0.9734676

00:30:43.085 --> 00:30:44.685 of people with persistent cancer,

NOTE Confidence: 0.9734676

00:30:44.685 --> 00:30:46.605 people that develop metastases, people

NOTE Confidence: 0.9734676

00:30:46.605 --> 00:30:48.365 who have recurrent cancer who

NOTE Confidence: 0.9734676

00:30:48.365 --> 00:30:49.505 were once cleared,

NOTE Confidence: 0.972903

00:30:50.685 --> 00:30:52.125 that's sort of the impact.

NOTE Confidence: 0.972903

00:30:52.125 --> 00:30:53.665 So we're you're really deferring

NOTE Confidence: 0.972903

00:30:53.725 --> 00:30:54.225 treatment

NOTE Confidence: 0.99051374

00:30:55.420 --> 00:30:56.860 for the possibility that people

NOTE Confidence: 0.99051374

00:30:56.860 --> 00:30:58.060 have been cured with their  
NOTE Confidence: 0.99051374

00:30:58.060 --> 00:30:58.560 nonsurgical  
NOTE Confidence: 0.9926735

00:30:59.020 --> 00:30:59.520 approach.  
NOTE Confidence: 0.98718846

00:31:00.540 --> 00:31:02.240 And this is not terribly  
NOTE Confidence: 0.98718846

00:31:02.460 --> 00:31:04.060 different from what we would  
NOTE Confidence: 0.98718846

00:31:04.060 --> 00:31:05.180 see we saw in the  
NOTE Confidence: 0.98718846

00:31:05.180 --> 00:31:07.360 German trial with chemo radiation  
NOTE Confidence: 0.98866427

00:31:08.225 --> 00:31:08.725 alone.  
NOTE Confidence: 0.9697684

00:31:09.745 --> 00:31:11.105 The French trial was a  
NOTE Confidence: 0.9697684

00:31:11.105 --> 00:31:12.565 little bit, better  
NOTE Confidence: 0.9512028

00:31:12.945 --> 00:31:15.045 in terms of, survival. But  
NOTE Confidence: 0.9512028

00:31:15.265 --> 00:31:17.345 sixteen percent cure rate,  
NOTE Confidence: 0.93695664

00:31:17.825 --> 00:31:18.565 is not,  
NOTE Confidence: 0.9088847

00:31:19.425 --> 00:31:20.305 is is it you know,  
NOTE Confidence: 0.9088847

00:31:20.305 --> 00:31:21.505 sixteen to twenty percent, I  
NOTE Confidence: 0.9088847

00:31:21.505 --> 00:31:22.565 think, is a reasonable

NOTE Confidence: 0.9993412

00:31:23.480 --> 00:31:23.980 expectation

NOTE Confidence: 0.9707614

00:31:24.440 --> 00:31:27.260 for nonsurgically managed, particularly adenocarcinoma.

NOTE Confidence: 0.9921823

00:31:28.680 --> 00:31:30.040 But there were people that

NOTE Confidence: 0.9921823

00:31:30.040 --> 00:31:31.560 surgery is unlikely to help,

NOTE Confidence: 0.9921823

00:31:31.560 --> 00:31:33.720 people that develop metastases, and

NOTE Confidence: 0.9921823

00:31:33.720 --> 00:31:34.920 there were some people that

NOTE Confidence: 0.9921823

00:31:34.920 --> 00:31:36.520 were cured. And when you

NOTE Confidence: 0.9921823

00:31:36.520 --> 00:31:38.300 add all of those up,

NOTE Confidence: 0.95019454

00:31:39.105 --> 00:31:40.385 you know, there is probably

NOTE Confidence: 0.95019454

00:31:40.385 --> 00:31:42.005 a twenty, twenty five percent,

NOTE Confidence: 0.9777635

00:31:43.745 --> 00:31:44.705 if not a few more

NOTE Confidence: 0.9777635

00:31:44.705 --> 00:31:46.065 that surgery is really not

NOTE Confidence: 0.9777635

00:31:46.065 --> 00:31:47.745 helping. And the question is,

NOTE Confidence: 0.9777635

00:31:47.745 --> 00:31:48.945 can you figure this out?

NOTE Confidence: 0.9777635

00:31:48.945 --> 00:31:49.905 If you knew this ahead

NOTE Confidence: 0.9777635

00:31:49.905 --> 00:31:51.185 of time, who could who

NOTE Confidence: 0.9777635

00:31:51.185 --> 00:31:52.725 was cured by nonsurgical

NOTE Confidence: 0.9893162

00:31:53.025 --> 00:31:54.899 treatment and who was just

NOTE Confidence: 0.9893162

00:31:54.899 --> 00:31:55.399 incurable,

NOTE Confidence: 0.97806865

00:31:56.179 --> 00:31:57.220 that would be very helpful.

NOTE Confidence: 0.97806865

00:31:57.220 --> 00:31:58.019 And I think this is

NOTE Confidence: 0.97806865

00:31:58.019 --> 00:31:59.620 where the most exciting research

NOTE Confidence: 0.97806865

00:31:59.620 --> 00:32:00.820 is coming because this is

NOTE Confidence: 0.97806865

00:32:00.820 --> 00:32:01.940 going to happen in our

NOTE Confidence: 0.97806865

00:32:01.940 --> 00:32:02.440 lifetime,

NOTE Confidence: 0.9736802

00:32:03.460 --> 00:32:05.240 perhaps with cell free DNA,

NOTE Confidence: 0.9415818

00:32:06.914 --> 00:32:08.914 probably not with circulating tumor

NOTE Confidence: 0.9415818

00:32:08.914 --> 00:32:10.434 cells, which was some of

NOTE Confidence: 0.9415818

00:32:10.434 --> 00:32:11.735 my research, unfortunately.

NOTE Confidence: 0.9859126

00:32:12.275 --> 00:32:14.195 But I think AI looking

NOTE Confidence: 0.9859126

00:32:14.195 --> 00:32:15.794 at using AI to look  
NOTE Confidence: 0.9859126

00:32:15.794 --> 00:32:16.934 at a lot of,  
NOTE Confidence: 0.98887444

00:32:17.554 --> 00:32:18.615 either radiomics  
NOTE Confidence: 0.99472517

00:32:19.075 --> 00:32:19.575 or  
NOTE Confidence: 0.95637155

00:32:22.320 --> 00:32:22.820 micrographs.  
NOTE Confidence: 0.9963859

00:32:23.840 --> 00:32:25.380 I do think there's enormous  
NOTE Confidence: 0.9963859

00:32:25.520 --> 00:32:26.020 potential  
NOTE Confidence: 0.9810232

00:32:26.720 --> 00:32:28.640 to understand what's going on  
NOTE Confidence: 0.9810232

00:32:28.640 --> 00:32:30.240 with our cancers and our  
NOTE Confidence: 0.9810232

00:32:30.240 --> 00:32:30.740 treatment,  
NOTE Confidence: 0.99776375

00:32:31.679 --> 00:32:33.120 so that we can much  
NOTE Confidence: 0.99776375

00:32:33.120 --> 00:32:35.040 more accurately assess things. And  
NOTE Confidence: 0.99776375

00:32:35.040 --> 00:32:36.515 so just to close,  
NOTE Confidence: 0.9845078

00:32:37.055 --> 00:32:38.675 again, coming back to the  
NOTE Confidence: 0.9845078

00:32:38.815 --> 00:32:40.415 the horrors of what is  
NOTE Confidence: 0.9845078

00:32:40.415 --> 00:32:41.155 an esophagectomy,

NOTE Confidence: 0.998901  
00:32:43.215 --> 00:32:44.255 I I just think it's  
NOTE Confidence: 0.998901  
00:32:44.255 --> 00:32:46.115 a different era. I think  
NOTE Confidence: 0.9974014  
00:32:46.495 --> 00:32:46.995 esophagectomies  
NOTE Confidence: 0.9997845  
00:32:47.455 --> 00:32:48.655 can be done safely. I  
NOTE Confidence: 0.9997845  
00:32:48.655 --> 00:32:50.175 think people can return to  
NOTE Confidence: 0.9997845  
00:32:50.175 --> 00:32:51.475 their quality of life  
NOTE Confidence: 0.95426214  
00:32:51.799 --> 00:32:53.740 as, as an expectation.  
NOTE Confidence: 0.98304546  
00:32:55.000 --> 00:32:56.280 But I do think this  
NOTE Confidence: 0.98304546  
00:32:56.280 --> 00:32:57.480 is a Henry Ford quote.  
NOTE Confidence: 0.98304546  
00:32:57.480 --> 00:32:58.360 Whether you think it can  
NOTE Confidence: 0.98304546  
00:32:58.360 --> 00:32:59.320 be done or you do  
NOTE Confidence: 0.98304546  
00:32:59.320 --> 00:32:59.820 not,  
NOTE Confidence: 0.99927366  
00:33:00.360 --> 00:33:01.880 you are probably right. I  
NOTE Confidence: 0.99927366  
00:33:01.880 --> 00:33:02.620 think that  
NOTE Confidence: 0.940244  
00:33:03.904 --> 00:33:04.404 there  
NOTE Confidence: 0.997559

00:33:04.865 --> 00:33:06.144 it is not a given  
NOTE Confidence: 0.997559

00:33:06.144 --> 00:33:06.625 that,  
NOTE Confidence: 0.99936074

00:33:06.945 --> 00:33:08.304 that your surgery is gonna  
NOTE Confidence: 0.99936074

00:33:08.304 --> 00:33:09.345 be done in a way  
NOTE Confidence: 0.99936074

00:33:09.345 --> 00:33:10.784 that's gonna leave you highly  
NOTE Confidence: 0.99936074

00:33:10.784 --> 00:33:11.284 functional.  
NOTE Confidence: 0.9808448

00:33:12.144 --> 00:33:13.044 I think Connecticut,  
NOTE Confidence: 0.9998648

00:33:13.664 --> 00:33:15.125 is blessed to have  
NOTE Confidence: 0.94678783

00:33:16.799 --> 00:33:18.500 a a number of talented,  
NOTE Confidence: 0.99126846

00:33:19.120 --> 00:33:21.779 teams, that perform esophageal cancer.  
NOTE Confidence: 0.9665495

00:33:22.559 --> 00:33:23.760 We are a three star  
NOTE Confidence: 0.9665495

00:33:23.760 --> 00:33:24.880 program for the Society of  
NOTE Confidence: 0.9665495

00:33:24.880 --> 00:33:26.080 Thoracic Surgeons, but I can  
NOTE Confidence: 0.9665495

00:33:26.080 --> 00:33:27.220 tell you we've trained,  
NOTE Confidence: 0.97539717

00:33:27.840 --> 00:33:28.720 a lot of people in  
NOTE Confidence: 0.97539717

00:33:28.720 --> 00:33:29.679 the state, and we are

NOTE Confidence: 0.97539717  
00:33:29.679 --> 00:33:30.240 not the only,  
NOTE Confidence: 0.9950011  
00:33:30.945 --> 00:33:31.985 we're not the only group  
NOTE Confidence: 0.9950011  
00:33:31.985 --> 00:33:33.605 that does this, well.  
NOTE Confidence: 0.98304176  
00:33:34.065 --> 00:33:34.565 So  
NOTE Confidence: 0.97702026  
00:33:35.024 --> 00:33:35.684 thank you,  
NOTE Confidence: 0.9999101  
00:33:36.065 --> 00:33:36.804 very much.  
NOTE Confidence: 0.9466847  
00:33:39.105 --> 00:33:40.884 Thanks very much, doctor Buffet,  
NOTE Confidence: 0.9928713  
00:33:41.264 --> 00:33:43.264 for reinforcing the importance of  
NOTE Confidence: 0.9928713  
00:33:43.264 --> 00:33:44.625 surgery in in this very  
NOTE Confidence: 0.9928713  
00:33:44.625 --> 00:33:46.590 difficult to treat, tumor type.  
NOTE Confidence: 0.9685074  
00:33:49.470 --> 00:33:51.230 No questions? Okay. Next, we  
NOTE Confidence: 0.9685074  
00:33:51.230 --> 00:33:52.429 move on to doctor Du.  
NOTE Confidence: 0.9685074  
00:33:52.429 --> 00:33:53.470 He's gonna talk to us  
NOTE Confidence: 0.9685074  
00:33:53.470 --> 00:33:55.090 about the advances in radiation  
NOTE Confidence: 0.9685074  
00:33:55.150 --> 00:33:55.650 oncology.  
NOTE Confidence: 0.94694513

00:33:59.245 --> 00:34:00.625 Okay. Hello, everyone.  
NOTE Confidence: 0.9922366

00:34:01.405 --> 00:34:03.405 I'm just going to share  
NOTE Confidence: 0.9922366

00:34:03.405 --> 00:34:04.705 my slides here.  
NOTE Confidence: 0.97506094

00:34:05.965 --> 00:34:06.465 And,  
NOTE Confidence: 0.98332995

00:34:07.085 --> 00:34:08.385 are you seeing my presentation  
NOTE Confidence: 0.98332995

00:34:08.605 --> 00:34:09.105 page?  
NOTE Confidence: 0.85860324

00:34:10.285 --> 00:34:11.244 I think you need to  
NOTE Confidence: 0.85860324

00:34:11.244 --> 00:34:12.844 swap it, Kevin. Okay. Got  
NOTE Confidence: 0.85860324

00:34:12.844 --> 00:34:13.665 it. Sorry.  
NOTE Confidence: 0.88501173

00:34:26.010 --> 00:34:26.325 Let's,  
NOTE Confidence: 0.9955907

00:34:34.484 --> 00:34:35.385 There you go.  
NOTE Confidence: 0.9964014

00:34:36.005 --> 00:34:36.505 Okay.  
NOTE Confidence: 0.98043716

00:34:37.204 --> 00:34:38.405 So my name is Kevin  
NOTE Confidence: 0.98043716

00:34:38.405 --> 00:34:39.945 Du, and, I'm  
NOTE Confidence: 0.99901706

00:34:40.310 --> 00:34:41.050 one of the  
NOTE Confidence: 0.8267833

00:34:41.350 --> 00:34:42.410 radiation oncologists

NOTE Confidence: 0.90305704  
00:34:42.790 --> 00:34:44.650 in the department of therapeutic  
NOTE Confidence: 0.90305704  
00:34:44.710 --> 00:34:45.210 radiology,  
NOTE Confidence: 0.96339506  
00:34:46.150 --> 00:34:47.750 here at Yale and, also  
NOTE Confidence: 0.96339506  
00:34:47.750 --> 00:34:49.350 medical director of the Trumbull  
NOTE Confidence: 0.96339506  
00:34:49.350 --> 00:34:50.869 Radiation Oncology Center at the  
NOTE Confidence: 0.96339506  
00:34:50.869 --> 00:34:51.690 Park Avenue,  
NOTE Confidence: 0.94953036  
00:34:51.989 --> 00:34:52.890 Medical Center.  
NOTE Confidence: 0.99657947  
00:34:53.590 --> 00:34:54.090 So  
NOTE Confidence: 0.9707493  
00:34:54.675 --> 00:34:56.355 it's really nice to, spend  
NOTE Confidence: 0.9707493  
00:34:56.355 --> 00:34:57.555 some time here talking with  
NOTE Confidence: 0.9707493  
00:34:57.555 --> 00:34:58.275 you about,  
NOTE Confidence: 0.9648293  
00:34:59.075 --> 00:35:01.415 radiation treatment for esophageal cancer.  
NOTE Confidence: 0.91182536  
00:35:02.114 --> 00:35:04.035 And, for unfortunately, I have  
NOTE Confidence: 0.91182536  
00:35:04.035 --> 00:35:04.775 no disclosures.  
NOTE Confidence: 0.99150413  
00:35:05.875 --> 00:35:06.375 The  
NOTE Confidence: 0.7734925

00:35:07.290 --> 00:35:09.050 modern radiation therapy, I just

NOTE Confidence: 0.8473615

00:35:09.530 --> 00:35:10.350 a word,

NOTE Confidence: 0.9826924

00:35:10.730 --> 00:35:11.690 to give you my thoughts

NOTE Confidence: 0.9826924

00:35:11.690 --> 00:35:13.130 is really, I think, you

NOTE Confidence: 0.9826924

00:35:13.130 --> 00:35:14.650 know, all about trying to

NOTE Confidence: 0.9826924

00:35:14.650 --> 00:35:15.150 use

NOTE Confidence: 0.83936524

00:35:15.610 --> 00:35:16.830 radiation biology,

NOTE Confidence: 0.91227627

00:35:17.530 --> 00:35:19.469 advances in physics and computing

NOTE Confidence: 0.91227627

00:35:19.610 --> 00:35:20.110 technology

NOTE Confidence: 0.99875855

00:35:20.755 --> 00:35:21.494 to really

NOTE Confidence: 0.96470207

00:35:22.355 --> 00:35:24.994 improve our therapeutic index. And,

NOTE Confidence: 0.96470207

00:35:25.155 --> 00:35:26.195 there's been a lot of

NOTE Confidence: 0.96470207

00:35:26.195 --> 00:35:28.215 really incredible advances in radiation

NOTE Confidence: 0.9804943

00:35:28.675 --> 00:35:30.375 in the past twenty years.

NOTE Confidence: 0.9365997

00:35:31.155 --> 00:35:33.075 And, really, ultimately, you know,

NOTE Confidence: 0.9365997

00:35:33.075 --> 00:35:34.650 the the kind of the

NOTE Confidence: 0.9365997

00:35:34.650 --> 00:35:35.930 the holy grail for for

NOTE Confidence: 0.9365997

00:35:35.930 --> 00:35:37.130 radiation is really how can

NOTE Confidence: 0.9365997

00:35:37.130 --> 00:35:38.589 we improve functional

NOTE Confidence: 0.9343601

00:35:39.210 --> 00:35:40.829 preservation, organ preservation,

NOTE Confidence: 0.8788292

00:35:41.690 --> 00:35:43.950 and how can we improve

NOTE Confidence: 0.955563

00:35:44.489 --> 00:35:46.570 pathologic complete response and cure

NOTE Confidence: 0.955563

00:35:46.570 --> 00:35:48.030 more patients with radiation.

NOTE Confidence: 0.9700335

00:35:48.895 --> 00:35:49.215 And,

NOTE Confidence: 0.9820822

00:35:49.695 --> 00:35:51.375 so for esophageal cancer, this

NOTE Confidence: 0.9820822

00:35:51.375 --> 00:35:52.995 has actually been looked at

NOTE Confidence: 0.9293524

00:35:53.375 --> 00:35:55.055 really quite a bit in,

NOTE Confidence: 0.9293524

00:35:55.455 --> 00:35:57.215 in in the past, forty

NOTE Confidence: 0.9293524

00:35:57.215 --> 00:35:58.195 years or so.

NOTE Confidence: 0.89959097

00:35:58.495 --> 00:36:00.415 And, just to kind of,

NOTE Confidence: 0.89959097

00:36:00.575 --> 00:36:01.075 give

NOTE Confidence: 0.82076246

00:36:01.535 --> 00:36:03.955 a basic overview, everyone, I  
NOTE Confidence: 0.97801113

00:36:04.460 --> 00:36:05.739 I I think, may may  
NOTE Confidence: 0.97801113

00:36:05.739 --> 00:36:07.359 be familiar with this, but  
NOTE Confidence: 0.97801113

00:36:07.420 --> 00:36:08.700 we have two different types  
NOTE Confidence: 0.97801113

00:36:08.700 --> 00:36:10.779 of esophageal cancers. And and,  
NOTE Confidence: 0.97801113

00:36:10.779 --> 00:36:12.140 really, in the modern era  
NOTE Confidence: 0.97801113

00:36:12.140 --> 00:36:13.900 of esophageal cancer treatment, we  
NOTE Confidence: 0.97801113

00:36:13.900 --> 00:36:15.660 approach each one differently in  
NOTE Confidence: 0.97801113

00:36:15.660 --> 00:36:16.700 terms of how we think  
NOTE Confidence: 0.97801113

00:36:16.700 --> 00:36:18.239 about radiation. So,  
NOTE Confidence: 0.99466515

00:36:18.894 --> 00:36:20.994 squamous cell cancers and adenocarcinomas  
NOTE Confidence: 0.98722965

00:36:21.694 --> 00:36:22.914 being the two histologies.  
NOTE Confidence: 0.94850653

00:36:23.614 --> 00:36:24.894 And then we also think  
NOTE Confidence: 0.94850653

00:36:24.894 --> 00:36:26.355 when we think about considerations  
NOTE Confidence: 0.94850653

00:36:26.575 --> 00:36:27.234 of radiation,  
NOTE Confidence: 0.9759303

00:36:27.775 --> 00:36:28.734 what the look where the

NOTE Confidence: 0.9759303  
00:36:28.734 --> 00:36:30.335 location of the cancer is.  
NOTE Confidence: 0.9759303  
00:36:30.335 --> 00:36:31.375 Is it in the upper  
NOTE Confidence: 0.9759303  
00:36:31.375 --> 00:36:32.434 cervical esophagus,  
NOTE Confidence: 0.99494123  
00:36:32.790 --> 00:36:34.710 the middle thoracic, or lower  
NOTE Confidence: 0.99494123  
00:36:34.710 --> 00:36:35.210 thoracic  
NOTE Confidence: 0.6918688  
00:36:36.469 --> 00:36:36.969 locations,  
NOTE Confidence: 0.99430895  
00:36:37.670 --> 00:36:39.610 and how that might affect  
NOTE Confidence: 0.885874  
00:36:40.630 --> 00:36:42.090 radiation decision making?  
NOTE Confidence: 0.97016466  
00:36:43.350 --> 00:36:45.030 And, over the years, you  
NOTE Confidence: 0.97016466  
00:36:45.030 --> 00:36:46.404 know, we've used a lot  
NOTE Confidence: 0.97016466  
00:36:46.404 --> 00:36:48.565 of different regimens. But as,  
NOTE Confidence: 0.97016466  
00:36:48.805 --> 00:36:51.065 this panel shows, we've really  
NOTE Confidence: 0.9254551  
00:36:51.765 --> 00:36:52.884 focused a lot in the  
NOTE Confidence: 0.9254551  
00:36:52.884 --> 00:36:54.424 United States and,  
NOTE Confidence: 0.54207313  
00:36:55.285 --> 00:36:56.025 and Europe  
NOTE Confidence: 0.99338007

00:36:56.325 --> 00:36:57.785 in terms of looking at  
NOTE Confidence: 0.9804342

00:36:58.085 --> 00:36:59.384 combination of chemotherapy,  
NOTE Confidence: 0.9941321

00:36:59.684 --> 00:37:00.984 radiation, and surgery.  
NOTE Confidence: 0.75358367

00:37:01.710 --> 00:37:02.109 And,  
NOTE Confidence: 0.9558782

00:37:02.510 --> 00:37:04.030 since the nineteen eighties, there  
NOTE Confidence: 0.9558782

00:37:04.030 --> 00:37:05.790 have been many clinical trials  
NOTE Confidence: 0.9558782

00:37:05.790 --> 00:37:06.770 looking at this,  
NOTE Confidence: 0.9591956

00:37:07.230 --> 00:37:08.349 and this is all kind  
NOTE Confidence: 0.9591956

00:37:08.349 --> 00:37:09.869 of put together in some  
NOTE Confidence: 0.9591956

00:37:09.869 --> 00:37:11.550 nice meta analysis a few  
NOTE Confidence: 0.9591956

00:37:11.550 --> 00:37:12.290 years ago,  
NOTE Confidence: 0.9439774

00:37:13.070 --> 00:37:14.670 showing really, you know, kind  
NOTE Confidence: 0.9439774

00:37:14.670 --> 00:37:15.905 of in this as we  
NOTE Confidence: 0.9439774

00:37:15.905 --> 00:37:18.065 look down the this, the  
NOTE Confidence: 0.9439774

00:37:18.065 --> 00:37:19.685 the unity line here that  
NOTE Confidence: 0.9439774

00:37:19.825 --> 00:37:21.425 many of these trials with

NOTE Confidence: 0.9439774

00:37:21.425 --> 00:37:21.925 chemoradiation

NOTE Confidence: 0.92038345

00:37:22.705 --> 00:37:24.405 before rate, surgery

NOTE Confidence: 0.9687857

00:37:24.864 --> 00:37:26.705 suggest a benefit, but not

NOTE Confidence: 0.9687857

00:37:26.705 --> 00:37:29.364 necessarily a statistically significant benefit.

NOTE Confidence: 0.9687857

00:37:29.619 --> 00:37:30.540 But when you combine all

NOTE Confidence: 0.9687857

00:37:30.540 --> 00:37:32.180 of them together, there is

NOTE Confidence: 0.9687857

00:37:32.180 --> 00:37:34.599 something that suggests favoring chemoradiation

NOTE Confidence: 0.9925588

00:37:35.060 --> 00:37:36.520 for esophageal cancers.

NOTE Confidence: 0.9511579

00:37:36.900 --> 00:37:38.599 And very similarly, for chemotherapy

NOTE Confidence: 0.9511579

00:37:38.820 --> 00:37:39.719 without radiation,

NOTE Confidence: 0.9277053

00:37:40.739 --> 00:37:41.219 also,

NOTE Confidence: 0.9193794

00:37:41.540 --> 00:37:43.140 crossing unity. But then when

NOTE Confidence: 0.9193794

00:37:43.140 --> 00:37:44.359 you put them all together,

NOTE Confidence: 0.7760742

00:37:45.174 --> 00:37:46.234 potentially suggesting,

NOTE Confidence: 0.9674092

00:37:46.694 --> 00:37:48.214 although just touching unity,

NOTE Confidence: 0.97795504

00:37:48.614 --> 00:37:51.114 favoring chemotherapy. And so despite,

NOTE Confidence: 0.98826003

00:37:51.655 --> 00:37:52.694 I would say, maybe about

NOTE Confidence: 0.98826003

00:37:52.694 --> 00:37:54.214 twenty years of clinical trial

NOTE Confidence: 0.98826003

00:37:54.214 --> 00:37:54.714 work,

NOTE Confidence: 0.9342064

00:37:55.174 --> 00:37:56.555 the question still remained,

NOTE Confidence: 0.9798894

00:37:57.575 --> 00:37:59.120 really, you know, what what

NOTE Confidence: 0.9798894

00:37:59.280 --> 00:38:00.719 is it is anything better

NOTE Confidence: 0.9798894

00:38:00.719 --> 00:38:02.960 than surgery alone? And, this

NOTE Confidence: 0.9798894

00:38:02.960 --> 00:38:03.620 is where,

NOTE Confidence: 0.87326354

00:38:04.640 --> 00:38:06.739 the cross trial really,

NOTE Confidence: 0.998431

00:38:07.200 --> 00:38:07.700 changed

NOTE Confidence: 0.73964566

00:38:08.000 --> 00:38:08.900 was it was,

NOTE Confidence: 0.94054

00:38:09.280 --> 00:38:10.420 changed the paradigm,

NOTE Confidence: 0.9540043

00:38:10.800 --> 00:38:12.260 when it was published. And,

NOTE Confidence: 0.93443114

00:38:13.280 --> 00:38:15.065 and this is looking at,

NOTE Confidence: 0.93443114

00:38:15.385 --> 00:38:15.885 carboxyl

NOTE Confidence: 0.99076957  
00:38:16.424 --> 00:38:16.924 chemotherapy  
NOTE Confidence: 0.9990444  
00:38:17.305 --> 00:38:17.964 with radiation  
NOTE Confidence: 0.9782662  
00:38:18.265 --> 00:38:19.244 prior to surgery,  
NOTE Confidence: 0.93591636  
00:38:19.864 --> 00:38:21.144 compared to surgery alone. And  
NOTE Confidence: 0.93591636  
00:38:21.144 --> 00:38:22.505 there was an overall survival  
NOTE Confidence: 0.93591636  
00:38:22.505 --> 00:38:23.005 benefit,  
NOTE Confidence: 0.81718564  
00:38:23.464 --> 00:38:25.005 using new adjuvant chemoradiation  
NOTE Confidence: 0.88863987  
00:38:25.785 --> 00:38:27.164 compared to surgery alone.  
NOTE Confidence: 0.99396664  
00:38:28.025 --> 00:38:29.700 When you break out squamous  
NOTE Confidence: 0.99396664  
00:38:29.700 --> 00:38:31.320 cell cancers and adenocarcinomas,  
NOTE Confidence: 0.9906285  
00:38:32.260 --> 00:38:32.760 really,  
NOTE Confidence: 0.9663272  
00:38:33.060 --> 00:38:34.980 it became very clear that  
NOTE Confidence: 0.9663272  
00:38:34.980 --> 00:38:36.660 the survival benefit for the  
NOTE Confidence: 0.9663272  
00:38:36.660 --> 00:38:38.340 CROS trial is really driven  
NOTE Confidence: 0.9663272  
00:38:38.340 --> 00:38:40.520 by, the squamous cell cancer  
NOTE Confidence: 0.9663272

00:38:40.580 --> 00:38:42.420 subset and and not as  
NOTE Confidence: 0.9663272

00:38:42.420 --> 00:38:43.640 much by the adenocarcinoma  
NOTE Confidence: 0.9963119

00:38:45.094 --> 00:38:46.315 esophageal cancers.  
NOTE Confidence: 0.9567976

00:38:47.335 --> 00:38:48.954 And, really interestingly,  
NOTE Confidence: 0.9067021

00:38:49.654 --> 00:38:50.795 you know, carboxyl  
NOTE Confidence: 0.95799625

00:38:51.575 --> 00:38:53.515 did not seem to affect,  
NOTE Confidence: 0.99658513

00:38:54.055 --> 00:38:55.035 distant recurrence  
NOTE Confidence: 0.9830616

00:38:55.414 --> 00:38:57.414 rates. That is, that even  
NOTE Confidence: 0.9830616

00:38:57.414 --> 00:38:59.194 though this combination of chemotherapy  
NOTE Confidence: 0.9684183

00:38:59.494 --> 00:38:59.994 radiation  
NOTE Confidence: 0.9995074

00:39:00.375 --> 00:39:00.750 was  
NOTE Confidence: 0.88127804

00:39:01.230 --> 00:39:01.730 better,  
NOTE Confidence: 0.8810759

00:39:02.110 --> 00:39:04.690 at at reducing local regional  
NOTE Confidence: 0.8810759

00:39:04.750 --> 00:39:05.250 recurrence,  
NOTE Confidence: 0.9012535

00:39:06.270 --> 00:39:06.750 that,  
NOTE Confidence: 0.97523874

00:39:07.630 --> 00:39:08.750 it it really didn't seem

NOTE Confidence: 0.97523874

00:39:08.750 --> 00:39:10.350 to decrease the rate of

NOTE Confidence: 0.97523874

00:39:10.350 --> 00:39:12.370 distant metastatic disease. So,

NOTE Confidence: 0.93356186

00:39:12.750 --> 00:39:14.430 ultimately, the conclusion from the

NOTE Confidence: 0.93356186

00:39:14.430 --> 00:39:15.250 CROS trial,

NOTE Confidence: 0.9563751

00:39:16.164 --> 00:39:17.645 my takeaway is that it

NOTE Confidence: 0.9563751

00:39:17.765 --> 00:39:19.385 it's a really good regimen

NOTE Confidence: 0.9563751

00:39:19.684 --> 00:39:21.545 probably for squamous cell cancers,

NOTE Confidence: 0.9989249

00:39:22.325 --> 00:39:23.924 but we probably can do

NOTE Confidence: 0.9989249

00:39:23.924 --> 00:39:25.305 better for adenocarcinomas.

NOTE Confidence: 0.9750802

00:39:27.605 --> 00:39:28.105 And

NOTE Confidence: 0.99273163

00:39:28.969 --> 00:39:29.930 there's been a lot of

NOTE Confidence: 0.99273163

00:39:29.930 --> 00:39:31.930 trials since then reported about

NOTE Confidence: 0.99273163

00:39:31.930 --> 00:39:32.910 effective chemotherapy

NOTE Confidence: 0.98968965

00:39:33.210 --> 00:39:33.950 for adenocarcinomas.

NOTE Confidence: 0.95302373

00:39:34.650 --> 00:39:36.829 And, looking at more

NOTE Confidence: 0.8715957

00:39:37.289 --> 00:39:37.789 aggressive  
NOTE Confidence: 0.9989544

00:39:38.650 --> 00:39:39.150 chemotherapies,  
NOTE Confidence: 0.9139224

00:39:40.890 --> 00:39:43.069 it does seem that chemotherapy  
NOTE Confidence: 0.98036945

00:39:44.385 --> 00:39:45.825 may be equivalent or better  
NOTE Confidence: 0.98036945

00:39:45.825 --> 00:39:46.565 than chemoradiation  
NOTE Confidence: 0.9961568

00:39:47.025 --> 00:39:48.145 in the setting of surgical  
NOTE Confidence: 0.9961568

00:39:48.145 --> 00:39:49.364 resections for adenocarcinomas.  
NOTE Confidence: 0.9782527

00:39:49.825 --> 00:39:50.625 And I'm just going to  
NOTE Confidence: 0.9782527

00:39:50.625 --> 00:39:51.745 focus on one of those  
NOTE Confidence: 0.9782527

00:39:51.745 --> 00:39:53.505 trials, the ISOPEC trial, which  
NOTE Confidence: 0.9782527

00:39:53.505 --> 00:39:54.325 made a big  
NOTE Confidence: 0.93456566

00:39:55.105 --> 00:39:56.705 splash this year, very high  
NOTE Confidence: 0.93456566

00:39:56.705 --> 00:39:58.860 impact, high profile publication.  
NOTE Confidence: 0.9068372

00:39:59.800 --> 00:40:00.840 And, this,  
NOTE Confidence: 0.9576851

00:40:01.400 --> 00:40:03.900 was run looking at randomizing  
NOTE Confidence: 0.77799994

00:40:05.239 --> 00:40:05.739 perioperative

NOTE Confidence: 0.81196034  
00:40:06.200 --> 00:40:07.100 FLOT chemotherapy,  
NOTE Confidence: 0.92056715  
00:40:08.200 --> 00:40:09.719 compared to the cross regimen  
NOTE Confidence: 0.92056715  
00:40:09.719 --> 00:40:10.605 of carboxyl  
NOTE Confidence: 0.95658016  
00:40:10.985 --> 00:40:12.045 and and radiation,  
NOTE Confidence: 0.99887335  
00:40:12.745 --> 00:40:13.565 for adenocarcinomas.  
NOTE Confidence: 0.9617509  
00:40:14.745 --> 00:40:17.065 And, it showed that the  
NOTE Confidence: 0.9617509  
00:40:17.065 --> 00:40:18.205 survival was improved  
NOTE Confidence: 0.78997606  
00:40:18.505 --> 00:40:18.905 with,  
NOTE Confidence: 0.9902141  
00:40:19.625 --> 00:40:20.125 perioperative  
NOTE Confidence: 0.9996723  
00:40:20.425 --> 00:40:20.925 chemotherapy  
NOTE Confidence: 0.78782034  
00:40:21.225 --> 00:40:21.725 flot,  
NOTE Confidence: 0.95808756  
00:40:22.185 --> 00:40:23.965 compared to the CROS regimen,  
NOTE Confidence: 0.8909981  
00:40:25.310 --> 00:40:27.230 with a really impressive five  
NOTE Confidence: 0.8909981  
00:40:27.230 --> 00:40:28.770 year overall survival rates.  
NOTE Confidence: 0.97282887  
00:40:29.070 --> 00:40:29.390 And,  
NOTE Confidence: 0.92552495

00:40:29.870 --> 00:40:30.370 even,  
NOTE Confidence: 0.9898635

00:40:30.910 --> 00:40:31.730 in adenocarcinomas,  
NOTE Confidence: 0.8897419

00:40:33.150 --> 00:40:36.050 with, aggressive chemotherapy, FLOT regimen,  
NOTE Confidence: 0.9797493

00:40:36.510 --> 00:40:38.830 an improved pathologic complete response  
NOTE Confidence: 0.9797493

00:40:38.830 --> 00:40:40.215 rate compared to the CROS  
NOTE Confidence: 0.9797493

00:40:40.295 --> 00:40:40.795 regimen.  
NOTE Confidence: 0.9764259

00:40:41.495 --> 00:40:42.395 And so  
NOTE Confidence: 0.9540929

00:40:42.695 --> 00:40:44.295 the ISOPEG trial really showed  
NOTE Confidence: 0.9540929

00:40:44.295 --> 00:40:45.975 us, I think, that FLOT  
NOTE Confidence: 0.9540929

00:40:45.975 --> 00:40:46.475 chemotherapy,  
NOTE Confidence: 0.88911104

00:40:47.575 --> 00:40:48.075 is,  
NOTE Confidence: 0.951824

00:40:48.455 --> 00:40:50.935 really the appropriate regimen for,  
NOTE Confidence: 0.99916965

00:40:51.255 --> 00:40:52.395 esophageal adenocarcinomas  
NOTE Confidence: 0.8362315

00:40:53.335 --> 00:40:55.250 and, probably more effective in  
NOTE Confidence: 0.8362315

00:40:55.250 --> 00:40:55.750 carboxyl.  
NOTE Confidence: 0.93477803

00:40:57.250 --> 00:40:58.770 The question though is is

NOTE Confidence: 0.93477803

00:40:58.770 --> 00:41:00.150 really this idea

NOTE Confidence: 0.94548684

00:41:00.450 --> 00:41:02.390 of with more effective chemotherapy,

NOTE Confidence: 0.9141725

00:41:03.489 --> 00:41:04.469 you know, can,

NOTE Confidence: 0.9984503

00:41:05.410 --> 00:41:05.910 radiation

NOTE Confidence: 0.9993931

00:41:06.290 --> 00:41:07.270 still add

NOTE Confidence: 0.93956137

00:41:08.855 --> 00:41:10.214 to to to the benefit

NOTE Confidence: 0.93956137

00:41:10.214 --> 00:41:12.555 of neoadjuvant therapy before surgery

NOTE Confidence: 0.8386874

00:41:13.734 --> 00:41:15.755 when you're using FLOT chemotherapy

NOTE Confidence: 0.8386874

00:41:15.895 --> 00:41:16.875 instead of carboxyl

NOTE Confidence: 0.653569

00:41:17.575 --> 00:41:18.075 chemotherapy?

NOTE Confidence: 0.94067365

00:41:19.255 --> 00:41:20.935 And, this is a little

NOTE Confidence: 0.94067365

00:41:20.935 --> 00:41:22.055 bit of an older trial,

NOTE Confidence: 0.94067365

00:41:22.055 --> 00:41:22.555 but

NOTE Confidence: 0.95892406

00:41:23.550 --> 00:41:25.330 I like this trial because

NOTE Confidence: 0.95892406

00:41:25.390 --> 00:41:26.930 this trial kinda compared

NOTE Confidence: 0.928161

00:41:27.469 --> 00:41:28.370 in a,  
NOTE Confidence: 0.8803042

00:41:28.989 --> 00:41:30.050 roundabout way,  
NOTE Confidence: 0.9896265

00:41:31.070 --> 00:41:31.390 chemo  
NOTE Confidence: 0.8389592

00:41:31.870 --> 00:41:32.930 FOLFOX chemotherapy  
NOTE Confidence: 0.7327613

00:41:33.469 --> 00:41:34.210 to carboxyl,  
NOTE Confidence: 0.9522022

00:41:34.989 --> 00:41:37.330 both with, radiation treatment.  
NOTE Confidence: 0.9711281

00:41:37.835 --> 00:41:39.934 And this is a, adaptive  
NOTE Confidence: 0.9361513

00:41:40.234 --> 00:41:42.494 trial. So patients were randomized  
NOTE Confidence: 0.9361513

00:41:42.714 --> 00:41:44.974 to either FOLFOX or cobrataxol.  
NOTE Confidence: 0.990111

00:41:45.594 --> 00:41:46.815 And then if they responded  
NOTE Confidence: 0.990111

00:41:46.875 --> 00:41:47.994 to one or the other  
NOTE Confidence: 0.990111

00:41:47.994 --> 00:41:48.494 chemotherapy,  
NOTE Confidence: 0.99396664

00:41:49.674 --> 00:41:51.434 they then continued on that  
NOTE Confidence: 0.99396664

00:41:51.434 --> 00:41:51.934 chemotherapy  
NOTE Confidence: 0.805387

00:41:52.795 --> 00:41:53.219 with,  
NOTE Confidence: 0.99530375

00:41:53.700 --> 00:41:55.780 radiation. If they were resistant

NOTE Confidence: 0.99530375

00:41:55.780 --> 00:41:57.380 to that chemotherapy, they actually

NOTE Confidence: 0.99530375

00:41:57.380 --> 00:41:58.840 switched over to the other

NOTE Confidence: 0.99530375

00:41:58.980 --> 00:42:00.739 type of chemotherapy together with

NOTE Confidence: 0.99530375

00:42:00.739 --> 00:42:01.239 radiation.

NOTE Confidence: 0.923828

00:42:01.940 --> 00:42:03.540 And, the five year old

NOTE Confidence: 0.923828

00:42:03.540 --> 00:42:05.460 overall survival here was about

NOTE Confidence: 0.923828

00:42:05.460 --> 00:42:06.739 fifty three percent. This is

NOTE Confidence: 0.923828

00:42:06.739 --> 00:42:08.359 a phase two trial randomized

NOTE Confidence: 0.923828

00:42:08.420 --> 00:42:09.825 trial, so a smaller trial

NOTE Confidence: 0.923828

00:42:09.825 --> 00:42:11.585 than than, or phase three

NOTE Confidence: 0.923828

00:42:11.585 --> 00:42:12.645 trial. But still,

NOTE Confidence: 0.9190451

00:42:13.105 --> 00:42:14.625 five year overall survival of

NOTE Confidence: 0.9190451

00:42:14.625 --> 00:42:16.225 fifty three page percent, which

NOTE Confidence: 0.9190451

00:42:16.225 --> 00:42:17.744 is about similar to the

NOTE Confidence: 0.9190451

00:42:17.744 --> 00:42:19.344 winning arm of isopec. And

NOTE Confidence: 0.9190451

00:42:19.344 --> 00:42:21.605 then also the PCR rates  
NOTE Confidence: 0.9591317

00:42:22.059 --> 00:42:24.079 for the, folks who responded  
NOTE Confidence: 0.9591317

00:42:24.140 --> 00:42:25.520 to FOLFOX chemotherapy  
NOTE Confidence: 0.89428324

00:42:25.980 --> 00:42:28.000 was, significantly higher,  
NOTE Confidence: 0.9991979

00:42:28.779 --> 00:42:30.160 at twenty six percent.  
NOTE Confidence: 0.9897013

00:42:30.859 --> 00:42:32.239 So, you know,  
NOTE Confidence: 0.94706815

00:42:32.700 --> 00:42:34.344 I I think that, again,  
NOTE Confidence: 0.94706815

00:42:34.344 --> 00:42:35.625 this is kind of comparing  
NOTE Confidence: 0.94706815

00:42:35.625 --> 00:42:36.905 two trials, which you're not  
NOTE Confidence: 0.94706815

00:42:36.905 --> 00:42:38.585 really supposed to do. But,  
NOTE Confidence: 0.94706815

00:42:38.825 --> 00:42:39.864 you know, it kinda gives  
NOTE Confidence: 0.94706815

00:42:39.864 --> 00:42:41.225 you a a suggestion that  
NOTE Confidence: 0.94706815

00:42:41.225 --> 00:42:41.725 maybe  
NOTE Confidence: 0.9001851

00:42:42.185 --> 00:42:44.025 FOLFOX based or five f  
NOTE Confidence: 0.9001851

00:42:44.025 --> 00:42:45.945 u based, excuse me, multi  
NOTE Confidence: 0.9001851

00:42:45.945 --> 00:42:46.844 agent chemotherapy

NOTE Confidence: 0.87881356  
00:42:49.250 --> 00:42:50.290 is the way to go  
NOTE Confidence: 0.87881356  
00:42:50.290 --> 00:42:51.670 with a favorable  
NOTE Confidence: 0.9991643  
00:42:51.969 --> 00:42:53.430 five year overall survival  
NOTE Confidence: 0.84817034  
00:42:54.130 --> 00:42:55.809 and, that the path CR  
NOTE Confidence: 0.84817034  
00:42:55.809 --> 00:42:56.290 rate,  
NOTE Confidence: 0.8298259  
00:42:56.609 --> 00:42:57.349 may be  
NOTE Confidence: 0.9998503  
00:42:57.650 --> 00:42:58.150 improved  
NOTE Confidence: 0.88608426  
00:42:58.609 --> 00:43:00.210 still even in the setting  
NOTE Confidence: 0.88608426  
00:43:00.210 --> 00:43:02.050 of five of even five  
NOTE Confidence: 0.88608426  
00:43:02.050 --> 00:43:03.190 of few based chemotherapy,  
NOTE Confidence: 0.9381008  
00:43:03.890 --> 00:43:05.315 you know, with with a  
NOTE Confidence: 0.9381008  
00:43:05.315 --> 00:43:07.234 more favorable path CR rate  
NOTE Confidence: 0.9381008  
00:43:07.234 --> 00:43:08.694 with the addition of radiation.  
NOTE Confidence: 0.9449672  
00:43:09.795 --> 00:43:11.174 And where this is important  
NOTE Confidence: 0.9449672  
00:43:11.234 --> 00:43:13.094 is is really this idea  
NOTE Confidence: 0.9449672

00:43:13.315 --> 00:43:13.714 that,  
NOTE Confidence: 0.9506056

00:43:14.835 --> 00:43:17.075 doctor Boffa just really, went  
NOTE Confidence: 0.9506056

00:43:17.075 --> 00:43:18.114 through in a lot of  
NOTE Confidence: 0.9506056

00:43:18.114 --> 00:43:19.234 detail, which is that there's  
NOTE Confidence: 0.9506056

00:43:19.234 --> 00:43:20.780 this kind of attractive  
NOTE Confidence: 0.8911786

00:43:22.840 --> 00:43:24.360 concept of saying, okay. For  
NOTE Confidence: 0.8911786

00:43:24.360 --> 00:43:26.040 folks who have a complete  
NOTE Confidence: 0.8911786

00:43:26.040 --> 00:43:27.480 pathologic risk or a complete  
NOTE Confidence: 0.8911786

00:43:27.480 --> 00:43:29.020 clinical response to chemoradiation,  
NOTE Confidence: 0.9958804

00:43:29.719 --> 00:43:30.940 can we avoid surgery?  
NOTE Confidence: 0.9499997

00:43:31.560 --> 00:43:33.320 And, so the SANSO trial  
NOTE Confidence: 0.9499997

00:43:33.320 --> 00:43:34.575 is one example of that  
NOTE Confidence: 0.9499997

00:43:34.655 --> 00:43:36.275 trial. There's others.  
NOTE Confidence: 0.8661986

00:43:36.974 --> 00:43:37.454 And,  
NOTE Confidence: 0.99396837

00:43:37.775 --> 00:43:40.015 interestingly enough, you know, they  
NOTE Confidence: 0.99396837

00:43:40.015 --> 00:43:41.135 did look at the global

NOTE Confidence: 0.99396837  
00:43:41.135 --> 00:43:42.114 quality of life,  
NOTE Confidence: 0.99792457  
00:43:42.575 --> 00:43:43.954 in the Sano trial,  
NOTE Confidence: 0.9342499  
00:43:44.494 --> 00:43:45.855 which did improve in the  
NOTE Confidence: 0.9342499  
00:43:45.855 --> 00:43:47.535 short term, but, seemed to  
NOTE Confidence: 0.9342499  
00:43:47.535 --> 00:43:48.239 level out  
NOTE Confidence: 0.9368196  
00:43:48.800 --> 00:43:49.920 in the long term. And  
NOTE Confidence: 0.9368196  
00:43:49.920 --> 00:43:50.719 so that was kind of  
NOTE Confidence: 0.9368196  
00:43:50.719 --> 00:43:52.260 an interesting finding where,  
NOTE Confidence: 0.9724949  
00:43:52.719 --> 00:43:54.239 despite patients really,  
NOTE Confidence: 0.81598324  
00:43:54.640 --> 00:43:55.140 probably,  
NOTE Confidence: 0.99848974  
00:43:55.600 --> 00:43:56.100 preferring  
NOTE Confidence: 0.79077375  
00:43:56.880 --> 00:43:57.540 to avoid  
NOTE Confidence: 0.72875416  
00:43:57.840 --> 00:43:58.340 surgery  
NOTE Confidence: 0.9593627  
00:43:58.960 --> 00:44:00.400 that, their quality of life  
NOTE Confidence: 0.9593627  
00:44:00.400 --> 00:44:02.160 may actually improve given enough  
NOTE Confidence: 0.9593627

00:44:02.160 --> 00:44:03.219 time after surgery.  
NOTE Confidence: 0.9968358

00:44:03.655 --> 00:44:05.175 And, you know, speaking of  
NOTE Confidence: 0.9968358

00:44:05.175 --> 00:44:06.075 quality of life,  
NOTE Confidence: 0.91181624

00:44:06.535 --> 00:44:07.815 this has been looked at  
NOTE Confidence: 0.91181624

00:44:07.815 --> 00:44:09.195 out of from the Netherlands.  
NOTE Confidence: 0.91181624

00:44:09.255 --> 00:44:09.755 And,  
NOTE Confidence: 0.99128366

00:44:10.055 --> 00:44:10.855 you know, I think the  
NOTE Confidence: 0.99128366

00:44:10.855 --> 00:44:12.635 idea here is that with  
NOTE Confidence: 0.99128366

00:44:12.855 --> 00:44:13.355 chemoradiation  
NOTE Confidence: 0.97385454

00:44:16.250 --> 00:44:17.530 across the board, maybe about  
NOTE Confidence: 0.97385454

00:44:17.530 --> 00:44:19.469 twenty to thirty percent pathologic  
NOTE Confidence: 0.97385454

00:44:19.530 --> 00:44:21.450 complete response rates across most  
NOTE Confidence: 0.97385454

00:44:21.450 --> 00:44:21.950 studies.  
NOTE Confidence: 0.9802397

00:44:22.650 --> 00:44:23.150 That  
NOTE Confidence: 0.62139475

00:44:23.930 --> 00:44:24.089 the  
NOTE Confidence: 0.9680446

00:44:24.730 --> 00:44:26.089 again, the holy grail is

NOTE Confidence: 0.9680446

00:44:26.089 --> 00:44:27.210 really to try to figure

NOTE Confidence: 0.9680446

00:44:27.210 --> 00:44:29.049 out, is there any way

NOTE Confidence: 0.9680446

00:44:29.049 --> 00:44:30.989 that we can, really accurately

NOTE Confidence: 0.9680446

00:44:31.130 --> 00:44:33.535 assess pathologic complete response rates?

NOTE Confidence: 0.98131603

00:44:33.914 --> 00:44:34.795 Is there any way that

NOTE Confidence: 0.98131603

00:44:34.795 --> 00:44:35.454 we can,

NOTE Confidence: 0.9859411

00:44:35.994 --> 00:44:37.755 increase the the number of

NOTE Confidence: 0.9859411

00:44:37.755 --> 00:44:39.454 patients that achieve this pathologic

NOTE Confidence: 0.9859411

00:44:39.674 --> 00:44:41.214 complete response rate? But,

NOTE Confidence: 0.9994976

00:44:41.515 --> 00:44:43.454 this is a nice demonstration

NOTE Confidence: 0.96696454

00:44:43.914 --> 00:44:46.015 that patients prefer organ preservation.

NOTE Confidence: 0.9518907

00:44:47.130 --> 00:44:48.170 You know? And, actually, they

NOTE Confidence: 0.9518907

00:44:48.170 --> 00:44:49.930 considered organ preservation as the

NOTE Confidence: 0.9518907

00:44:49.930 --> 00:44:52.010 second most important factor after

NOTE Confidence: 0.9518907

00:44:52.010 --> 00:44:53.069 overall survival

NOTE Confidence: 0.94783676

00:44:53.529 --> 00:44:55.289 and, even would accept a  
NOTE Confidence: 0.94783676

00:44:55.289 --> 00:44:56.829 a trade off in survival  
NOTE Confidence: 0.94783676

00:44:56.969 --> 00:44:59.049 for significant probability of organ  
NOTE Confidence: 0.94783676

00:44:59.049 --> 00:45:01.085 preservation. And so, again, this  
NOTE Confidence: 0.94783676

00:45:01.085 --> 00:45:02.605 is something where there's a  
NOTE Confidence: 0.94783676

00:45:02.605 --> 00:45:03.904 real need here  
NOTE Confidence: 0.9997561

00:45:04.605 --> 00:45:05.265 to improve  
NOTE Confidence: 0.90912575

00:45:05.565 --> 00:45:06.944 our results with chemoradiation,  
NOTE Confidence: 0.9720071

00:45:08.045 --> 00:45:09.085 and and try to make  
NOTE Confidence: 0.9720071

00:45:09.085 --> 00:45:11.265 this a more realistic feasible  
NOTE Confidence: 0.9996958

00:45:11.724 --> 00:45:12.864 option for patients.  
NOTE Confidence: 0.81606925

00:45:13.964 --> 00:45:14.464 So,  
NOTE Confidence: 0.9953497

00:45:15.164 --> 00:45:15.984 in summary,  
NOTE Confidence: 0.9397381

00:45:16.340 --> 00:45:18.020 just the Yale approach to  
NOTE Confidence: 0.9397381

00:45:18.020 --> 00:45:18.520 chemoradiation,  
NOTE Confidence: 0.87805617

00:45:19.140 --> 00:45:20.260 you know, based on off

NOTE Confidence: 0.87805617

00:45:20.260 --> 00:45:21.160 the CROS trial,

NOTE Confidence: 0.97957426

00:45:22.260 --> 00:45:24.180 the squamous cell cancers really

NOTE Confidence: 0.97957426

00:45:24.180 --> 00:45:26.100 had the, the best outcomes

NOTE Confidence: 0.97957426

00:45:26.100 --> 00:45:27.000 there of any

NOTE Confidence: 0.7793524

00:45:27.620 --> 00:45:28.120 preoperative,

NOTE Confidence: 0.9366701

00:45:28.980 --> 00:45:30.920 trial for squamous cells. So,

NOTE Confidence: 0.8917355

00:45:31.585 --> 00:45:33.585 squamous cell cancers, we're following

NOTE Confidence: 0.8917355

00:45:33.585 --> 00:45:34.705 at this point the cross

NOTE Confidence: 0.8917355

00:45:34.705 --> 00:45:35.205 regimen.

NOTE Confidence: 0.9959903

00:45:35.825 --> 00:45:36.725 For adenocarcinomas,

NOTE Confidence: 0.9851182

00:45:37.905 --> 00:45:39.364 it's clear that FLOT chemotherapy

NOTE Confidence: 0.92035335

00:45:39.825 --> 00:45:41.505 is is probably the best

NOTE Confidence: 0.92035335

00:45:41.505 --> 00:45:42.005 chemotherapy

NOTE Confidence: 0.7949929

00:45:42.864 --> 00:45:43.364 regimen.

NOTE Confidence: 0.98588216

00:45:43.710 --> 00:45:45.230 And, we may actually add

NOTE Confidence: 0.98588216

00:45:45.230 --> 00:45:45.890 in radiation,  
NOTE Confidence: 0.9850485

00:45:46.670 --> 00:45:47.950 on top of that depending  
NOTE Confidence: 0.9850485

00:45:47.950 --> 00:45:48.450 on,  
NOTE Confidence: 0.9096054

00:45:49.469 --> 00:45:51.250 on on certain risk factors.  
NOTE Confidence: 0.9887194

00:45:51.790 --> 00:45:53.790 So patients who are at  
NOTE Confidence: 0.9887194

00:45:53.790 --> 00:45:54.910 high risk who are high  
NOTE Confidence: 0.9887194

00:45:54.910 --> 00:45:56.915 risk surgical candidates, who are,  
NOTE Confidence: 0.9887194

00:45:57.155 --> 00:45:58.755 maybe unlikely to ever get  
NOTE Confidence: 0.9887194

00:45:58.755 --> 00:46:00.375 to surgery because of comorbidities  
NOTE Confidence: 0.9502031

00:46:01.155 --> 00:46:03.415 or, or or age or,  
NOTE Confidence: 0.9401237

00:46:04.435 --> 00:46:06.135 high risk of metastatic disease.  
NOTE Confidence: 0.9754576

00:46:06.594 --> 00:46:07.555 You know, these are probably  
NOTE Confidence: 0.9754576

00:46:07.555 --> 00:46:08.614 patients that,  
NOTE Confidence: 0.96699786

00:46:09.315 --> 00:46:11.094 may be better served with  
NOTE Confidence: 0.96699786

00:46:11.100 --> 00:46:11.600 chemoradiation,  
NOTE Confidence: 0.98268384

00:46:13.020 --> 00:46:14.540 bulky cancers where there may

NOTE Confidence: 0.98268384  
00:46:14.540 --> 00:46:15.660 be a risk of positive  
NOTE Confidence: 0.98268384  
00:46:15.660 --> 00:46:16.880 margins with surgery,  
NOTE Confidence: 0.9887628  
00:46:17.180 --> 00:46:18.400 and extensive lymphadenopathy  
NOTE Confidence: 0.99238116  
00:46:18.700 --> 00:46:19.980 where radiation may help to  
NOTE Confidence: 0.99238116  
00:46:19.980 --> 00:46:20.780 cover the,  
NOTE Confidence: 0.99918246  
00:46:21.180 --> 00:46:22.080 nodal basins.  
NOTE Confidence: 0.9898069  
00:46:23.915 --> 00:46:25.435 And then as a as  
NOTE Confidence: 0.9898069  
00:46:25.435 --> 00:46:26.494 a as a final  
NOTE Confidence: 0.9706682  
00:46:27.114 --> 00:46:27.855 two minute,  
NOTE Confidence: 0.86490154  
00:46:28.474 --> 00:46:29.695 one minute, two minute,  
NOTE Confidence: 0.82174426  
00:46:33.114 --> 00:46:33.994 notes that,  
NOTE Confidence: 0.96234876  
00:46:34.635 --> 00:46:36.075 you know, at Yale, we  
NOTE Confidence: 0.96234876  
00:46:36.075 --> 00:46:37.135 do have some,  
NOTE Confidence: 0.9950271  
00:46:37.835 --> 00:46:39.420 newer things coming down the  
NOTE Confidence: 0.9950271  
00:46:39.420 --> 00:46:41.200 line for esophageal cancer.  
NOTE Confidence: 0.97730553

00:46:42.219 --> 00:46:42.700 And,  
NOTE Confidence: 0.88187665

00:46:43.020 --> 00:46:44.160 one approach which,  
NOTE Confidence: 0.9975353

00:46:44.619 --> 00:46:45.520 again, is  
NOTE Confidence: 0.976645

00:46:45.980 --> 00:46:47.420 getting more traction is this  
NOTE Confidence: 0.976645

00:46:47.420 --> 00:46:48.400 idea of treating,  
NOTE Confidence: 0.99880594

00:46:49.260 --> 00:46:50.960 limited metastatic disease  
NOTE Confidence: 0.9995471

00:46:51.339 --> 00:46:52.239 with curative  
NOTE Confidence: 0.88875633

00:46:52.540 --> 00:46:53.599 intent. And,  
NOTE Confidence: 0.9995634

00:46:54.085 --> 00:46:54.585 this  
NOTE Confidence: 0.8493693

00:46:54.885 --> 00:46:55.925 is this is,  
NOTE Confidence: 0.9381765

00:46:56.645 --> 00:46:58.245 the SABRE COMET trial, which  
NOTE Confidence: 0.9381765

00:46:58.245 --> 00:46:59.225 looked at metastatic  
NOTE Confidence: 0.8916459

00:46:59.844 --> 00:47:00.745 cancer patients,  
NOTE Confidence: 0.9778697

00:47:01.205 --> 00:47:02.645 a small trial, one to  
NOTE Confidence: 0.9778697

00:47:02.645 --> 00:47:04.025 five metastatic lesions,  
NOTE Confidence: 0.85576504

00:47:04.805 --> 00:47:06.505 with standard of care,

NOTE Confidence: 0.9925134  
00:47:07.205 --> 00:47:07.705 palliation  
NOTE Confidence: 0.9889931  
00:47:08.245 --> 00:47:08.745 versus  
NOTE Confidence: 0.95234907  
00:47:09.730 --> 00:47:11.110 standard of care with,  
NOTE Confidence: 0.9986895  
00:47:11.890 --> 00:47:12.390 SBRT  
NOTE Confidence: 0.94764006  
00:47:12.690 --> 00:47:14.230 showing a survival benefit,  
NOTE Confidence: 0.9418633  
00:47:15.010 --> 00:47:16.370 with the addition of local  
NOTE Confidence: 0.9418633  
00:47:16.370 --> 00:47:18.610 therapy with high dose ablative  
NOTE Confidence: 0.9418633  
00:47:18.610 --> 00:47:19.110 radiation.  
NOTE Confidence: 0.72842324  
00:47:20.130 --> 00:47:20.630 And,  
NOTE Confidence: 0.9626008  
00:47:21.825 --> 00:47:23.285 a series from MD Anderson  
NOTE Confidence: 0.9626008  
00:47:23.505 --> 00:47:24.325 for esophageal  
NOTE Confidence: 0.94660807  
00:47:24.625 --> 00:47:26.224 gastric cancers looking at a  
NOTE Confidence: 0.94660807  
00:47:26.224 --> 00:47:27.125 similar concept,  
NOTE Confidence: 0.9390966  
00:47:27.744 --> 00:47:29.585 patients getting systemic therapy with  
NOTE Confidence: 0.9390966  
00:47:29.585 --> 00:47:30.645 an excellent response,  
NOTE Confidence: 0.9372527

00:47:31.025 --> 00:47:32.864 and then consolidation surgery or  
NOTE Confidence: 0.9372527

00:47:32.864 --> 00:47:35.049 radiation. And, you know, kind  
NOTE Confidence: 0.9372527

00:47:35.049 --> 00:47:35.630 of intriguingly,  
NOTE Confidence: 0.97067064

00:47:36.489 --> 00:47:37.790 even up to,  
NOTE Confidence: 0.9791163

00:47:38.329 --> 00:47:39.069 ten years,  
NOTE Confidence: 0.9672538

00:47:39.530 --> 00:47:41.130 about a twenty percent survival  
NOTE Confidence: 0.9672538

00:47:41.130 --> 00:47:42.430 in this highly selected  
NOTE Confidence: 0.98868394

00:47:42.730 --> 00:47:43.549 single institution  
NOTE Confidence: 0.95250726

00:47:44.010 --> 00:47:45.150 retrospective study.  
NOTE Confidence: 0.9644006

00:47:45.690 --> 00:47:47.705 But, certainly suggested that maybe  
NOTE Confidence: 0.9644006

00:47:47.705 --> 00:47:48.985 in some patients, there can  
NOTE Confidence: 0.9644006

00:47:48.985 --> 00:47:50.285 be long term survival  
NOTE Confidence: 0.855969

00:47:50.745 --> 00:47:51.965 with, consolidative,  
NOTE Confidence: 0.99963933

00:47:52.665 --> 00:47:53.165 radiation.  
NOTE Confidence: 0.98396295

00:47:53.945 --> 00:47:55.625 And so at Yale, we  
NOTE Confidence: 0.98396295

00:47:55.625 --> 00:47:56.765 have this trial,

NOTE Confidence: 0.87950796  
00:47:57.145 --> 00:47:57.545 through,  
NOTE Confidence: 0.99679554  
00:47:58.025 --> 00:47:59.405 open at this point,  
NOTE Confidence: 0.9531354  
00:48:00.105 --> 00:48:01.225 which is open through the  
NOTE Confidence: 0.9531354  
00:48:01.225 --> 00:48:03.200 ECOG group, looking at this  
NOTE Confidence: 0.9531354  
00:48:03.200 --> 00:48:05.359 concept of consolidative radiation in  
NOTE Confidence: 0.9531354  
00:48:05.359 --> 00:48:06.579 patients with oligometastatic  
NOTE Confidence: 0.9596157  
00:48:07.039 --> 00:48:09.039 HER2 negative esophageal or gastric  
NOTE Confidence: 0.9596157  
00:48:09.039 --> 00:48:09.539 cancer,  
NOTE Confidence: 0.99782974  
00:48:10.239 --> 00:48:11.839 patients with less than five  
NOTE Confidence: 0.99782974  
00:48:11.839 --> 00:48:12.980 metastatic lesions,  
NOTE Confidence: 0.97337437  
00:48:13.680 --> 00:48:15.219 and at least stable disease  
NOTE Confidence: 0.97337437  
00:48:15.440 --> 00:48:17.295 with first line systemic therapy  
NOTE Confidence: 0.97337437  
00:48:17.295 --> 00:48:18.355 and then continuing  
NOTE Confidence: 0.84900224  
00:48:18.655 --> 00:48:19.475 on to,  
NOTE Confidence: 0.9968764  
00:48:20.494 --> 00:48:21.775 radiation treatment to all of  
NOTE Confidence: 0.9968764

00:48:21.775 --> 00:48:23.075 the metastatic sites.  
NOTE Confidence: 0.99302024

00:48:23.535 --> 00:48:23.935 And,  
NOTE Confidence: 0.9633246

00:48:24.734 --> 00:48:25.855 you know, we're this is,  
NOTE Confidence: 0.9633246

00:48:26.015 --> 00:48:26.755 this is  
NOTE Confidence: 0.92221904

00:48:27.775 --> 00:48:29.855 an international trial and open  
NOTE Confidence: 0.92221904

00:48:29.855 --> 00:48:30.994 now for enrollment.  
NOTE Confidence: 0.9930917

00:48:31.710 --> 00:48:33.550 And then, finally, just because,  
NOTE Confidence: 0.9930917

00:48:33.869 --> 00:48:34.770 you can't have  
NOTE Confidence: 0.91244775

00:48:35.310 --> 00:48:37.230 radiation a radiation talk without  
NOTE Confidence: 0.91244775

00:48:37.230 --> 00:48:38.850 some something with new technology,  
NOTE Confidence: 0.9272599

00:48:40.270 --> 00:48:41.170 just a  
NOTE Confidence: 0.79571176

00:48:41.790 --> 00:48:42.530 note that  
NOTE Confidence: 0.97292423

00:48:43.835 --> 00:48:45.674 that Yale is is going  
NOTE Confidence: 0.97292423

00:48:45.674 --> 00:48:47.515 to be opening Connecticut's first  
NOTE Confidence: 0.97292423

00:48:47.515 --> 00:48:48.575 proton center,  
NOTE Confidence: 0.960035

00:48:48.875 --> 00:48:49.994 and this should be opening

NOTE Confidence: 0.960035  
00:48:49.994 --> 00:48:51.434 up toward the end of,  
NOTE Confidence: 0.960035  
00:48:51.755 --> 00:48:52.575 next year,  
NOTE Confidence: 0.98526716  
00:48:53.594 --> 00:48:55.055 in Wallingford, Connecticut.  
NOTE Confidence: 0.94157076  
00:48:55.835 --> 00:48:58.094 And, protons are really attractive,  
NOTE Confidence: 0.99609137  
00:48:59.040 --> 00:48:59.540 and,  
NOTE Confidence: 0.9851756  
00:49:00.080 --> 00:49:02.020 you know, cutting edge radiation  
NOTE Confidence: 0.9761925  
00:49:02.320 --> 00:49:02.820 technology.  
NOTE Confidence: 0.95481396  
00:49:04.000 --> 00:49:05.700 And the advantage of protons  
NOTE Confidence: 0.95481396  
00:49:05.840 --> 00:49:07.840 is that, where X rays  
NOTE Confidence: 0.95481396  
00:49:07.840 --> 00:49:09.040 go through your body and  
NOTE Confidence: 0.95481396  
00:49:09.040 --> 00:49:10.575 no matter how carefully we  
NOTE Confidence: 0.96230197  
00:49:11.295 --> 00:49:11.795 aim,  
NOTE Confidence: 0.99298996  
00:49:12.335 --> 00:49:14.114 x rays at the esophagus,  
NOTE Confidence: 0.99298996  
00:49:14.175 --> 00:49:15.614 there's always this low dose  
NOTE Confidence: 0.99298996  
00:49:15.614 --> 00:49:17.295 spread of radiation to the  
NOTE Confidence: 0.99298996

00:49:17.295 --> 00:49:18.355 lungs and heart,  
NOTE Confidence: 0.9691226

00:49:18.974 --> 00:49:19.795 that protons,  
NOTE Confidence: 0.9941583

00:49:20.415 --> 00:49:21.454 stop. And so,  
NOTE Confidence: 0.9808959

00:49:21.855 --> 00:49:23.214 you can see in this  
NOTE Confidence: 0.9808959

00:49:23.214 --> 00:49:24.655 example of a proton plan  
NOTE Confidence: 0.9808959

00:49:24.655 --> 00:49:25.990 delivering dose to the rate  
NOTE Confidence: 0.9808959

00:49:26.070 --> 00:49:27.750 to the to the primary  
NOTE Confidence: 0.9808959

00:49:27.750 --> 00:49:28.250 tumor,  
NOTE Confidence: 0.9509959

00:49:28.630 --> 00:49:29.830 but really sparing a lot  
NOTE Confidence: 0.9509959

00:49:29.830 --> 00:49:31.430 more lung from this low  
NOTE Confidence: 0.9509959

00:49:31.430 --> 00:49:33.190 dose and very importantly, sparing  
NOTE Confidence: 0.9509959

00:49:33.190 --> 00:49:34.310 a lot more hearts. And  
NOTE Confidence: 0.9509959

00:49:34.310 --> 00:49:35.290 we know that,  
NOTE Confidence: 0.8658671

00:49:35.989 --> 00:49:37.610 survival is actually improved,  
NOTE Confidence: 0.9412799

00:49:38.230 --> 00:49:39.830 the the less heart dose  
NOTE Confidence: 0.9412799

00:49:39.830 --> 00:49:42.094 we we, we deliver. And,

NOTE Confidence: 0.9938836

00:49:42.575 --> 00:49:43.614 that that's a that's a

NOTE Confidence: 0.9938836

00:49:43.614 --> 00:49:45.714 big risk with esophageal cancer.

NOTE Confidence: 0.9075751

00:49:46.414 --> 00:49:46.914 So,

NOTE Confidence: 0.95534045

00:49:48.414 --> 00:49:50.094 this is, something we're looking

NOTE Confidence: 0.95534045

00:49:50.094 --> 00:49:51.694 forward to and and, again,

NOTE Confidence: 0.95534045

00:49:51.694 --> 00:49:53.075 will be a big benefit,

NOTE Confidence: 0.9995609

00:49:53.535 --> 00:49:54.655 you know, for our patients

NOTE Confidence: 0.9995609

00:49:54.655 --> 00:49:55.635 here in Connecticut.

NOTE Confidence: 0.991416

00:49:56.289 --> 00:49:58.069 So, thank you. I apologize

NOTE Confidence: 0.991416

00:49:58.130 --> 00:49:58.950 for going

NOTE Confidence: 0.92443836

00:49:59.250 --> 00:50:00.230 over, and,

NOTE Confidence: 0.99913955

00:50:00.849 --> 00:50:01.349 I'll

NOTE Confidence: 0.88176525

00:50:01.650 --> 00:50:02.950 turn it back to,

NOTE Confidence: 0.9891441

00:50:03.969 --> 00:50:04.869 doctor Sundar.

NOTE Confidence: 0.9573423

00:50:06.930 --> 00:50:08.609 Thanks. Thanks, Kevin. That was

NOTE Confidence: 0.9573423

00:50:08.609 --> 00:50:09.890 really fantastic, and,  
NOTE Confidence: 0.98529834

00:50:10.625 --> 00:50:11.744 looking forward to having a  
NOTE Confidence: 0.98529834

00:50:11.744 --> 00:50:12.244 multidisciplinary,  
NOTE Confidence: 0.9932763

00:50:13.184 --> 00:50:14.385 discussion on some of the  
NOTE Confidence: 0.9932763

00:50:14.385 --> 00:50:14.885 cases,  
NOTE Confidence: 0.99805945

00:50:15.585 --> 00:50:16.325 after this.  
NOTE Confidence: 0.9803079

00:50:16.704 --> 00:50:18.405 I'm gonna give the last,  
NOTE Confidence: 0.83652663

00:50:19.265 --> 00:50:20.325 planned talk.  
NOTE Confidence: 0.82190824

00:50:30.400 --> 00:50:30.880 Right.  
NOTE Confidence: 0.97419715

00:50:31.440 --> 00:50:32.559 And so for the last  
NOTE Confidence: 0.97419715

00:50:32.559 --> 00:50:33.780 part, I'm gonna cover,  
NOTE Confidence: 0.9721829

00:50:34.239 --> 00:50:34.739 updates,  
NOTE Confidence: 0.9903134

00:50:35.040 --> 00:50:36.239 over the last year in  
NOTE Confidence: 0.9903134

00:50:36.239 --> 00:50:37.219 systemic therapies,  
NOTE Confidence: 0.95631534

00:50:38.094 --> 00:50:39.695 mainly covering the three main  
NOTE Confidence: 0.95631534

00:50:39.695 --> 00:50:42.195 components of, HER2 targeted therapies,

NOTE Confidence: 0.90724325

00:50:42.975 --> 00:50:44.495 as Doctor. Gibson talked about,

NOTE Confidence: 0.90724325

00:50:44.495 --> 00:50:46.335 GLAADIN eighteen point two, as

NOTE Confidence: 0.90724325

00:50:46.335 --> 00:50:48.335 well as, some immunotherapy updates

NOTE Confidence: 0.90724325

00:50:48.335 --> 00:50:48.995 as well.

NOTE Confidence: 0.98564124

00:50:50.880 --> 00:50:51.760 And this has been one

NOTE Confidence: 0.98564124

00:50:51.760 --> 00:50:53.040 of the most exciting aspects

NOTE Confidence: 0.98564124

00:50:53.040 --> 00:50:53.780 of gastroesophageal

NOTE Confidence: 0.96461153

00:50:54.160 --> 00:50:55.680 cancers is that in terms

NOTE Confidence: 0.96461153

00:50:55.680 --> 00:50:57.780 of just putative therapeutic targets,

NOTE Confidence: 0.96461153

00:50:57.920 --> 00:50:59.119 we can see that this

NOTE Confidence: 0.96461153

00:50:59.119 --> 00:51:00.579 entire space has really

NOTE Confidence: 0.95629174

00:51:01.200 --> 00:51:02.480 exploded over the past few

NOTE Confidence: 0.95629174

00:51:02.480 --> 00:51:04.295 years. We have multiple different

NOTE Confidence: 0.95629174

00:51:04.295 --> 00:51:05.494 drugs that are coming into

NOTE Confidence: 0.95629174

00:51:05.494 --> 00:51:06.315 the space. And

NOTE Confidence: 0.98106235

00:51:06.614 --> 00:51:07.114 by,  
NOTE Confidence: 0.99849856

00:51:07.654 --> 00:51:08.154 improving  
NOTE Confidence: 0.96599114

00:51:08.614 --> 00:51:10.055 systemic control as well as  
NOTE Confidence: 0.96599114

00:51:10.055 --> 00:51:11.994 response rates to primary tumors,  
NOTE Confidence: 0.96599114

00:51:12.135 --> 00:51:13.674 the idea is in combination,  
NOTE Confidence: 0.96599114

00:51:13.734 --> 00:51:14.694 as you can see, with  
NOTE Confidence: 0.96599114

00:51:14.694 --> 00:51:16.234 radiation as well as surgery,  
NOTE Confidence: 0.96599114

00:51:16.370 --> 00:51:17.330 the goal is to try  
NOTE Confidence: 0.96599114

00:51:17.330 --> 00:51:18.710 and be able to cure  
NOTE Confidence: 0.96599114

00:51:18.850 --> 00:51:20.210 a lot much larger number  
NOTE Confidence: 0.96599114

00:51:20.210 --> 00:51:21.810 of patients who are suffering  
NOTE Confidence: 0.96599114

00:51:21.810 --> 00:51:22.550 from gastroesophageal  
NOTE Confidence: 0.9992427

00:51:22.930 --> 00:51:24.050 cancer than what we could  
NOTE Confidence: 0.9992427

00:51:24.050 --> 00:51:24.870 in the past.  
NOTE Confidence: 0.97868985

00:51:28.050 --> 00:51:29.330 So in the HER2 space,  
NOTE Confidence: 0.97868985

00:51:29.330 --> 00:51:30.230 we know that,

NOTE Confidence: 0.99926186  
00:51:30.770 --> 00:51:31.830 the data from  
NOTE Confidence: 0.90038526  
00:51:32.424 --> 00:51:34.025 keynote eight eleven, which looked  
NOTE Confidence: 0.90038526  
00:51:34.025 --> 00:51:35.484 at patients with,  
NOTE Confidence: 0.96393615  
00:51:35.944 --> 00:51:37.565 advanced unresectable gastrosophageal  
NOTE Confidence: 0.9775046  
00:51:38.105 --> 00:51:40.285 cancers that were HER2 positive,  
NOTE Confidence: 0.964901  
00:51:41.385 --> 00:51:43.145 newly diagnosed. And upfront, they  
NOTE Confidence: 0.964901  
00:51:43.145 --> 00:51:43.885 were randomized  
NOTE Confidence: 0.9993036  
00:51:44.265 --> 00:51:45.885 to receive either chemotherapy  
NOTE Confidence: 0.92428267  
00:51:46.480 --> 00:51:48.239 in combination of trastuzumab, which  
NOTE Confidence: 0.92428267  
00:51:48.239 --> 00:51:49.620 has been the Toga regimen,  
NOTE Confidence: 0.92428267  
00:51:49.840 --> 00:51:50.880 which we have been giving  
NOTE Confidence: 0.92428267  
00:51:50.880 --> 00:51:52.480 patients for the past ten  
NOTE Confidence: 0.92428267  
00:51:52.480 --> 00:51:53.300 plus years,  
NOTE Confidence: 0.99646544  
00:51:54.160 --> 00:51:55.460 to also then receive  
NOTE Confidence: 0.9927233  
00:51:56.560 --> 00:51:57.060 pembrolizumab.  
NOTE Confidence: 0.9865925

00:51:57.760 --> 00:51:59.120 And this trial had early  
NOTE Confidence: 0.9865925

00:51:59.120 --> 00:52:00.160 results that read out a  
NOTE Confidence: 0.9865925

00:52:00.160 --> 00:52:02.025 couple of years ago. And,  
NOTE Confidence: 0.99744034

00:52:02.965 --> 00:52:04.085 we know that there was  
NOTE Confidence: 0.99744034

00:52:04.085 --> 00:52:06.025 a progression free survival benefit  
NOTE Confidence: 0.99744034

00:52:06.244 --> 00:52:07.705 for the addition of pembrolizumab  
NOTE Confidence: 0.93552923

00:52:08.565 --> 00:52:10.085 to the Toga regimen with  
NOTE Confidence: 0.93552923

00:52:10.085 --> 00:52:11.305 chemotherapy and trastuzumab.  
NOTE Confidence: 0.97189486

00:52:11.765 --> 00:52:12.805 And this has been now  
NOTE Confidence: 0.97189486

00:52:12.805 --> 00:52:14.440 the standard of care for  
NOTE Confidence: 0.97189486

00:52:14.440 --> 00:52:16.280 patients over the past couple  
NOTE Confidence: 0.97189486

00:52:16.280 --> 00:52:17.560 of years, where if you're  
NOTE Confidence: 0.97189486

00:52:17.560 --> 00:52:18.380 HER2 positive,  
NOTE Confidence: 0.9356334

00:52:18.840 --> 00:52:19.980 the addition of pembrolizumab,  
NOTE Confidence: 0.9121219

00:52:20.920 --> 00:52:23.100 has demonstrated survival benefit.  
NOTE Confidence: 0.9892447

00:52:23.400 --> 00:52:25.080 Last year, we actually saw

NOTE Confidence: 0.9892447  
00:52:25.080 --> 00:52:26.219 the overall survival,  
NOTE Confidence: 0.91660345  
00:52:26.680 --> 00:52:28.440 results that was presented by  
NOTE Confidence: 0.91660345  
00:52:28.440 --> 00:52:30.505 Doctor Janjie Guyan and, also  
NOTE Confidence: 0.91660345  
00:52:30.505 --> 00:52:31.545 published in the New England  
NOTE Confidence: 0.91660345  
00:52:31.545 --> 00:52:33.305 Journal of Medicine. And there  
NOTE Confidence: 0.91660345  
00:52:33.305 --> 00:52:34.445 continues to be  
NOTE Confidence: 0.9721156  
00:52:34.825 --> 00:52:36.425 a clear separation of the  
NOTE Confidence: 0.9721156  
00:52:36.425 --> 00:52:38.105 curves and a survival benefit  
NOTE Confidence: 0.9721156  
00:52:38.105 --> 00:52:39.405 for the addition of pembrolizumab.  
NOTE Confidence: 0.94251144  
00:52:41.065 --> 00:52:42.460 This is the long one  
NOTE Confidence: 0.94251144  
00:52:42.460 --> 00:52:44.080 of the longest overall survivals  
NOTE Confidence: 0.94251144  
00:52:44.140 --> 00:52:45.980 we've seen at twenty months  
NOTE Confidence: 0.94251144  
00:52:45.980 --> 00:52:47.600 for patients who received pembrolizumab  
NOTE Confidence: 0.95997924  
00:52:48.140 --> 00:52:49.580 compared to sixteen point eight  
NOTE Confidence: 0.95997924  
00:52:49.580 --> 00:52:50.860 months for those that received  
NOTE Confidence: 0.95997924

00:52:50.860 --> 00:52:51.360 placebo  
NOTE Confidence: 0.8626291

00:52:51.660 --> 00:52:52.860 with a very nice hazard  
NOTE Confidence: 0.8626291

00:52:52.860 --> 00:52:54.560 ratio zero point eight zero.  
NOTE Confidence: 0.92759347

00:52:54.860 --> 00:52:55.260 And,  
NOTE Confidence: 0.9924702

00:52:56.495 --> 00:52:57.614 however, one of the things  
NOTE Confidence: 0.9924702

00:52:57.614 --> 00:52:59.075 to note about this trial  
NOTE Confidence: 0.9924702

00:52:59.295 --> 00:53:00.435 is the fact that,  
NOTE Confidence: 0.99860126

00:53:01.135 --> 00:53:02.435 there was clearly a  
NOTE Confidence: 0.9993474

00:53:02.735 --> 00:53:03.795 lack of benefit  
NOTE Confidence: 0.97346634

00:53:04.175 --> 00:53:05.555 of the addition of pembrolizumab  
NOTE Confidence: 0.97346634

00:53:05.775 --> 00:53:06.975 for those that had a  
NOTE Confidence: 0.97346634

00:53:06.975 --> 00:53:07.875 PD L1,  
NOTE Confidence: 0.97605836

00:53:08.415 --> 00:53:09.775 CPS score of less than  
NOTE Confidence: 0.97605836

00:53:09.775 --> 00:53:11.369 one. And in this group  
NOTE Confidence: 0.97605836

00:53:11.369 --> 00:53:12.430 of patients, actually,  
NOTE Confidence: 0.9715288

00:53:12.730 --> 00:53:14.349 the survival was poorer

NOTE Confidence: 0.9271481

00:53:14.650 --> 00:53:16.089 for the patients that received

NOTE Confidence: 0.9271481

00:53:16.089 --> 00:53:18.329 the pembrolizumab con considered compared

NOTE Confidence: 0.9271481

00:53:18.329 --> 00:53:19.770 to standard of care, and

NOTE Confidence: 0.9271481

00:53:19.770 --> 00:53:20.969 that led the FDA to

NOTE Confidence: 0.9271481

00:53:20.969 --> 00:53:21.950 actually update

NOTE Confidence: 0.9854532

00:53:23.075 --> 00:53:24.275 the indication for the role

NOTE Confidence: 0.9854532

00:53:24.275 --> 00:53:24.855 of pembrolizumab

NOTE Confidence: 0.87365323

00:53:25.315 --> 00:53:27.555 and restricted only to patients

NOTE Confidence: 0.87365323

00:53:27.555 --> 00:53:29.815 that are tumors that had,

NOTE Confidence: 0.9274899

00:53:30.515 --> 00:53:32.114 both a co expression of

NOTE Confidence: 0.9274899

00:53:32.114 --> 00:53:33.974 HER2 as well as PDL1.

NOTE Confidence: 0.9297818

00:53:34.619 --> 00:53:36.140 And so now in terms

NOTE Confidence: 0.9297818

00:53:36.140 --> 00:53:36.960 of the HER2,

NOTE Confidence: 0.988716

00:53:37.500 --> 00:53:38.480 positive gastroesophageal

NOTE Confidence: 0.97619605

00:53:39.019 --> 00:53:39.519 cancers,

NOTE Confidence: 0.6417427

00:53:40.700 --> 00:53:41.359 and gastroesophageal  
NOTE Confidence: 0.9683005

00:53:41.739 --> 00:53:42.239 adenocarcinomas  
NOTE Confidence: 0.9160629

00:53:42.859 --> 00:53:44.880 for frontline treatment, the recommendation  
NOTE Confidence: 0.9160629

00:53:45.099 --> 00:53:46.460 is in combination with the  
NOTE Confidence: 0.9160629

00:53:46.460 --> 00:53:47.680 platinum and fluoropyrimidine  
NOTE Confidence: 0.94371504

00:53:48.460 --> 00:53:49.755 doublet is to look at  
NOTE Confidence: 0.94371504

00:53:49.755 --> 00:53:51.755 the PDL one score. And  
NOTE Confidence: 0.94371504

00:53:51.755 --> 00:53:53.275 the PDL one CPS is  
NOTE Confidence: 0.94371504

00:53:53.275 --> 00:53:54.954 less than one, then the  
NOTE Confidence: 0.94371504

00:53:54.954 --> 00:53:56.155 recommendation is only for the  
NOTE Confidence: 0.94371504

00:53:56.155 --> 00:53:57.135 addition of trastuzumab.  
NOTE Confidence: 0.98226714

00:53:57.755 --> 00:53:58.795 But if the PDL one  
NOTE Confidence: 0.98226714

00:53:58.795 --> 00:54:00.335 CPS is one or greater,  
NOTE Confidence: 0.98226714

00:54:00.474 --> 00:54:01.835 then the recommendation is to  
NOTE Confidence: 0.98226714

00:54:01.835 --> 00:54:02.895 add trastuzumab  
NOTE Confidence: 0.965136

00:54:03.275 --> 00:54:04.555 with a PD one blockade

NOTE Confidence: 0.965136  
00:54:04.555 --> 00:54:05.510 with pembrolizumab,  
NOTE Confidence: 0.9791344  
00:54:05.969 --> 00:54:07.570 and that's kind of what  
NOTE Confidence: 0.9791344  
00:54:07.570 --> 00:54:09.250 we now follow as a  
NOTE Confidence: 0.9791344  
00:54:09.250 --> 00:54:10.690 standard of care for HER2  
NOTE Confidence: 0.9791344  
00:54:10.690 --> 00:54:11.670 positive gastroesophageal  
NOTE Confidence: 0.9969052  
00:54:12.130 --> 00:54:12.630 cancers.  
NOTE Confidence: 0.9682605  
00:54:15.410 --> 00:54:16.850 Switching gears a little bit,  
NOTE Confidence: 0.9682605  
00:54:16.850 --> 00:54:18.310 we know that, trastuzumab  
NOTE Confidence: 0.8999248  
00:54:18.610 --> 00:54:20.705 deruxtecan, which is antibody drug  
NOTE Confidence: 0.8999248  
00:54:20.705 --> 00:54:21.205 conjugate,  
NOTE Confidence: 0.6719125  
00:54:22.225 --> 00:54:23.445 before two HER2,  
NOTE Confidence: 0.99586713  
00:54:23.825 --> 00:54:24.325 demonstrated  
NOTE Confidence: 0.83484435  
00:54:24.945 --> 00:54:26.085 a survival benefit  
NOTE Confidence: 0.9334021  
00:54:26.385 --> 00:54:27.285 compared to,  
NOTE Confidence: 0.9217951  
00:54:27.825 --> 00:54:29.665 physician's choice of chemotherapy in  
NOTE Confidence: 0.9217951

00:54:29.665 --> 00:54:31.105 the Destiny Gastric o one  
NOTE Confidence: 0.9217951

00:54:31.105 --> 00:54:31.605 study.  
NOTE Confidence: 0.9943581

00:54:31.985 --> 00:54:33.265 And this actually led to  
NOTE Confidence: 0.9943581

00:54:33.265 --> 00:54:33.925 the approval  
NOTE Confidence: 0.89251024

00:54:34.329 --> 00:54:35.790 of trastuzumab, deruxtecan  
NOTE Confidence: 0.8112163

00:54:36.170 --> 00:54:36.670 about,  
NOTE Confidence: 0.99858975

00:54:37.609 --> 00:54:38.910 four years ago now  
NOTE Confidence: 0.93608594

00:54:39.250 --> 00:54:39.750 for,  
NOTE Confidence: 0.9945266

00:54:40.650 --> 00:54:42.410 patients that had progressed on  
NOTE Confidence: 0.9945266

00:54:42.410 --> 00:54:44.510 frontline treatment with trastuzumab  
NOTE Confidence: 0.7071789

00:54:45.450 --> 00:54:45.950 and,  
NOTE Confidence: 0.9898162

00:54:46.569 --> 00:54:47.069 then  
NOTE Confidence: 0.94289774

00:54:48.355 --> 00:54:50.215 were treated with trastuzumab deruxtecan,  
NOTE Confidence: 0.94289774

00:54:50.355 --> 00:54:51.555 which is the antibody drug  
NOTE Confidence: 0.94289774

00:54:51.555 --> 00:54:52.055 conjugate.  
NOTE Confidence: 0.9190724

00:54:54.995 --> 00:54:56.595 The the initial data that

NOTE Confidence: 0.9190724

00:54:56.595 --> 00:54:58.595 was presented in, Destiny Gastric

NOTE Confidence: 0.9190724

00:54:58.595 --> 00:55:00.435 o one was purely generated

NOTE Confidence: 0.9190724

00:55:00.435 --> 00:55:02.114 from an Asian study. And

NOTE Confidence: 0.9190724

00:55:02.114 --> 00:55:03.540 this is why we had

NOTE Confidence: 0.9190724

00:55:03.540 --> 00:55:04.900 the SNE gastric o four

NOTE Confidence: 0.9190724

00:55:04.900 --> 00:55:06.980 study that, was a randomized

NOTE Confidence: 0.9190724

00:55:06.980 --> 00:55:08.900 phase three trial, specifically in

NOTE Confidence: 0.9190724

00:55:08.900 --> 00:55:10.840 the second line setting for,

NOTE Confidence: 0.9296732

00:55:11.620 --> 00:55:13.380 patients that have progressed on

NOTE Confidence: 0.9296732

00:55:13.380 --> 00:55:15.000 frontline treatment with trazuzumab

NOTE Confidence: 0.974752

00:55:15.380 --> 00:55:15.880 based,

NOTE Confidence: 0.9953038

00:55:16.260 --> 00:55:16.760 treatments.

NOTE Confidence: 0.9971636

00:55:17.060 --> 00:55:17.560 And

NOTE Confidence: 0.92216015

00:55:17.955 --> 00:55:19.795 importantly in this study, all

NOTE Confidence: 0.92216015

00:55:19.795 --> 00:55:21.175 patients had a rebiopsy

NOTE Confidence: 0.9859956

00:55:21.635 --> 00:55:22.135 of  
NOTE Confidence: 0.958673

00:55:22.435 --> 00:55:24.755 the tumors and confirmed HER2  
NOTE Confidence: 0.958673

00:55:24.755 --> 00:55:26.614 positivity before they were randomized.  
NOTE Confidence: 0.99025834

00:55:26.995 --> 00:55:28.355 And they were randomized to  
NOTE Confidence: 0.99025834

00:55:28.355 --> 00:55:29.495 receive either trastuzumab,  
NOTE Confidence: 0.63302934

00:55:29.795 --> 00:55:30.295 duraxtecan,  
NOTE Confidence: 0.99102247

00:55:30.755 --> 00:55:31.735 or paclitaxel  
NOTE Confidence: 0.8059999

00:55:32.114 --> 00:55:32.935 and ramosirumab.  
NOTE Confidence: 0.8766024

00:55:33.930 --> 00:55:34.430 And,  
NOTE Confidence: 0.9860861

00:55:36.170 --> 00:55:37.369 this actually had a press  
NOTE Confidence: 0.9860861

00:55:37.369 --> 00:55:39.369 release that announced that this  
NOTE Confidence: 0.9860861

00:55:39.369 --> 00:55:41.069 study met its primary endpoint  
NOTE Confidence: 0.9860861

00:55:41.210 --> 00:55:42.910 for overall survival, suggesting  
NOTE Confidence: 0.80450004

00:55:44.170 --> 00:55:45.849 that trastuzumab, durax deacon has  
NOTE Confidence: 0.80450004

00:55:45.849 --> 00:55:46.910 not did  
NOTE Confidence: 0.9590916

00:55:47.755 --> 00:55:49.594 demonstrate an overall survival benefit

NOTE Confidence: 0.9590916  
00:55:49.594 --> 00:55:51.135 over paclitaxel and ramosirumab,  
NOTE Confidence: 0.9397551  
00:55:51.675 --> 00:55:52.715 and this is actually going  
NOTE Confidence: 0.9397551  
00:55:52.715 --> 00:55:53.535 to be presented,  
NOTE Confidence: 0.9885849  
00:55:53.994 --> 00:55:55.355 as an oral abstract at  
NOTE Confidence: 0.9885849  
00:55:55.355 --> 00:55:56.715 ASCO in a couple of  
NOTE Confidence: 0.9885849  
00:55:56.715 --> 00:55:57.215 months.  
NOTE Confidence: 0.9349797  
00:55:58.235 --> 00:55:59.275 And we're looking forward to  
NOTE Confidence: 0.9349797  
00:55:59.275 --> 00:56:00.549 hear these data, and this  
NOTE Confidence: 0.9349797  
00:56:00.549 --> 00:56:01.289 will be practice  
NOTE Confidence: 0.9693277  
00:56:01.670 --> 00:56:03.190 reaffirming in the United States  
NOTE Confidence: 0.9693277  
00:56:03.190 --> 00:56:04.630 where we are very often  
NOTE Confidence: 0.9693277  
00:56:04.630 --> 00:56:07.109 using trastuzumab, deruxtecan. In second  
NOTE Confidence: 0.9693277  
00:56:07.109 --> 00:56:08.150 line, one of the take  
NOTE Confidence: 0.9693277  
00:56:08.150 --> 00:56:09.510 home messages from this trial  
NOTE Confidence: 0.9693277  
00:56:09.510 --> 00:56:10.250 would be,  
NOTE Confidence: 0.9880244

00:56:10.630 --> 00:56:12.170 the the concept of potentially  
NOTE Confidence: 0.9880244

00:56:12.309 --> 00:56:13.210 looking to rebiopsy  
NOTE Confidence: 0.98104364

00:56:13.510 --> 00:56:15.145 patients and confirm the HER2  
NOTE Confidence: 0.98104364

00:56:15.145 --> 00:56:15.645 positivity  
NOTE Confidence: 0.9738075

00:56:15.945 --> 00:56:18.025 status before treating these patients  
NOTE Confidence: 0.9738075

00:56:18.025 --> 00:56:18.525 with,  
NOTE Confidence: 0.9944374

00:56:18.825 --> 00:56:20.445 another HER2 targeted therapy.  
NOTE Confidence: 0.9264663

00:56:22.345 --> 00:56:23.705 We also saw very early  
NOTE Confidence: 0.9264663

00:56:23.705 --> 00:56:25.565 data from Destiny Gastric O3  
NOTE Confidence: 0.9264663

00:56:25.625 --> 00:56:26.585 where they were trying to  
NOTE Confidence: 0.9264663

00:56:26.585 --> 00:56:27.965 bring trastuzumab deruxtecan  
NOTE Confidence: 0.83325326

00:56:28.265 --> 00:56:29.085 into frontline  
NOTE Confidence: 0.92954254

00:56:29.500 --> 00:56:31.020 in combination with five,  
NOTE Confidence: 0.8570735

00:56:31.340 --> 00:56:32.480 five FU chemotherapy  
NOTE Confidence: 0.9882964

00:56:33.260 --> 00:56:34.160 and pembrolizumab.  
NOTE Confidence: 0.98089135

00:56:35.180 --> 00:56:35.680 And,

NOTE Confidence: 0.98614997  
00:56:36.460 --> 00:56:38.000 these data were actually presented,  
NOTE Confidence: 0.85616887  
00:56:38.380 --> 00:56:40.219 late last year, by doctor  
NOTE Confidence: 0.85616887  
00:56:40.219 --> 00:56:41.180 Janjigin at,  
NOTE Confidence: 0.9106867  
00:56:41.660 --> 00:56:42.160 ESMO,  
NOTE Confidence: 0.97771674  
00:56:42.540 --> 00:56:44.060 where there was actually very  
NOTE Confidence: 0.97771674  
00:56:44.060 --> 00:56:44.560 promising,  
NOTE Confidence: 0.96164936  
00:56:45.465 --> 00:56:47.145 waterfall plots that we saw  
NOTE Confidence: 0.96164936  
00:56:47.145 --> 00:56:48.605 of the combination of trastuzumab,  
NOTE Confidence: 0.96164936  
00:56:48.825 --> 00:56:49.325 daroxetecan  
NOTE Confidence: 0.86582977  
00:56:49.785 --> 00:56:51.864 with chemotherapy with five f  
NOTE Confidence: 0.86582977  
00:56:51.864 --> 00:56:53.005 u and pembrolizumab.  
NOTE Confidence: 0.99844897  
00:56:53.625 --> 00:56:54.685 And you can see,  
NOTE Confidence: 0.99701744  
00:56:55.065 --> 00:56:56.745 almost all the patients responded  
NOTE Confidence: 0.99701744  
00:56:56.745 --> 00:56:58.525 to treatment with a progression  
NOTE Confidence: 0.99701744  
00:56:58.585 --> 00:56:59.945 free survival of about ten  
NOTE Confidence: 0.99701744

00:56:59.945 --> 00:57:00.445 months.

NOTE Confidence: 0.99912626

00:57:01.020 --> 00:57:02.320 One of the concerns about

NOTE Confidence: 0.82965326

00:57:02.620 --> 00:57:03.820 the ethnic gastric o three

NOTE Confidence: 0.82965326

00:57:03.820 --> 00:57:04.320 was,

NOTE Confidence: 0.9446842

00:57:04.860 --> 00:57:06.400 the higher dose of trastuzumab

NOTE Confidence: 0.9446842

00:57:06.620 --> 00:57:08.140 derazecan with six point four

NOTE Confidence: 0.9446842

00:57:08.140 --> 00:57:10.060 milligrams per kilogram actually had

NOTE Confidence: 0.9446842

00:57:10.060 --> 00:57:11.520 quite a lot of toxicities.

NOTE Confidence: 0.9860489

00:57:11.980 --> 00:57:13.420 And so they actually opened

NOTE Confidence: 0.9860489

00:57:13.420 --> 00:57:15.234 a second cohort with a

NOTE Confidence: 0.9860489

00:57:15.234 --> 00:57:16.355 lower dose of five point

NOTE Confidence: 0.9860489

00:57:16.355 --> 00:57:17.795 four milligrams per kilogram of,

NOTE Confidence: 0.751405

00:57:18.435 --> 00:57:19.655 atrazuzumab deruxtecan.

NOTE Confidence: 0.97348523

00:57:20.115 --> 00:57:21.815 And this had very similar

NOTE Confidence: 0.97348523

00:57:21.875 --> 00:57:23.075 sort of response rates and

NOTE Confidence: 0.97348523

00:57:23.075 --> 00:57:23.575 survival,

NOTE Confidence: 0.98967

00:57:23.875 --> 00:57:25.395 but had much, much lower

NOTE Confidence: 0.98967

00:57:25.395 --> 00:57:25.895 toxicities.

NOTE Confidence: 0.9688569

00:57:26.675 --> 00:57:27.875 And this is what has

NOTE Confidence: 0.9688569

00:57:27.875 --> 00:57:29.820 now translated into the DESTINY

NOTE Confidence: 0.9688569

00:57:29.820 --> 00:57:31.740 gastric o five trial, which

NOTE Confidence: 0.9688569

00:57:31.740 --> 00:57:33.900 is looking at frontline HER2

NOTE Confidence: 0.9688569

00:57:33.900 --> 00:57:36.240 positive gastric cancer and randomizing

NOTE Confidence: 0.9688569

00:57:36.300 --> 00:57:38.240 patients to receive TDXD

NOTE Confidence: 0.918596

00:57:38.780 --> 00:57:40.000 chemotherapy and pembrolizumab

NOTE Confidence: 0.92214674

00:57:40.700 --> 00:57:42.380 versus the toga versus the

NOTE Confidence: 0.92214674

00:57:42.380 --> 00:57:44.505 keynote eight eleven regimen with,

NOTE Confidence: 0.92214674

00:57:44.984 --> 00:57:45.484 chemotherapy,

NOTE Confidence: 0.9640145

00:57:45.865 --> 00:57:47.164 trastuzumab, and pembrolizumab.

NOTE Confidence: 0.9387101

00:57:48.345 --> 00:57:49.545 And this trial is actually

NOTE Confidence: 0.9387101

00:57:49.545 --> 00:57:51.005 opening at Yale very soon.

NOTE Confidence: 0.9255125

00:57:54.105 --> 00:57:56.345 Next, switching gears. Doctor Gibson

NOTE Confidence: 0.9255125

00:57:56.345 --> 00:57:57.865 spoke about claudin eighteen point

NOTE Confidence: 0.9255125

00:57:57.865 --> 00:57:58.260 two.

NOTE Confidence: 0.96573013

00:57:58.740 --> 00:58:00.340 This is a normal protein

NOTE Confidence: 0.96573013

00:58:00.340 --> 00:58:02.420 that's expressed, tight junction protein

NOTE Confidence: 0.96573013

00:58:02.420 --> 00:58:03.480 that's seen in,

NOTE Confidence: 0.9578125

00:58:04.020 --> 00:58:05.400 normal gastric mucosa.

NOTE Confidence: 0.99091977

00:58:05.780 --> 00:58:06.280 But,

NOTE Confidence: 0.9640464

00:58:07.220 --> 00:58:08.660 in cancer cells, the the

NOTE Confidence: 0.9640464

00:58:08.660 --> 00:58:10.180 the claudin eighteen the tumor

NOTE Confidence: 0.9640464

00:58:10.180 --> 00:58:11.640 cells lose the polarity

NOTE Confidence: 0.96101385

00:58:12.035 --> 00:58:13.335 that leads to an overexpression

NOTE Confidence: 0.96101385

00:58:13.475 --> 00:58:14.755 of claudin eighteen point two

NOTE Confidence: 0.96101385

00:58:14.755 --> 00:58:15.415 on surface,

NOTE Confidence: 0.97334146

00:58:15.715 --> 00:58:16.455 and zolbituximab

NOTE Confidence: 0.9969059

00:58:16.835 --> 00:58:18.435 is a monoclonal antibody that

NOTE Confidence: 0.9969059  
00:58:18.435 --> 00:58:19.875 binds to claudin eighteen point  
NOTE Confidence: 0.9969059  
00:58:19.875 --> 00:58:20.375 two.  
NOTE Confidence: 0.97220194  
00:58:22.435 --> 00:58:23.555 A couple of years ago  
NOTE Confidence: 0.97220194  
00:58:23.555 --> 00:58:24.950 now, we saw,  
NOTE Confidence: 0.959265  
00:58:25.330 --> 00:58:27.090 two randomized phase three trials,  
NOTE Confidence: 0.959265  
00:58:27.090 --> 00:58:28.710 the SPOTLIGHT and GLO trials.  
NOTE Confidence: 0.959265  
00:58:28.930 --> 00:58:30.050 Both trials looked at the  
NOTE Confidence: 0.959265  
00:58:30.050 --> 00:58:31.270 combination of chemotherapy.  
NOTE Confidence: 0.9808459  
00:58:31.890 --> 00:58:33.349 SPOTLIGHT looked at FOLFOX,  
NOTE Confidence: 0.98714536  
00:58:33.810 --> 00:58:34.310 while,  
NOTE Confidence: 0.9391488  
00:58:34.770 --> 00:58:36.070 GLO looked at KPOXX  
NOTE Confidence: 0.94105256  
00:58:36.575 --> 00:58:37.715 with or without zolpidemap  
NOTE Confidence: 0.97839934  
00:58:38.335 --> 00:58:39.855 in patients that had an  
NOTE Confidence: 0.97839934  
00:58:39.855 --> 00:58:41.695 overexpression of claudine eighteen point  
NOTE Confidence: 0.97839934  
00:58:41.695 --> 00:58:43.695 two, which doctor Gibson explained  
NOTE Confidence: 0.97839934

00:58:43.695 --> 00:58:44.975 was in more than seventy  
NOTE Confidence: 0.97839934

00:58:44.975 --> 00:58:46.015 five percent of the tumor  
NOTE Confidence: 0.97839934

00:58:46.015 --> 00:58:47.795 cells. And in both trials,  
NOTE Confidence: 0.983256

00:58:48.895 --> 00:58:50.355 there was an overall survival  
NOTE Confidence: 0.983256

00:58:50.415 --> 00:58:51.780 benefit for the addition of  
NOTE Confidence: 0.983256

00:58:51.780 --> 00:58:52.280 zolpituximab  
NOTE Confidence: 0.71050566

00:58:52.740 --> 00:58:53.400 two chemotherapy  
NOTE Confidence: 0.9262026

00:58:54.100 --> 00:58:55.780 with an overall survival benefit  
NOTE Confidence: 0.9262026

00:58:55.780 --> 00:58:57.220 improvement of about three months  
NOTE Confidence: 0.9262026

00:58:57.220 --> 00:58:58.420 in both trials and a  
NOTE Confidence: 0.9262026

00:58:58.420 --> 00:58:59.700 hazards ratio of zero point  
NOTE Confidence: 0.9262026

00:58:59.700 --> 00:59:00.520 seven five.  
NOTE Confidence: 0.97930723

00:59:00.820 --> 00:59:01.780 There was also a very  
NOTE Confidence: 0.97930723

00:59:01.780 --> 00:59:03.540 clear improvement in progression free  
NOTE Confidence: 0.97930723

00:59:03.540 --> 00:59:05.220 survival that was matched on  
NOTE Confidence: 0.97930723

00:59:05.220 --> 00:59:06.885 both trials. And this led

NOTE Confidence: 0.97930723

00:59:06.885 --> 00:59:08.665 to the approval of zolbituximab

NOTE Confidence: 0.9811585

00:59:09.365 --> 00:59:09.865 in,

NOTE Confidence: 0.97349006

00:59:10.405 --> 00:59:12.085 the United States. The FDA

NOTE Confidence: 0.97349006

00:59:12.085 --> 00:59:13.445 approved it in October last

NOTE Confidence: 0.97349006

00:59:13.445 --> 00:59:14.665 year. And so,

NOTE Confidence: 0.980831

00:59:15.205 --> 00:59:16.245 most patients that have an

NOTE Confidence: 0.980831

00:59:16.245 --> 00:59:17.845 expression of claudoin eighteen point

NOTE Confidence: 0.980831

00:59:17.845 --> 00:59:19.385 two can be offered zolbituximab

NOTE Confidence: 0.99548495

00:59:19.845 --> 00:59:21.145 in combination with chemotherapy.

NOTE Confidence: 0.97507364

00:59:23.849 --> 00:59:25.690 Interestingly, in both trials, there

NOTE Confidence: 0.97507364

00:59:25.690 --> 00:59:27.390 was no improvement in objective

NOTE Confidence: 0.97507364

00:59:27.450 --> 00:59:28.890 response rates to the addition

NOTE Confidence: 0.97507364

00:59:28.890 --> 00:59:29.470 of zolpidemab.

NOTE Confidence: 0.9415065

00:59:29.770 --> 00:59:30.809 So although there was a

NOTE Confidence: 0.9415065

00:59:30.809 --> 00:59:33.050 survival improvement, there was no

NOTE Confidence: 0.9415065

00:59:33.050 --> 00:59:34.829 objective response rate improvement,  
NOTE Confidence: 0.8547376

00:59:35.530 --> 00:59:36.030 with,  
NOTE Confidence: 0.9295767

00:59:36.494 --> 00:59:37.295 in as you can see  
NOTE Confidence: 0.9295767

00:59:37.295 --> 00:59:38.575 in spotlight, it was sixty  
NOTE Confidence: 0.9295767

00:59:38.575 --> 00:59:39.795 point seven in the zolbituximab  
NOTE Confidence: 0.84288245

00:59:40.095 --> 00:59:41.474 arm and sixty two  
NOTE Confidence: 0.9973839

00:59:41.855 --> 00:59:43.795 percent in the placebo arm.  
NOTE Confidence: 0.9875892

00:59:45.375 --> 00:59:47.134 One of the problems with,  
NOTE Confidence: 0.9875892

00:59:47.535 --> 00:59:48.035 zolbituximab  
NOTE Confidence: 0.98872113

00:59:48.770 --> 00:59:49.670 is that because  
NOTE Confidence: 0.9658399

00:59:50.130 --> 00:59:51.410 the claudine eighteen point two  
NOTE Confidence: 0.9658399

00:59:51.410 --> 00:59:52.690 is expressed in the normal  
NOTE Confidence: 0.9658399

00:59:52.690 --> 00:59:53.589 gastric mucosa  
NOTE Confidence: 0.9724057

00:59:53.890 --> 00:59:55.250 is that there is quite  
NOTE Confidence: 0.9724057

00:59:55.250 --> 00:59:56.530 a lot of nausea and  
NOTE Confidence: 0.9724057

00:59:56.530 --> 00:59:58.390 vomiting that these patients express,

NOTE Confidence: 0.97883725  
00:59:58.849 --> 01:00:00.690 these patients face, and the  
NOTE Confidence: 0.97883725  
01:00:00.690 --> 01:00:02.130 nausea and vomiting is very  
NOTE Confidence: 0.97883725  
01:00:02.130 --> 01:00:02.630 often  
NOTE Confidence: 0.9990757  
01:00:03.705 --> 01:00:05.065 maximum in the first couple  
NOTE Confidence: 0.9990757  
01:00:05.065 --> 01:00:05.725 of cycles  
NOTE Confidence: 0.999874  
01:00:06.025 --> 01:00:06.525 of  
NOTE Confidence: 0.87155604  
01:00:08.105 --> 01:00:08.925 treatment with zolbituximab.  
NOTE Confidence: 0.9490612  
01:00:09.945 --> 01:00:10.445 And,  
NOTE Confidence: 0.9865456  
01:00:11.305 --> 01:00:12.985 for the medical oncologist listening  
NOTE Confidence: 0.9865456  
01:00:12.985 --> 01:00:14.345 to this talk, one would  
NOTE Confidence: 0.9865456  
01:00:14.345 --> 01:00:15.085 say, hey.  
NOTE Confidence: 0.9892752  
01:00:15.410 --> 01:00:16.290 We know how to deal  
NOTE Confidence: 0.9892752  
01:00:16.290 --> 01:00:18.530 with, high dose chemotherapy and  
NOTE Confidence: 0.9892752  
01:00:18.530 --> 01:00:19.650 nausea and vomiting, and this  
NOTE Confidence: 0.9892752  
01:00:19.650 --> 01:00:20.530 is not something that we  
NOTE Confidence: 0.9892752

01:00:20.530 --> 01:00:21.650 need to be taught again.  
NOTE Confidence: 0.9892752

01:00:21.650 --> 01:00:22.530 But the truth is that  
NOTE Confidence: 0.9892752

01:00:22.530 --> 01:00:23.650 the nausea and vomiting for  
NOTE Confidence: 0.9892752

01:00:23.650 --> 01:00:24.150 zolbituximab  
NOTE Confidence: 0.9919917

01:00:24.610 --> 01:00:25.970 is so unique that they  
NOTE Confidence: 0.9919917

01:00:25.970 --> 01:00:27.010 actually had to have a  
NOTE Confidence: 0.9919917

01:00:27.010 --> 01:00:28.150 consensus guidelines  
NOTE Confidence: 0.9613719

01:00:28.505 --> 01:00:29.705 for the management of the  
NOTE Confidence: 0.9613719

01:00:29.705 --> 01:00:31.245 nausea and vomiting with zolpidemaximab.  
NOTE Confidence: 0.9757508

01:00:31.785 --> 01:00:33.145 This was a consensus guideline  
NOTE Confidence: 0.9757508

01:00:33.145 --> 01:00:34.185 just published a couple of  
NOTE Confidence: 0.9757508

01:00:34.185 --> 01:00:35.885 months ago, and the recommendation  
NOTE Confidence: 0.9550126

01:00:36.425 --> 01:00:38.025 is actually for using a  
NOTE Confidence: 0.9550126

01:00:38.025 --> 01:00:40.105 highly hematogenic regimen with an  
NOTE Confidence: 0.9550126

01:00:40.105 --> 01:00:41.165 NK1 inhibitor,  
NOTE Confidence: 0.962303

01:00:41.705 --> 01:00:43.165 five HT3 inhibitor,

NOTE Confidence: 0.9071665

01:00:43.690 --> 01:00:44.190 dexamethasone,

NOTE Confidence: 0.99221325

01:00:44.490 --> 01:00:45.470 as well as olanzapine

NOTE Confidence: 0.8999043

01:00:46.010 --> 01:00:47.790 with other recommendations of triplet

NOTE Confidence: 0.8999043

01:00:48.010 --> 01:00:49.230 anti nausea, vomiting,

NOTE Confidence: 0.95696515

01:00:49.930 --> 01:00:51.450 regimens as well. But at

NOTE Confidence: 0.95696515

01:00:51.450 --> 01:00:52.890 Yale, we have actually adopted

NOTE Confidence: 0.95696515

01:00:52.890 --> 01:00:54.410 the four drug regimen for

NOTE Confidence: 0.95696515

01:00:54.410 --> 01:00:56.170 the treatment of patients receiving

NOTE Confidence: 0.95696515

01:00:56.170 --> 01:00:56.670 sorbituximab,

NOTE Confidence: 0.9532445

01:00:57.785 --> 01:00:58.985 And the nausea and vomiting

NOTE Confidence: 0.9532445

01:00:58.985 --> 01:01:00.185 has definitely been a lot

NOTE Confidence: 0.9532445

01:01:00.185 --> 01:01:00.925 more manageable

NOTE Confidence: 0.9948685

01:01:01.385 --> 01:01:02.525 with this regimen.

NOTE Confidence: 0.93013656

01:01:07.145 --> 01:01:08.185 Again, a couple of months

NOTE Confidence: 0.93013656

01:01:08.185 --> 01:01:09.305 ago, we also saw the

NOTE Confidence: 0.93013656

01:01:09.305 --> 01:01:10.825 results for joint analysis of  
NOTE Confidence: 0.93013656

01:01:10.825 --> 01:01:12.270 both the Spotlight and Lou.  
NOTE Confidence: 0.93013656

01:01:12.350 --> 01:01:14.030 Again reinforcing this idea that  
NOTE Confidence: 0.93013656

01:01:14.030 --> 01:01:15.090 the addition of zolbituximab  
NOTE Confidence: 0.9290588

01:01:15.790 --> 01:01:16.450 to chemotherapy  
NOTE Confidence: 0.9987833

01:01:16.830 --> 01:01:17.490 was beneficial  
NOTE Confidence: 0.9573283

01:01:17.790 --> 01:01:19.070 with a very nice hazards  
NOTE Confidence: 0.9573283

01:01:19.070 --> 01:01:20.350 ratio of zero point seven  
NOTE Confidence: 0.9573283

01:01:20.350 --> 01:01:21.730 seven for overall survival.  
NOTE Confidence: 0.8680723

01:01:22.030 --> 01:01:22.990 And this was published in  
NOTE Confidence: 0.8680723

01:01:22.990 --> 01:01:24.030 the New England of General  
NOTE Confidence: 0.8680723

01:01:24.030 --> 01:01:24.530 Medicine,  
NOTE Confidence: 0.9979938

01:01:25.070 --> 01:01:26.370 a couple of months ago.  
NOTE Confidence: 0.97181416

01:01:28.155 --> 01:01:29.195 One of the things that  
NOTE Confidence: 0.97181416

01:01:29.195 --> 01:01:30.735 are unique with gastric esophageal  
NOTE Confidence: 0.97181416

01:01:30.795 --> 01:01:32.315 cancers is the fact that

NOTE Confidence: 0.97181416  
01:01:32.315 --> 01:01:33.535 a lot of the biomarkers  
NOTE Confidence: 0.97181416  
01:01:33.595 --> 01:01:35.275 that we use are not  
NOTE Confidence: 0.97181416  
01:01:35.275 --> 01:01:37.435 oncogene drivers, and therefore are  
NOTE Confidence: 0.97181416  
01:01:37.435 --> 01:01:38.175 not uniquely  
NOTE Confidence: 0.98056877  
01:01:38.475 --> 01:01:40.290 present in each tumor. And  
NOTE Confidence: 0.98056877  
01:01:40.290 --> 01:01:41.170 there is a lot of  
NOTE Confidence: 0.98056877  
01:01:41.170 --> 01:01:42.470 overlap in the coexpression  
NOTE Confidence: 0.9911601  
01:01:42.770 --> 01:01:44.470 of these biomarkers in tumors.  
NOTE Confidence: 0.9675822  
01:01:44.770 --> 01:01:45.810 This means that there could  
NOTE Confidence: 0.9675822  
01:01:45.810 --> 01:01:47.170 be patients that have or  
NOTE Confidence: 0.9675822  
01:01:47.170 --> 01:01:48.610 tumors that have expression of  
NOTE Confidence: 0.9675822  
01:01:48.610 --> 01:01:50.150 both PD L1 and claudin,  
NOTE Confidence: 0.9675822  
01:01:50.370 --> 01:01:52.130 claudin and HER2. And there's  
NOTE Confidence: 0.9675822  
01:01:52.130 --> 01:01:53.410 a lot of because a  
NOTE Confidence: 0.9675822  
01:01:53.410 --> 01:01:55.175 lot of the targeted therapies  
NOTE Confidence: 0.9675822

01:01:55.175 --> 01:01:56.775 are combined with chemotherapy in  
NOTE Confidence: 0.9675822

01:01:56.775 --> 01:01:57.435 the frontline,  
NOTE Confidence: 0.9971136

01:01:57.735 --> 01:01:58.875 there's a lot of confusion  
NOTE Confidence: 0.9971136

01:01:59.015 --> 01:01:59.755 on whether,  
NOTE Confidence: 0.9502647

01:02:00.215 --> 01:02:01.735 patients who have coexpression of  
NOTE Confidence: 0.9502647

01:02:01.735 --> 01:02:03.175 both Claudin and PDL one,  
NOTE Confidence: 0.9502647

01:02:03.175 --> 01:02:05.095 for example, should receive either  
NOTE Confidence: 0.9502647

01:02:05.095 --> 01:02:05.595 immunotherapy  
NOTE Confidence: 0.9897117

01:02:06.135 --> 01:02:08.215 or Claudin targeted therapies in  
NOTE Confidence: 0.9897117

01:02:08.215 --> 01:02:08.715 frontline.  
NOTE Confidence: 0.9216214

01:02:09.330 --> 01:02:10.690 And to actually answer this  
NOTE Confidence: 0.9216214

01:02:10.690 --> 01:02:12.210 question, we are the the  
NOTE Confidence: 0.9216214

01:02:12.210 --> 01:02:13.650 Lucerne trial is looking at  
NOTE Confidence: 0.9216214

01:02:13.650 --> 01:02:15.750 both HER2 positive and PDL1  
NOTE Confidence: 0.9216214

01:02:15.970 --> 01:02:17.830 positive metastatic gastrosophageal  
NOTE Confidence: 0.87970865

01:02:18.210 --> 01:02:20.370 cancers and randomizing these patients

NOTE Confidence: 0.87970865

01:02:20.370 --> 01:02:22.230 who receive chemotherapy and pembrolizumab

NOTE Confidence: 0.95436937

01:02:22.930 --> 01:02:24.070 with or without zolbituximab.

NOTE Confidence: 0.9440243

01:02:24.865 --> 01:02:25.985 And this is another trial

NOTE Confidence: 0.9440243

01:02:25.985 --> 01:02:27.105 that's gonna be opening up

NOTE Confidence: 0.9440243

01:02:27.105 --> 01:02:28.305 at Yale soon for patients

NOTE Confidence: 0.9440243

01:02:28.305 --> 01:02:29.985 that have both expression of

NOTE Confidence: 0.9440243

01:02:29.985 --> 01:02:32.225 HER2 and, not HER2. Sorry.

NOTE Confidence: 0.9440243

01:02:32.225 --> 01:02:33.765 Of PDL one and claudin.

NOTE Confidence: 0.9487794

01:02:34.625 --> 01:02:35.845 This is an error. Sorry.

NOTE Confidence: 0.9794173

01:02:40.180 --> 01:02:41.079 And, of course,

NOTE Confidence: 0.9963938

01:02:41.380 --> 01:02:42.420 all of us are familiar

NOTE Confidence: 0.9963938

01:02:42.420 --> 01:02:43.799 with the idea of of,

NOTE Confidence: 0.98121333

01:02:44.740 --> 01:02:46.819 immunotherapy in combination with,

NOTE Confidence: 0.70559376

01:02:47.460 --> 01:02:47.960 chemotherapy

NOTE Confidence: 0.9631309

01:02:48.579 --> 01:02:50.500 for frontline treatment of metastatic,

NOTE Confidence: 0.9631309

01:02:50.500 --> 01:02:52.365 gastric, esophageal cancers. We have  
NOTE Confidence: 0.9631309

01:02:52.365 --> 01:02:54.445 multiple different clinical trials with  
NOTE Confidence: 0.9631309

01:02:54.445 --> 01:02:54.945 pembrolizumab,  
NOTE Confidence: 0.99145377

01:02:55.485 --> 01:02:56.705 nivolumab, tislelizumab,  
NOTE Confidence: 0.99319965

01:02:57.245 --> 01:02:58.845 all FDA approved for frontline  
NOTE Confidence: 0.99319965

01:02:58.845 --> 01:02:59.345 treatment,  
NOTE Confidence: 0.8768903

01:03:00.285 --> 01:03:01.665 in combination with chemotherapy.  
NOTE Confidence: 0.9393696

01:03:02.765 --> 01:03:04.465 There's a lot of controversy  
NOTE Confidence: 0.9393696

01:03:04.605 --> 01:03:06.400 around the PDL one cutoff.  
NOTE Confidence: 0.9393696

01:03:06.400 --> 01:03:07.840 And as doctor Gibson mentioned,  
NOTE Confidence: 0.9393696

01:03:07.840 --> 01:03:08.560 we are not going to  
NOTE Confidence: 0.9393696

01:03:08.560 --> 01:03:09.760 go into that rabbit hole  
NOTE Confidence: 0.9393696

01:03:09.760 --> 01:03:11.120 today. But the idea is  
NOTE Confidence: 0.9393696

01:03:11.120 --> 01:03:11.620 that,  
NOTE Confidence: 0.939337

01:03:12.000 --> 01:03:13.520 the general principle is that  
NOTE Confidence: 0.939337

01:03:13.520 --> 01:03:15.620 for PD L1 experiencing tumors,

NOTE Confidence: 0.939337  
01:03:15.760 --> 01:03:17.300 that the addition of immunotherapy  
NOTE Confidence: 0.9588177  
01:03:17.600 --> 01:03:19.140 to chemotherapy in frontline  
NOTE Confidence: 0.9630162  
01:03:19.520 --> 01:03:21.700 is, considered standard of care.  
NOTE Confidence: 0.9908289  
01:03:23.255 --> 01:03:24.535 One of the questions is,  
NOTE Confidence: 0.9908289  
01:03:24.535 --> 01:03:25.415 is there a role for  
NOTE Confidence: 0.9908289  
01:03:25.415 --> 01:03:27.435 the continuation of immunotherapy  
NOTE Confidence: 0.9682118  
01:03:27.735 --> 01:03:29.415 into second line? And here  
NOTE Confidence: 0.9682118  
01:03:29.415 --> 01:03:30.955 we have the PARAMUNE study,  
NOTE Confidence: 0.9682118  
01:03:31.095 --> 01:03:32.695 which is looking at adding  
NOTE Confidence: 0.9682118  
01:03:32.695 --> 01:03:33.195 nivolumab  
NOTE Confidence: 0.9812114  
01:03:33.495 --> 01:03:35.015 to a second line regimen  
NOTE Confidence: 0.9812114  
01:03:35.015 --> 01:03:36.555 of paclitaxel and ramasirumab  
NOTE Confidence: 0.9108539  
01:03:37.220 --> 01:03:38.579 for tumors that have a  
NOTE Confidence: 0.9108539  
01:03:38.579 --> 01:03:40.260 PD L1 CPS score of  
NOTE Confidence: 0.9108539  
01:03:40.260 --> 01:03:41.079 one or greater.  
NOTE Confidence: 0.93183285

01:03:41.940 --> 01:03:43.220 And this study is also  
NOTE Confidence: 0.93183285

01:03:43.220 --> 01:03:44.119 gonna be opening,  
NOTE Confidence: 0.99858934

01:03:45.140 --> 01:03:46.279 at Yale soon.  
NOTE Confidence: 0.93859994

01:03:49.345 --> 01:03:50.785 And lastly, moving into the  
NOTE Confidence: 0.93859994

01:03:50.785 --> 01:03:52.645 earlier phase of resectable gastroesophageal  
NOTE Confidence: 0.97197264

01:03:53.025 --> 01:03:53.845 cancer space,  
NOTE Confidence: 0.98855704

01:03:54.625 --> 01:03:56.005 we have had the CheckMate  
NOTE Confidence: 0.98855704

01:03:56.065 --> 01:03:57.745 five seventy seven study that  
NOTE Confidence: 0.98855704

01:03:57.745 --> 01:03:59.025 looked at patients that had  
NOTE Confidence: 0.98855704

01:03:59.025 --> 01:04:00.085 undergone chemoradiation  
NOTE Confidence: 0.9026021

01:04:00.385 --> 01:04:01.839 and surgery, and then,  
NOTE Confidence: 0.95400494

01:04:02.240 --> 01:04:03.680 did not for those who  
NOTE Confidence: 0.95400494

01:04:03.680 --> 01:04:05.140 had not achieved a pathological  
NOTE Confidence: 0.95400494

01:04:05.280 --> 01:04:07.280 complete response were randomized to  
NOTE Confidence: 0.95400494

01:04:07.280 --> 01:04:09.220 either receive nivolumab or placebo.  
NOTE Confidence: 0.9670264

01:04:09.520 --> 01:04:10.720 And this study had a

NOTE Confidence: 0.9670264  
01:04:10.720 --> 01:04:12.480 disease free survival benefit, and  
NOTE Confidence: 0.9670264  
01:04:12.480 --> 01:04:13.440 this has been something that  
NOTE Confidence: 0.9670264  
01:04:13.440 --> 01:04:14.480 we have been offering our  
NOTE Confidence: 0.9670264  
01:04:14.480 --> 01:04:14.980 patients.  
NOTE Confidence: 0.80230856  
01:04:15.359 --> 01:04:15.859 But,  
NOTE Confidence: 0.9723106  
01:04:17.735 --> 01:04:18.535 in a couple of months,  
NOTE Confidence: 0.9723106  
01:04:18.535 --> 01:04:19.255 we are going to see  
NOTE Confidence: 0.9723106  
01:04:19.255 --> 01:04:20.855 the overall survival data that  
NOTE Confidence: 0.9723106  
01:04:20.855 --> 01:04:21.815 are going to be presented  
NOTE Confidence: 0.9723106  
01:04:21.815 --> 01:04:22.635 at ASCO.  
NOTE Confidence: 0.96729916  
01:04:23.015 --> 01:04:23.975 And we are looking forward  
NOTE Confidence: 0.96729916  
01:04:23.975 --> 01:04:25.095 to see whether the overall  
NOTE Confidence: 0.96729916  
01:04:25.095 --> 01:04:26.455 survival will be positive for  
NOTE Confidence: 0.96729916  
01:04:26.455 --> 01:04:27.675 this important trial.  
NOTE Confidence: 0.9552657  
01:04:28.775 --> 01:04:30.055 We also saw data from  
NOTE Confidence: 0.9552657

01:04:30.055 --> 01:04:31.950 KEYNOTE-five eighty five that looked  
NOTE Confidence: 0.9552657

01:04:31.950 --> 01:04:33.330 at the addition of pembrolizumab  
NOTE Confidence: 0.86257094

01:04:33.950 --> 01:04:35.650 two chemotherapy in the perioperative  
NOTE Confidence: 0.94180804

01:04:36.030 --> 01:04:38.030 setting followed by surgery. And  
NOTE Confidence: 0.94180804

01:04:38.030 --> 01:04:39.390 this was actually a negative  
NOTE Confidence: 0.94180804

01:04:39.390 --> 01:04:40.609 trial where,  
NOTE Confidence: 0.9555266

01:04:41.230 --> 01:04:42.770 although there was an event  
NOTE Confidence: 0.9555266

01:04:42.830 --> 01:04:44.830 event free survival benefit, this  
NOTE Confidence: 0.9555266

01:04:44.830 --> 01:04:46.849 did not achieve statistical significance  
NOTE Confidence: 0.99812746

01:04:47.335 --> 01:04:49.015 and the overall survival benefit  
NOTE Confidence: 0.99812746

01:04:49.015 --> 01:04:49.675 was not  
NOTE Confidence: 0.9454245

01:04:50.055 --> 01:04:50.555 positive  
NOTE Confidence: 0.99276924

01:04:50.855 --> 01:04:52.715 for the addition of pembrolizumab  
NOTE Confidence: 0.668659

01:04:53.175 --> 01:04:53.915 two chemotherapy.  
NOTE Confidence: 0.93426174

01:04:55.255 --> 01:04:56.935 However, we also saw data  
NOTE Confidence: 0.93426174

01:04:56.935 --> 01:04:58.295 from the MATAHONE study that

NOTE Confidence: 0.93426174  
01:04:58.295 --> 01:05:00.235 was a more cleanly designed,  
NOTE Confidence: 0.95090187  
01:05:00.690 --> 01:05:03.010 single endpoint study and with  
NOTE Confidence: 0.95090187  
01:05:03.010 --> 01:05:04.470 a more consistent chemotherapy  
NOTE Confidence: 0.92861253  
01:05:04.770 --> 01:05:06.150 backbone with FLOT,  
NOTE Confidence: 0.94173247  
01:05:06.450 --> 01:05:07.970 and in this study, patients  
NOTE Confidence: 0.94173247  
01:05:07.970 --> 01:05:10.450 with FLOT were, come were  
NOTE Confidence: 0.94173247  
01:05:10.450 --> 01:05:12.230 randomized to either receive durvalumab  
NOTE Confidence: 0.9239268  
01:05:12.690 --> 01:05:14.575 or placebo and then underwent  
NOTE Confidence: 0.9239268  
01:05:14.575 --> 01:05:16.595 surgery and then either continue  
NOTE Confidence: 0.9239268  
01:05:16.815 --> 01:05:18.655 with durvalumab and FLOT. And  
NOTE Confidence: 0.9239268  
01:05:18.655 --> 01:05:20.255 this study, we saw earlier  
NOTE Confidence: 0.9239268  
01:05:20.255 --> 01:05:20.755 data,  
NOTE Confidence: 0.9961098  
01:05:21.135 --> 01:05:22.335 looking at an improvement in  
NOTE Confidence: 0.9961098  
01:05:22.335 --> 01:05:22.835 pathological  
NOTE Confidence: 0.96320426  
01:05:23.135 --> 01:05:25.375 complete response of nineteen percent  
NOTE Confidence: 0.96320426

01:05:25.375 --> 01:05:27.640 versus seven percent. But, at  
NOTE Confidence: 0.96320426

01:05:27.640 --> 01:05:29.080 ASCO this year, we are  
NOTE Confidence: 0.96320426

01:05:29.080 --> 01:05:30.920 gonna see, as a plenary  
NOTE Confidence: 0.96320426

01:05:30.920 --> 01:05:32.780 session, the event free survival,  
NOTE Confidence: 0.9186796

01:05:33.240 --> 01:05:33.980 of Matterhorn,  
NOTE Confidence: 0.94569683

01:05:34.280 --> 01:05:35.960 and the press release announced  
NOTE Confidence: 0.94569683

01:05:35.960 --> 01:05:37.080 that this had achieved its  
NOTE Confidence: 0.94569683

01:05:37.080 --> 01:05:38.119 primary endpoint and is a  
NOTE Confidence: 0.94569683

01:05:38.119 --> 01:05:39.400 positive study. So this is  
NOTE Confidence: 0.94569683

01:05:39.400 --> 01:05:41.180 definitely gonna be practice changing,  
NOTE Confidence: 0.94569683

01:05:41.375 --> 01:05:43.135 and very likely patients are  
NOTE Confidence: 0.94569683

01:05:43.135 --> 01:05:44.174 going to start going to  
NOTE Confidence: 0.94569683

01:05:44.174 --> 01:05:44.915 be offered,  
NOTE Confidence: 0.9095459

01:05:45.535 --> 01:05:47.234 FLOT in combination with dorvelumab,  
NOTE Confidence: 0.874245

01:05:48.174 --> 01:05:49.635 or resectable gastroesophageal  
NOTE Confidence: 0.9983559

01:05:50.174 --> 01:05:50.674 adenocarcinomas.

NOTE Confidence: 0.98272085

01:05:52.655 --> 01:05:53.535 And we are going to

NOTE Confidence: 0.98272085

01:05:53.535 --> 01:05:55.020 have multiple on the background

NOTE Confidence: 0.98272085

01:05:55.020 --> 01:05:55.820 of that, we are going

NOTE Confidence: 0.98272085

01:05:55.820 --> 01:05:57.760 to have multiple perioperative chemotherapy

NOTE Confidence: 0.9669682

01:05:58.460 --> 01:06:00.780 plus, novel therapeutic trials that

NOTE Confidence: 0.9669682

01:06:00.780 --> 01:06:01.980 are opening up at Yale

NOTE Confidence: 0.9669682

01:06:01.980 --> 01:06:02.700 in the next,

NOTE Confidence: 0.999078

01:06:03.100 --> 01:06:03.840 few months.

NOTE Confidence: 0.99773484

01:06:05.100 --> 01:06:05.820 At the end of the

NOTE Confidence: 0.99773484

01:06:05.820 --> 01:06:07.660 day, from a systemic therapy

NOTE Confidence: 0.99773484

01:06:07.660 --> 01:06:08.160 perspective,

NOTE Confidence: 0.9252017

01:06:08.525 --> 01:06:09.645 I think Doctor. Gibson will

NOTE Confidence: 0.9252017

01:06:09.645 --> 01:06:11.085 also agree that we should

NOTE Confidence: 0.9252017

01:06:11.085 --> 01:06:12.925 be testing all our biomarkers

NOTE Confidence: 0.9252017

01:06:12.925 --> 01:06:15.165 upfront for HER2 PDL1 claudine

NOTE Confidence: 0.9252017

01:06:15.165 --> 01:06:16.525 as well as mismatch repair  
NOTE Confidence: 0.9252017

01:06:16.525 --> 01:06:17.025 deficiency.  
NOTE Confidence: 0.9333852

01:06:17.645 --> 01:06:18.685 We know that addition of  
NOTE Confidence: 0.9333852

01:06:18.685 --> 01:06:19.185 pembrolizumab  
NOTE Confidence: 0.8252821

01:06:19.485 --> 01:06:21.345 two chemotherapy and HER2 positive,  
NOTE Confidence: 0.9959966

01:06:22.150 --> 01:06:22.650 tumors  
NOTE Confidence: 0.9342676

01:06:22.950 --> 01:06:24.630 are beneficial except in PD  
NOTE Confidence: 0.9342676

01:06:24.630 --> 01:06:25.850 L1 negative tumors.  
NOTE Confidence: 0.9850421

01:06:26.390 --> 01:06:27.450 The addition of zolbituximab  
NOTE Confidence: 0.9555306

01:06:28.150 --> 01:06:28.810 is important,  
NOTE Confidence: 0.9463174

01:06:29.350 --> 01:06:30.630 for patients that are claudan  
NOTE Confidence: 0.9463174

01:06:30.630 --> 01:06:31.770 eighteen point two positive,  
NOTE Confidence: 0.9785141

01:06:32.070 --> 01:06:33.930 but, the management of toxicities  
NOTE Confidence: 0.8906624

01:06:34.230 --> 01:06:34.970 will be key.  
NOTE Confidence: 0.9271035

01:06:36.695 --> 01:06:38.535 Darvelumab in combination with FLOT  
NOTE Confidence: 0.9271035

01:06:38.535 --> 01:06:39.895 is likely to be practice

NOTE Confidence: 0.9271035

01:06:39.895 --> 01:06:40.935 changing in the next few

NOTE Confidence: 0.9271035

01:06:40.935 --> 01:06:42.855 months. And we have multiple

NOTE Confidence: 0.9271035

01:06:42.855 --> 01:06:44.135 trial options for patients with

NOTE Confidence: 0.9271035

01:06:44.135 --> 01:06:46.295 gastrointestinal cancers across the entire

NOTE Confidence: 0.9271035

01:06:46.295 --> 01:06:46.795 network.

NOTE Confidence: 0.96702904

01:06:47.735 --> 01:06:49.255 And, with that, I'm going

NOTE Confidence: 0.96702904

01:06:49.255 --> 01:06:50.955 to, end my talk.

NOTE Confidence: 0.93380165

01:06:58.150 --> 01:06:59.550 We do have a a

NOTE Confidence: 0.93380165

01:06:59.550 --> 01:07:00.470 a few more minutes for

NOTE Confidence: 0.93380165

01:07:00.470 --> 01:07:01.990 question and answers. I encourage

NOTE Confidence: 0.93380165

01:07:01.990 --> 01:07:04.090 folks to, drop in questions

NOTE Confidence: 0.93380165

01:07:04.150 --> 01:07:04.970 into the,

NOTE Confidence: 0.9640831

01:07:05.270 --> 01:07:06.310 either into the chat or

NOTE Confidence: 0.9640831

01:07:06.310 --> 01:07:07.270 into the q and a

NOTE Confidence: 0.9640831

01:07:07.270 --> 01:07:07.665 box.

NOTE Confidence: 0.99622613

01:07:08.625 --> 01:07:09.365 In the meanwhile,  
NOTE Confidence: 0.97272545

01:07:09.905 --> 01:07:11.205 we we have,  
NOTE Confidence: 0.9911337

01:07:12.225 --> 01:07:12.945 one of our,  
NOTE Confidence: 0.9050329

01:07:13.265 --> 01:07:14.245 attendees who's,  
NOTE Confidence: 0.96473247

01:07:14.705 --> 01:07:16.465 actually an esophageal cancer survivor  
NOTE Confidence: 0.96473247

01:07:16.465 --> 01:07:18.225 who's gone through the entire  
NOTE Confidence: 0.96473247

01:07:18.225 --> 01:07:19.285 journey of chemoradiation  
NOTE Confidence: 0.934466

01:07:19.665 --> 01:07:20.645 as well as surgery,  
NOTE Confidence: 0.98366195

01:07:20.945 --> 01:07:22.485 and perhaps we could give  
NOTE Confidence: 0.99113035

01:07:23.520 --> 01:07:24.020 miss  
NOTE Confidence: 0.9884436

01:07:24.480 --> 01:07:24.980 Deepika  
NOTE Confidence: 0.9776625

01:07:25.360 --> 01:07:27.440 a chance to talk. Emily,  
NOTE Confidence: 0.9776625

01:07:27.440 --> 01:07:28.500 do you think we could  
NOTE Confidence: 0.9776625

01:07:28.640 --> 01:07:29.440 see if we could get  
NOTE Confidence: 0.9776625

01:07:29.440 --> 01:07:29.940 Deepika,  
NOTE Confidence: 0.95819646

01:07:31.040 --> 01:07:32.240 speaking right, or is she

NOTE Confidence: 0.95819646  
01:07:32.240 --> 01:07:33.780 already a panelist with us?  
NOTE Confidence: 0.9094937  
01:07:37.805 --> 01:07:39.645 Okay. I think Deepika has  
NOTE Confidence: 0.9094937  
01:07:39.645 --> 01:07:40.145 speaking.  
NOTE Confidence: 0.9992243  
01:07:41.565 --> 01:07:42.625 Deepika, can you hear us?  
NOTE Confidence: 0.9734708  
01:07:43.005 --> 01:07:44.125 Yeah. I can hear you,  
NOTE Confidence: 0.9734708  
01:07:44.125 --> 01:07:45.744 but am I audible?  
NOTE Confidence: 0.97470987  
01:07:47.484 --> 01:07:49.089 Hi. Thanks for thanks for  
NOTE Confidence: 0.97470987  
01:07:49.089 --> 01:07:50.869 joining the call and, for,  
NOTE Confidence: 0.83664477  
01:07:51.890 --> 01:07:53.490 dialing in dialing in. Like  
NOTE Confidence: 0.83664477  
01:07:53.490 --> 01:07:54.530 to share Let's share with  
NOTE Confidence: 0.83664477  
01:07:54.530 --> 01:07:55.030 us  
NOTE Confidence: 0.8141272  
01:07:55.390 --> 01:07:55.890 a  
NOTE Confidence: 0.97761756  
01:07:56.250 --> 01:07:56.750 little  
NOTE Confidence: 0.664279  
01:07:57.109 --> 01:07:57.609 bit.  
NOTE Confidence: 0.9529146  
01:07:57.970 --> 01:07:59.510 Yeah. Am am I audible?  
NOTE Confidence: 0.97222936

01:08:01.315 --> 01:08:02.355 Yeah. It's a little bit  
NOTE Confidence: 0.97222936

01:08:02.355 --> 01:08:04.295 faint, but, maybe you could  
NOTE Confidence: 0.7283297

01:08:04.835 --> 01:08:06.375 Hey. Into the mic, please.  
NOTE Confidence: 0.9465224

01:08:07.395 --> 01:08:08.755 Yeah. I am sorry for  
NOTE Confidence: 0.9465224

01:08:08.755 --> 01:08:08.995 that,  
NOTE Confidence: 0.93165743

01:08:10.355 --> 01:08:12.195 for the voice thing because  
NOTE Confidence: 0.95157516

01:08:13.155 --> 01:08:14.595 one more. Hello. Am I  
NOTE Confidence: 0.95157516

01:08:14.595 --> 01:08:15.895 am I audible now?  
NOTE Confidence: 0.94797224

01:08:16.880 --> 01:08:17.920 Yeah. Please go ahead. It'll  
NOTE Confidence: 0.94797224

01:08:17.920 --> 01:08:18.880 be it'll be great to  
NOTE Confidence: 0.94797224

01:08:18.880 --> 01:08:20.340 hear your, journey,  
NOTE Confidence: 0.99958545

01:08:20.719 --> 01:08:21.780 through this entire  
NOTE Confidence: 0.5881271

01:08:24.479 --> 01:08:25.300 Okay. Process.  
NOTE Confidence: 0.88987

01:08:26.079 --> 01:08:27.599 I I I'm sorry. I'm  
NOTE Confidence: 0.88987

01:08:27.599 --> 01:08:29.619 sorry about my voice. So  
NOTE Confidence: 0.9637112

01:08:30.195 --> 01:08:32.195 hello, everyone. I'm Deepika Karki.

NOTE Confidence: 0.9637112  
01:08:32.195 --> 01:08:32.935 I'm currently  
NOTE Confidence: 0.9777539  
01:08:33.554 --> 01:08:35.314 a research fellow at Mayo  
NOTE Confidence: 0.9777539  
01:08:35.314 --> 01:08:35.814 Clinic,  
NOTE Confidence: 0.9788977  
01:08:36.275 --> 01:08:37.574 Jacksonville, Florida.  
NOTE Confidence: 0.9970282  
01:08:38.354 --> 01:08:39.474 And as of today, I  
NOTE Confidence: 0.9970282  
01:08:39.474 --> 01:08:41.255 am four years cancer free.  
NOTE Confidence: 0.9921929  
01:08:41.635 --> 01:08:43.494 I was diagnosed with esophageal  
NOTE Confidence: 0.9921929  
01:08:43.715 --> 01:08:44.215 cancer  
NOTE Confidence: 0.9511399  
01:08:44.755 --> 01:08:45.689 when I was,  
NOTE Confidence: 0.99655896  
01:08:46.410 --> 01:08:47.710 twenty five years old,  
NOTE Confidence: 0.9586689  
01:08:48.090 --> 01:08:49.390 which is four years ago,  
NOTE Confidence: 0.9985895  
01:08:50.090 --> 01:08:51.370 and I was diagnosed on  
NOTE Confidence: 0.9985895  
01:08:51.370 --> 01:08:52.989 the in the initial stages.  
NOTE Confidence: 0.99038595  
01:08:54.650 --> 01:08:56.750 It was a squamous cancer,  
NOTE Confidence: 0.99038595  
01:08:56.810 --> 01:08:58.489 and it was it was  
NOTE Confidence: 0.99038595

01:08:58.489 --> 01:09:00.410 located thirty eight centimeters from

NOTE Confidence: 0.99038595

01:09:00.410 --> 01:09:01.070 the incisors.

NOTE Confidence: 0.9853849

01:09:02.075 --> 01:09:04.075 It was fifteen centimeters long,

NOTE Confidence: 0.9853849

01:09:04.075 --> 01:09:06.015 and it was two millimeters

NOTE Confidence: 0.9853849

01:09:06.314 --> 01:09:06.814 thickness.

NOTE Confidence: 0.99793166

01:09:07.435 --> 01:09:08.955 So I had multiple rounds

NOTE Confidence: 0.99793166

01:09:08.955 --> 01:09:09.695 of chemotherapy,

NOTE Confidence: 0.9992971

01:09:10.875 --> 01:09:11.375 radiotherapy

NOTE Confidence: 0.91093135

01:09:11.835 --> 01:09:13.435 followed by resection of my

NOTE Confidence: 0.91093135

01:09:13.435 --> 01:09:13.935 esophagus.

NOTE Confidence: 0.99849

01:09:14.875 --> 01:09:15.375 And

NOTE Confidence: 0.9906889

01:09:15.900 --> 01:09:16.640 post resection,

NOTE Confidence: 0.9966159

01:09:17.740 --> 01:09:19.260 one of the complications that

NOTE Confidence: 0.9966159

01:09:19.260 --> 01:09:20.479 I'm facing is

NOTE Confidence: 0.9798711

01:09:20.860 --> 01:09:22.460 the paralysis of my right

NOTE Confidence: 0.9798711

01:09:22.460 --> 01:09:24.620 vocal cord. Hence, my voice

NOTE Confidence: 0.9798711

01:09:24.620 --> 01:09:26.540 is very hoarse, and I'm

NOTE Confidence: 0.9798711

01:09:26.540 --> 01:09:27.600 sorry for that.

NOTE Confidence: 0.98363125

01:09:28.155 --> 01:09:29.195 But, yeah, it was a

NOTE Confidence: 0.98363125

01:09:29.195 --> 01:09:30.954 great talk, and, you know,

NOTE Confidence: 0.98363125

01:09:30.954 --> 01:09:32.155 it's really nice to see

NOTE Confidence: 0.98363125

01:09:32.155 --> 01:09:32.895 all the

NOTE Confidence: 0.9990439

01:09:33.354 --> 01:09:35.195 developments that has been happening

NOTE Confidence: 0.9990439

01:09:35.195 --> 01:09:36.094 in this field.

NOTE Confidence: 0.9380082

01:09:36.715 --> 01:09:38.415 I'm from Nepal originally,

NOTE Confidence: 0.98141134

01:09:39.195 --> 01:09:40.795 so all my treatment was

NOTE Confidence: 0.98141134

01:09:40.795 --> 01:09:42.554 done there, and it does

NOTE Confidence: 0.98141134

01:09:42.554 --> 01:09:44.850 not have as many resources

NOTE Confidence: 0.85564226

01:09:45.150 --> 01:09:46.990 as that was stocked in

NOTE Confidence: 0.85564226

01:09:46.990 --> 01:09:47.490 this

NOTE Confidence: 0.98696315

01:09:47.870 --> 01:09:50.450 amazing webinar today. But, yeah,

NOTE Confidence: 0.98696315

01:09:50.510 --> 01:09:52.350 just wanted to share it  
NOTE Confidence: 0.98696315

01:09:52.350 --> 01:09:53.410 with all of you.  
NOTE Confidence: 0.91218054

01:09:56.265 --> 01:09:58.025 Thanks, Deepika. It's it's really  
NOTE Confidence: 0.91218054

01:09:58.025 --> 01:09:59.625 great to have, a success  
NOTE Confidence: 0.91218054

01:09:59.625 --> 01:10:00.745 story and it's very difficult  
NOTE Confidence: 0.91218054

01:10:00.745 --> 01:10:02.905 to, treat tumor type, and,  
NOTE Confidence: 0.99041593

01:10:03.225 --> 01:10:04.844 it's great to see you,  
NOTE Confidence: 0.95091975

01:10:06.344 --> 01:10:07.545 talk so proudly about your  
NOTE Confidence: 0.95091975

01:10:07.545 --> 01:10:08.905 illness and share so greatly  
NOTE Confidence: 0.95091975

01:10:08.905 --> 01:10:09.945 about the journey that you've  
NOTE Confidence: 0.95091975

01:10:09.945 --> 01:10:10.685 gone through.  
NOTE Confidence: 0.9967039

01:10:11.280 --> 01:10:12.560 Yeah. So a few points,  
NOTE Confidence: 0.9967039

01:10:12.880 --> 01:10:14.080 that I wanted to talk  
NOTE Confidence: 0.9967039

01:10:14.080 --> 01:10:15.540 about after listening to  
NOTE Confidence: 0.95514804

01:10:15.920 --> 01:10:17.280 all the wonderful speakers was  
NOTE Confidence: 0.95514804

01:10:17.280 --> 01:10:18.880 that, we didn't talk a

NOTE Confidence: 0.95514804  
01:10:18.880 --> 01:10:20.660 lot about radiation pneumonitis,  
NOTE Confidence: 0.9965068  
01:10:21.439 --> 01:10:22.800 and that's something that I  
NOTE Confidence: 0.9965068  
01:10:22.800 --> 01:10:23.540 live with.  
NOTE Confidence: 0.9711579  
01:10:23.920 --> 01:10:25.635 And, you know, and, also,  
NOTE Confidence: 0.9711579  
01:10:25.635 --> 01:10:26.994 currently, I'm working on this  
NOTE Confidence: 0.9711579  
01:10:26.994 --> 01:10:28.114 project that is kind of  
NOTE Confidence: 0.9711579  
01:10:28.114 --> 01:10:29.175 looking at the  
NOTE Confidence: 0.98425007  
01:10:29.554 --> 01:10:31.255 cognitive function in patients,  
NOTE Confidence: 0.95605105  
01:10:32.275 --> 01:10:33.155 who are die who are  
NOTE Confidence: 0.95605105  
01:10:33.155 --> 01:10:34.835 diagnosed with cancer, you know,  
NOTE Confidence: 0.95605105  
01:10:34.835 --> 01:10:36.994 in their adolescent period at  
NOTE Confidence: 0.95605105  
01:10:36.994 --> 01:10:38.215 a very young age.  
NOTE Confidence: 0.998623  
01:10:38.830 --> 01:10:40.110 So I actually did a  
NOTE Confidence: 0.998623  
01:10:40.110 --> 01:10:41.410 case report on myself  
NOTE Confidence: 0.972751  
01:10:42.030 --> 01:10:42.910 that I'm more than happy  
NOTE Confidence: 0.972751

01:10:42.910 --> 01:10:43.949 to share with the team.  
NOTE Confidence: 0.972751

01:10:43.949 --> 01:10:45.229 And I feel like if  
NOTE Confidence: 0.972751

01:10:45.229 --> 01:10:46.770 we could have more trials  
NOTE Confidence: 0.99145985

01:10:47.469 --> 01:10:49.090 targeting on, like, young,  
NOTE Confidence: 0.99497867

01:10:49.469 --> 01:10:51.489 you know, young patient cohort  
NOTE Confidence: 0.99497867

01:10:51.550 --> 01:10:52.050 group  
NOTE Confidence: 0.89927614

01:10:52.429 --> 01:10:54.050 because we mainly talk about  
NOTE Confidence: 0.97441417

01:10:54.485 --> 01:10:56.165 therapies for elderly or, you  
NOTE Confidence: 0.97441417

01:10:56.165 --> 01:10:57.945 know, young pediatric patients.  
NOTE Confidence: 0.99847865

01:10:58.405 --> 01:10:59.205 But we don't have a  
NOTE Confidence: 0.99847865

01:10:59.205 --> 01:11:01.045 lot of trials that kind  
NOTE Confidence: 0.99847865

01:11:01.045 --> 01:11:02.405 of look at a major  
NOTE Confidence: 0.99847865

01:11:02.405 --> 01:11:04.085 chunk, you know, of that  
NOTE Confidence: 0.99847865

01:11:04.085 --> 01:11:04.585 particular  
NOTE Confidence: 0.9863863

01:11:04.885 --> 01:11:06.990 patient population, and we talked  
NOTE Confidence: 0.9863863

01:11:06.990 --> 01:11:08.850 about quality of life too.

NOTE Confidence: 0.9863863  
01:11:08.990 --> 01:11:10.270 So my voice is something  
NOTE Confidence: 0.9863863  
01:11:10.270 --> 01:11:11.150 that I kind of have  
NOTE Confidence: 0.9863863  
01:11:11.150 --> 01:11:12.850 to explain on an everyday  
NOTE Confidence: 0.9863863  
01:11:12.910 --> 01:11:13.410 basis.  
NOTE Confidence: 0.9610504  
01:11:14.350 --> 01:11:15.550 So that's that. And I  
NOTE Confidence: 0.9610504  
01:11:15.550 --> 01:11:16.370 was initially  
NOTE Confidence: 0.9782476  
01:11:16.990 --> 01:11:18.450 I had dumping syndrome,  
NOTE Confidence: 0.9478572  
01:11:18.865 --> 01:11:20.785 which was very bad. And  
NOTE Confidence: 0.9478572  
01:11:20.785 --> 01:11:22.945 even now, I sometimes have  
NOTE Confidence: 0.9478572  
01:11:22.945 --> 01:11:24.005 posterior hypertension  
NOTE Confidence: 0.98811483  
01:11:24.865 --> 01:11:25.685 and hypoglycemia.  
NOTE Confidence: 0.9957947  
01:11:26.785 --> 01:11:27.825 So those are some of  
NOTE Confidence: 0.9957947  
01:11:27.825 --> 01:11:29.445 the quality of life barriers  
NOTE Confidence: 0.9957947  
01:11:29.505 --> 01:11:30.165 for me.  
NOTE Confidence: 0.9639097  
01:11:30.800 --> 01:11:32.640 And, yeah, just something that  
NOTE Confidence: 0.9639097

01:11:32.640 --> 01:11:33.940 I wanted to share about  
NOTE Confidence: 0.9639097

01:11:34.080 --> 01:11:35.040 with the team, with the  
NOTE Confidence: 0.9639097

01:11:35.040 --> 01:11:36.740 prospects of maybe  
NOTE Confidence: 0.9950657

01:11:37.600 --> 01:11:39.700 maybe, like, more amazing projects  
NOTE Confidence: 0.9950657

01:11:39.760 --> 01:11:41.360 that might just come up  
NOTE Confidence: 0.9950657

01:11:41.360 --> 01:11:42.180 in the future.  
NOTE Confidence: 0.9545496

01:11:44.885 --> 01:11:45.925 Thanks, Deepika. I think you  
NOTE Confidence: 0.9545496

01:11:45.925 --> 01:11:46.965 bring up some very, very  
NOTE Confidence: 0.9545496

01:11:46.965 --> 01:11:47.845 good points, and maybe we  
NOTE Confidence: 0.9545496

01:11:47.845 --> 01:11:48.885 could use this as the  
NOTE Confidence: 0.9545496

01:11:48.885 --> 01:11:49.925 starting point for some of  
NOTE Confidence: 0.9545496

01:11:49.925 --> 01:11:51.285 the discussions that we wanted  
NOTE Confidence: 0.9545496

01:11:51.285 --> 01:11:52.405 to have. And I think  
NOTE Confidence: 0.9545496

01:11:52.405 --> 01:11:53.765 both doctor Balfa and doctor  
NOTE Confidence: 0.9545496

01:11:53.765 --> 01:11:54.585 Nus spoke,  
NOTE Confidence: 0.97837484

01:11:55.125 --> 01:11:56.585 about this point that

NOTE Confidence: 0.9992955  
01:11:56.920 --> 01:11:58.519 we need to correctly select  
NOTE Confidence: 0.9992955  
01:11:58.519 --> 01:11:59.900 the folks that may  
NOTE Confidence: 0.97686124  
01:12:00.280 --> 01:12:02.119 benefit from radiation and also  
NOTE Confidence: 0.97686124  
01:12:02.119 --> 01:12:03.559 be spared from radiation and  
NOTE Confidence: 0.97686124  
01:12:03.559 --> 01:12:05.179 similarly benefit from,  
NOTE Confidence: 0.97424245  
01:12:05.800 --> 01:12:07.159 surgery and be spared from  
NOTE Confidence: 0.97424245  
01:12:07.159 --> 01:12:08.599 surgery. And this brings up  
NOTE Confidence: 0.97424245  
01:12:08.599 --> 01:12:09.659 this point that,  
NOTE Confidence: 0.90806925  
01:12:10.215 --> 01:12:11.255 all all the patients that  
NOTE Confidence: 0.90806925  
01:12:11.255 --> 01:12:12.375 are treated at Yale are  
NOTE Confidence: 0.90806925  
01:12:12.375 --> 01:12:13.435 discussing a multidisciplinary  
NOTE Confidence: 0.85814667  
01:12:13.814 --> 01:12:15.354 tumor board. Very often,  
NOTE Confidence: 0.9626075  
01:12:15.814 --> 01:12:16.614 the four of us are  
NOTE Confidence: 0.9626075  
01:12:16.614 --> 01:12:18.135 on those tumor boards discussing  
NOTE Confidence: 0.9626075  
01:12:18.135 --> 01:12:19.094 who would be the right  
NOTE Confidence: 0.9626075

01:12:19.094 --> 01:12:20.295 patients to get the right  
NOTE Confidence: 0.9626075

01:12:20.295 --> 01:12:21.114 sort of treatments.  
NOTE Confidence: 0.99251395

01:12:21.574 --> 01:12:22.074 And,  
NOTE Confidence: 0.99362403

01:12:22.455 --> 01:12:23.655 we are reaching a point  
NOTE Confidence: 0.99362403

01:12:23.655 --> 01:12:24.215 where we are,  
NOTE Confidence: 0.9618455

01:12:25.620 --> 01:12:27.639 getting to a more personalized  
NOTE Confidence: 0.9618455

01:12:27.699 --> 01:12:28.600 sort of treatment  
NOTE Confidence: 0.96224326

01:12:28.979 --> 01:12:30.659 using biomarkers and other sort  
NOTE Confidence: 0.96224326

01:12:30.659 --> 01:12:32.260 of strategies to decide on  
NOTE Confidence: 0.96224326

01:12:32.260 --> 01:12:33.800 which patients should be benefiting  
NOTE Confidence: 0.9711886

01:12:34.179 --> 01:12:36.020 from which aspects of the  
NOTE Confidence: 0.9711886

01:12:36.020 --> 01:12:37.300 various therapies that we have  
NOTE Confidence: 0.9711886

01:12:37.300 --> 01:12:37.800 available.  
NOTE Confidence: 0.95985633

01:12:38.595 --> 01:12:39.315 But maybe it would be  
NOTE Confidence: 0.95985633

01:12:39.315 --> 01:12:40.755 nice to hear from, doctor  
NOTE Confidence: 0.95985633

01:12:40.755 --> 01:12:41.715 Du and doctor Boffa a

NOTE Confidence: 0.95985633  
01:12:41.715 --> 01:12:43.075 little bit on the the  
NOTE Confidence: 0.95985633  
01:12:43.075 --> 01:12:44.195 thoughts that we go through  
NOTE Confidence: 0.95985633  
01:12:44.195 --> 01:12:46.115 when we decide on these,  
NOTE Confidence: 0.9936233  
01:12:46.835 --> 01:12:48.355 cases on whether we should  
NOTE Confidence: 0.9936233  
01:12:48.355 --> 01:12:49.955 be offering radiation as well  
NOTE Confidence: 0.9936233  
01:12:49.955 --> 01:12:51.095 as offering surgery.  
NOTE Confidence: 0.99611425  
01:12:54.420 --> 01:12:54.920 Sure.  
NOTE Confidence: 0.9910341  
01:12:55.380 --> 01:12:57.139 You know, Deepika, thank you  
NOTE Confidence: 0.9910341  
01:12:57.139 --> 01:12:58.520 for sharing your  
NOTE Confidence: 0.9619288  
01:12:59.619 --> 01:13:01.460 your cancer journey. And it  
NOTE Confidence: 0.9619288  
01:13:01.699 --> 01:13:02.840 you know, I think that  
NOTE Confidence: 0.9619288  
01:13:03.059 --> 01:13:05.724 it's important that overall survival  
NOTE Confidence: 0.9619288  
01:13:05.784 --> 01:13:06.604 is not,  
NOTE Confidence: 0.99990094  
01:13:07.545 --> 01:13:08.045 everything  
NOTE Confidence: 0.93973285  
01:13:08.425 --> 01:13:10.264 and that that we really  
NOTE Confidence: 0.93973285

01:13:10.264 --> 01:13:11.645 have to look at,  
NOTE Confidence: 0.9375098

01:13:12.425 --> 01:13:14.045 quality of life. And,  
NOTE Confidence: 0.98449373

01:13:14.665 --> 01:13:16.204 I think that the  
NOTE Confidence: 0.9958439

01:13:16.880 --> 01:13:18.080 one of the things that  
NOTE Confidence: 0.9958439

01:13:18.080 --> 01:13:19.200 that I I do think  
NOTE Confidence: 0.9958439

01:13:19.200 --> 01:13:20.640 we do really well here  
NOTE Confidence: 0.9958439

01:13:20.640 --> 01:13:22.340 is when things don't go  
NOTE Confidence: 0.9983423

01:13:22.640 --> 01:13:24.240 the way that we would  
NOTE Confidence: 0.9983423

01:13:24.240 --> 01:13:25.380 love them to go,  
NOTE Confidence: 0.9934229

01:13:26.160 --> 01:13:27.140 to, you know,  
NOTE Confidence: 0.99983054

01:13:27.760 --> 01:13:29.460 have ways to mitigate  
NOTE Confidence: 0.9784275

01:13:30.365 --> 01:13:32.545 complications of treatment. And so,  
NOTE Confidence: 0.9869952

01:13:33.405 --> 01:13:34.925 whether it's a recurrent nerve  
NOTE Confidence: 0.9869952

01:13:34.925 --> 01:13:36.145 issue and medializing  
NOTE Confidence: 0.9139715

01:13:36.525 --> 01:13:37.505 cords or,  
NOTE Confidence: 0.9836427

01:13:38.285 --> 01:13:39.165 you know, having, like, a

NOTE Confidence: 0.9836427  
01:13:39.165 --> 01:13:41.185 world class ENT team,  
NOTE Confidence: 0.7552013  
01:13:42.925 --> 01:13:43.425 or,  
NOTE Confidence: 0.94898754  
01:13:44.285 --> 01:13:46.020 really a great pulmonary team.  
NOTE Confidence: 0.94898754  
01:13:46.020 --> 01:13:47.300 But but I think your  
NOTE Confidence: 0.94898754  
01:13:47.300 --> 01:13:48.739 your points are are really  
NOTE Confidence: 0.94898754  
01:13:48.739 --> 01:13:50.340 well taken. And and I,  
NOTE Confidence: 0.94898754  
01:13:50.340 --> 01:13:51.159 you know, I  
NOTE Confidence: 0.9808472  
01:13:51.460 --> 01:13:52.840 I I think I never  
NOTE Confidence: 0.9300961  
01:13:53.300 --> 01:13:54.739 ever talk anybody into an  
NOTE Confidence: 0.9300961  
01:13:54.739 --> 01:13:55.239 esophagectomy  
NOTE Confidence: 0.98943883  
01:13:55.619 --> 01:13:56.820 because it really is a  
NOTE Confidence: 0.98943883  
01:13:56.820 --> 01:13:58.199 trade off. It's an investment.  
NOTE Confidence: 0.965471  
01:13:58.945 --> 01:14:00.145 It's and I'm sure you  
NOTE Confidence: 0.965471  
01:14:00.145 --> 01:14:01.265 could attest. It's a it's  
NOTE Confidence: 0.965471  
01:14:01.265 --> 01:14:03.205 a it's a tremendous recovery,  
NOTE Confidence: 0.9987316

01:14:04.545 --> 01:14:05.985 and that trade off has  
NOTE Confidence: 0.9987316

01:14:05.985 --> 01:14:06.885 to be meaningful.  
NOTE Confidence: 0.9285773

01:14:07.505 --> 01:14:09.765 The potential gains in survival  
NOTE Confidence: 0.9285773

01:14:09.985 --> 01:14:10.800 have to be,  
NOTE Confidence: 0.9601652

01:14:11.439 --> 01:14:12.880 meaningful. And and this is  
NOTE Confidence: 0.9601652

01:14:12.880 --> 01:14:14.479 a you know, I've had  
NOTE Confidence: 0.9601652

01:14:14.479 --> 01:14:16.239 several patients in their late  
NOTE Confidence: 0.9601652

01:14:16.239 --> 01:14:16.739 twenties,  
NOTE Confidence: 0.975209

01:14:18.079 --> 01:14:18.579 and,  
NOTE Confidence: 0.9764377

01:14:19.040 --> 01:14:19.920 but but a lot of  
NOTE Confidence: 0.9764377

01:14:19.920 --> 01:14:21.599 our patients are in their  
NOTE Confidence: 0.9764377

01:14:21.599 --> 01:14:23.199 eighties and are facing this.  
NOTE Confidence: 0.9764377

01:14:23.199 --> 01:14:24.559 So you have both ends  
NOTE Confidence: 0.9764377

01:14:24.559 --> 01:14:25.920 of the spectrum and trying  
NOTE Confidence: 0.9764377

01:14:25.920 --> 01:14:26.579 to really  
NOTE Confidence: 0.9998686

01:14:27.255 --> 01:14:28.235 be transparent

NOTE Confidence: 0.9998349  
01:14:28.614 --> 01:14:29.114 about  
NOTE Confidence: 0.99172115  
01:14:29.814 --> 01:14:31.034 what is the potential,  
NOTE Confidence: 0.99988556  
01:14:31.895 --> 01:14:32.554 to gain  
NOTE Confidence: 0.93710667  
01:14:33.175 --> 01:14:33.655 from,  
NOTE Confidence: 0.9987374  
01:14:34.135 --> 01:14:36.074 each modality of treatment,  
NOTE Confidence: 0.9955937  
01:14:37.175 --> 01:14:37.675 including  
NOTE Confidence: 0.95339805  
01:14:38.054 --> 01:14:40.455 systemic treatment and radiation and  
NOTE Confidence: 0.95339805  
01:14:40.455 --> 01:14:40.955 surgery,  
NOTE Confidence: 0.9537811  
01:14:42.310 --> 01:14:43.930 and what is the likelihood  
NOTE Confidence: 0.9991208  
01:14:44.390 --> 01:14:46.469 of experiencing an event that  
NOTE Confidence: 0.9991208  
01:14:46.469 --> 01:14:46.969 degrades  
NOTE Confidence: 0.9735679  
01:14:47.270 --> 01:14:48.330 quality of life?  
NOTE Confidence: 0.98614335  
01:14:51.590 --> 01:14:53.510 Yeah. I'll I'll follow,  
NOTE Confidence: 0.8614213  
01:14:53.989 --> 01:14:55.610 doctor Boffa's radiation  
NOTE Confidence: 0.9989146  
01:14:56.545 --> 01:14:57.045 generally  
NOTE Confidence: 0.87581575

01:14:57.665 --> 01:14:59.345 follows surgery, but, the,  
NOTE Confidence: 0.9971585

01:15:00.145 --> 01:15:01.525 this is something where,  
NOTE Confidence: 0.932918

01:15:02.145 --> 01:15:03.125 miss Karki,  
NOTE Confidence: 0.94049364

01:15:03.585 --> 01:15:04.625 you know, this is really,  
NOTE Confidence: 0.94049364

01:15:05.104 --> 01:15:06.625 an amazing story, and thank  
NOTE Confidence: 0.94049364

01:15:06.625 --> 01:15:07.825 you so much for sharing.  
NOTE Confidence: 0.94049364

01:15:07.825 --> 01:15:08.325 Congratulations  
NOTE Confidence: 0.9952904

01:15:09.025 --> 01:15:10.485 on on your fourth anniversary  
NOTE Confidence: 0.93691206

01:15:11.025 --> 01:15:12.610 of of of being cancer  
NOTE Confidence: 0.93691206

01:15:12.610 --> 01:15:13.110 free.  
NOTE Confidence: 0.8929612

01:15:13.650 --> 01:15:14.790 It's really amazing.  
NOTE Confidence: 0.9709115

01:15:15.410 --> 01:15:16.710 I I share,  
NOTE Confidence: 0.9754405

01:15:17.890 --> 01:15:18.850 a lot of what you  
NOTE Confidence: 0.9754405

01:15:18.850 --> 01:15:20.210 say where, you know, I  
NOTE Confidence: 0.9754405

01:15:20.370 --> 01:15:21.410 when I walk in and  
NOTE Confidence: 0.9754405

01:15:21.410 --> 01:15:23.570 talk to, patients in the

NOTE Confidence: 0.9754405  
01:15:23.570 --> 01:15:24.070 room,  
NOTE Confidence: 0.9619093  
01:15:25.465 --> 01:15:27.145 I I do try to  
NOTE Confidence: 0.9619093  
01:15:27.145 --> 01:15:27.645 really  
NOTE Confidence: 0.99927974  
01:15:27.945 --> 01:15:29.545 take into account and try  
NOTE Confidence: 0.99927974  
01:15:29.545 --> 01:15:31.225 to figure out what the  
NOTE Confidence: 0.99927974  
01:15:31.225 --> 01:15:32.685 right treatment is for them.  
NOTE Confidence: 0.9976883  
01:15:32.985 --> 01:15:34.925 Radiation is a difficult treatment.  
NOTE Confidence: 0.9976883  
01:15:34.985 --> 01:15:36.104 It's a it's a lengthy  
NOTE Confidence: 0.9976883  
01:15:36.104 --> 01:15:36.604 treatment.  
NOTE Confidence: 0.9609415  
01:15:37.145 --> 01:15:38.585 You know, there's a lot  
NOTE Confidence: 0.9609415  
01:15:38.585 --> 01:15:38.745 of,  
NOTE Confidence: 0.9920557  
01:15:40.460 --> 01:15:42.000 side effects that are associated  
NOTE Confidence: 0.9920557  
01:15:42.060 --> 01:15:43.760 with radiation to the esophagus.  
NOTE Confidence: 0.9157795  
01:15:44.620 --> 01:15:44.939 And,  
NOTE Confidence: 0.93140405  
01:15:45.500 --> 01:15:47.179 and and, and so it  
NOTE Confidence: 0.93140405

01:15:47.179 --> 01:15:48.939 really is not, the the  
NOTE Confidence: 0.93140405

01:15:48.939 --> 01:15:50.239 right treatment for everybody.  
NOTE Confidence: 0.9697584

01:15:50.860 --> 01:15:51.360 However,  
NOTE Confidence: 0.93518037

01:15:51.739 --> 01:15:53.515 you know, in overall, we  
NOTE Confidence: 0.93518037

01:15:53.515 --> 01:15:54.875 try to assemble a treatment  
NOTE Confidence: 0.93518037

01:15:54.875 --> 01:15:56.075 package that is,  
NOTE Confidence: 0.9893793

01:15:56.955 --> 01:15:58.575 that combines the best  
NOTE Confidence: 0.7817507

01:16:00.715 --> 01:16:02.095 chances of success  
NOTE Confidence: 0.9969849

01:16:03.275 --> 01:16:04.955 together with trying to figure  
NOTE Confidence: 0.9969849

01:16:04.955 --> 01:16:05.915 out what's best for the  
NOTE Confidence: 0.9969849

01:16:05.915 --> 01:16:07.375 patient's quality of life  
NOTE Confidence: 0.99732196

01:16:07.810 --> 01:16:08.550 going forward.  
NOTE Confidence: 0.9812358

01:16:09.490 --> 01:16:11.090 We need better treatments. That's  
NOTE Confidence: 0.9812358

01:16:11.090 --> 01:16:11.750 for sure.  
NOTE Confidence: 0.99609184

01:16:12.210 --> 01:16:13.810 So that's where the research  
NOTE Confidence: 0.99609184

01:16:13.810 --> 01:16:14.310 that,

NOTE Confidence: 0.92579395

01:16:14.689 --> 01:16:17.010 doctor Raghav is, Sundar is

NOTE Confidence: 0.92579395

01:16:17.010 --> 01:16:18.550 talking about are so important,

NOTE Confidence: 0.9652001

01:16:19.170 --> 01:16:20.870 novel novel therapies.

NOTE Confidence: 0.93995297

01:16:21.435 --> 01:16:22.735 You know, proton therapy,

NOTE Confidence: 0.9886974

01:16:23.035 --> 01:16:24.555 I'm really sorry to hear

NOTE Confidence: 0.9886974

01:16:24.555 --> 01:16:26.155 that your your lungs were

NOTE Confidence: 0.9886974

01:16:26.155 --> 01:16:27.775 impacted by the treatments.

NOTE Confidence: 0.99883807

01:16:28.314 --> 01:16:29.354 You know, I think that's

NOTE Confidence: 0.99883807

01:16:29.354 --> 01:16:31.595 a big advantage of newer

NOTE Confidence: 0.99883807

01:16:31.595 --> 01:16:32.095 radiation

NOTE Confidence: 0.94718647

01:16:32.795 --> 01:16:35.215 therapies like proton therapy, which,

NOTE Confidence: 0.94718647

01:16:35.490 --> 01:16:37.189 you know, patients don't have

NOTE Confidence: 0.95805955

01:16:38.130 --> 01:16:39.729 may have only limited access

NOTE Confidence: 0.95805955

01:16:39.729 --> 01:16:41.010 to. You know, protons are

NOTE Confidence: 0.95805955

01:16:41.010 --> 01:16:41.750 not everywhere.

NOTE Confidence: 0.9488009

01:16:42.930 --> 01:16:43.729 And but,  
NOTE Confidence: 0.9438608

01:16:44.210 --> 01:16:46.210 but, has been demonstrated really  
NOTE Confidence: 0.9438608

01:16:46.210 --> 01:16:48.210 to reduce the dose to  
NOTE Confidence: 0.9438608

01:16:48.210 --> 01:16:49.330 the to the lungs and  
NOTE Confidence: 0.9438608

01:16:49.330 --> 01:16:50.530 the heart as as I  
NOTE Confidence: 0.9438608

01:16:50.530 --> 01:16:51.030 was  
NOTE Confidence: 0.99673533

01:16:51.465 --> 01:16:52.285 showing earlier.  
NOTE Confidence: 0.8742898

01:16:53.305 --> 01:16:53.545 But,  
NOTE Confidence: 0.94864064

01:16:54.745 --> 01:16:56.104 that being said, I'm so  
NOTE Confidence: 0.94864064

01:16:56.104 --> 01:16:57.165 glad that you're  
NOTE Confidence: 0.9175957

01:16:58.425 --> 01:17:00.905 doing well after treatment and,  
NOTE Confidence: 0.9229301

01:17:01.385 --> 01:17:03.385 you know, and and at  
NOTE Confidence: 0.9229301

01:17:03.385 --> 01:17:04.685 a at a great place  
NOTE Confidence: 0.83831364

01:17:05.385 --> 01:17:06.205 down in Florida,  
NOTE Confidence: 0.99147904

01:17:06.860 --> 01:17:08.860 you know, pursuing pursuing things  
NOTE Confidence: 0.99147904

01:17:08.860 --> 01:17:10.240 that are important to you.

NOTE Confidence: 0.99147904

01:17:10.460 --> 01:17:11.520 Thank you for sharing.

NOTE Confidence: 0.9955519

01:17:13.180 --> 01:17:13.680 Thanks,

NOTE Confidence: 0.93681914

01:17:14.140 --> 01:17:15.900 doctor Du. I I have

NOTE Confidence: 0.93681914

01:17:15.900 --> 01:17:17.580 a question to doctor Gibson

NOTE Confidence: 0.93681914

01:17:17.580 --> 01:17:19.260 as well as to, Deepika

NOTE Confidence: 0.93681914

01:17:19.260 --> 01:17:19.760 because,

NOTE Confidence: 0.97218275

01:17:21.375 --> 01:17:23.454 if, Deepika, you shared your

NOTE Confidence: 0.97218275

01:17:23.454 --> 01:17:24.735 your your case report with

NOTE Confidence: 0.97218275

01:17:24.735 --> 01:17:25.854 us, and you actually achieved

NOTE Confidence: 0.97218275

01:17:25.854 --> 01:17:27.635 a pathological complete response.

NOTE Confidence: 0.9834098

01:17:28.175 --> 01:17:30.275 So my question is,

NOTE Confidence: 0.89560384

01:17:31.775 --> 01:17:33.554 to to Deepika will be

NOTE Confidence: 0.96091133

01:17:34.400 --> 01:17:35.920 at that point where you

NOTE Confidence: 0.96091133

01:17:35.920 --> 01:17:37.139 had to make the judgment

NOTE Confidence: 0.96091133

01:17:37.280 --> 01:17:38.639 call, you would have been

NOTE Confidence: 0.96091133

01:17:38.639 --> 01:17:41.119 peri clinical complete response. And

NOTE Confidence: 0.96091133

01:17:41.119 --> 01:17:42.719 so the decision to still

NOTE Confidence: 0.96091133

01:17:42.719 --> 01:17:44.079 go ahead with surgery to

NOTE Confidence: 0.96091133

01:17:44.079 --> 01:17:45.199 be really sure that you

NOTE Confidence: 0.96091133

01:17:45.199 --> 01:17:46.739 have no disease left behind,

NOTE Confidence: 0.96091133

01:17:46.814 --> 01:17:47.935 I wanna hear your thoughts

NOTE Confidence: 0.96091133

01:17:47.935 --> 01:17:49.555 on the journey. And separately

NOTE Confidence: 0.97512054

01:17:49.935 --> 01:17:51.555 to, doctor Gibson is,

NOTE Confidence: 0.98671234

01:17:52.415 --> 01:17:54.175 how much of discordance do

NOTE Confidence: 0.98671234

01:17:54.175 --> 01:17:54.755 you see

NOTE Confidence: 0.9831087

01:17:55.055 --> 01:17:57.215 between CCR and PCR? Because

NOTE Confidence: 0.9831087

01:17:57.215 --> 01:17:58.255 that's always gonna be this

NOTE Confidence: 0.9831087

01:17:58.255 --> 01:17:59.535 judgment call when we try

NOTE Confidence: 0.9831087

01:17:59.535 --> 01:18:00.755 to head down this nonoperative

NOTE Confidence: 0.95553863

01:18:01.055 --> 01:18:02.275 route. And

NOTE Confidence: 0.99947375

01:18:03.600 --> 01:18:05.219 do we always need to

NOTE Confidence: 0.94302624  
01:18:05.840 --> 01:18:07.280 get PCR for us to  
NOTE Confidence: 0.94302624  
01:18:07.280 --> 01:18:08.560 be confident that we've gotten  
NOTE Confidence: 0.94302624  
01:18:08.560 --> 01:18:10.000 rid of everything, or is  
NOTE Confidence: 0.94302624  
01:18:10.000 --> 01:18:11.040 CCR good enough? I mean,  
NOTE Confidence: 0.94302624  
01:18:11.040 --> 01:18:12.080 doctor Buffa spoke a little  
NOTE Confidence: 0.94302624  
01:18:12.080 --> 01:18:12.800 bit about it, but I'd  
NOTE Confidence: 0.94302624  
01:18:12.800 --> 01:18:14.000 like to hear your thoughts  
NOTE Confidence: 0.94302624  
01:18:14.000 --> 01:18:15.280 on this. Maybe we'll hear  
NOTE Confidence: 0.94302624  
01:18:15.280 --> 01:18:16.560 doctor Gibson's thoughts as and  
NOTE Confidence: 0.94302624  
01:18:16.560 --> 01:18:18.645 then listen to what Deepika  
NOTE Confidence: 0.94302624  
01:18:18.645 --> 01:18:19.784 had to think about. Sure.  
NOTE Confidence: 0.9824874  
01:18:21.525 --> 01:18:22.885 Yeah. I also wanna say  
NOTE Confidence: 0.9824874  
01:18:22.885 --> 01:18:24.585 thank you to, to Deepika  
NOTE Confidence: 0.9824874  
01:18:24.645 --> 01:18:25.685 for sharing her story. I  
NOTE Confidence: 0.9824874  
01:18:25.685 --> 01:18:26.244 think it's,  
NOTE Confidence: 0.98450214

01:18:26.645 --> 01:18:28.324 it's incredible to hear these,  
NOTE Confidence: 0.975283

01:18:29.910 --> 01:18:31.850 these real life experiences,  
NOTE Confidence: 0.99594665

01:18:32.310 --> 01:18:33.910 and it really paints a  
NOTE Confidence: 0.99594665

01:18:33.910 --> 01:18:35.830 picture of of what people  
NOTE Confidence: 0.99594665

01:18:35.830 --> 01:18:36.489 go through  
NOTE Confidence: 0.9740044

01:18:36.870 --> 01:18:38.410 when I sign that report,  
NOTE Confidence: 0.99442774

01:18:38.949 --> 01:18:40.489 that there's, you know, cancer  
NOTE Confidence: 0.99442774

01:18:40.550 --> 01:18:41.050 found.  
NOTE Confidence: 0.9324438

01:18:42.710 --> 01:18:43.770 I think for  
NOTE Confidence: 0.95855963

01:18:44.835 --> 01:18:46.595 you know, I I  
NOTE Confidence: 0.9822429

01:18:47.235 --> 01:18:48.354 it's actually a really good  
NOTE Confidence: 0.9822429

01:18:48.354 --> 01:18:49.735 question, you know, clinical,  
NOTE Confidence: 0.988012

01:18:50.195 --> 01:18:52.195 complete clinical response versus complete  
NOTE Confidence: 0.988012

01:18:52.195 --> 01:18:53.335 pathological response.  
NOTE Confidence: 0.9983182

01:18:55.395 --> 01:18:56.135 I actually  
NOTE Confidence: 0.9927437

01:18:56.850 --> 01:18:58.530 don't have a study on

NOTE Confidence: 0.9927437  
01:18:58.530 --> 01:18:59.650 the off the top of  
NOTE Confidence: 0.9927437  
01:18:59.650 --> 01:19:01.489 my head that, sort of  
NOTE Confidence: 0.9927437  
01:19:01.489 --> 01:19:03.330 looked into that. We are  
NOTE Confidence: 0.9927437  
01:19:03.330 --> 01:19:05.489 not following that as a,  
NOTE Confidence: 0.9949651  
01:19:07.409 --> 01:19:08.150 as a  
NOTE Confidence: 0.6328612  
01:19:08.530 --> 01:19:09.030 metric,  
NOTE Confidence: 0.9159984  
01:19:09.445 --> 01:19:10.245 at Yale that I know  
NOTE Confidence: 0.9159984  
01:19:10.245 --> 01:19:11.845 of unless doctor Baffa has  
NOTE Confidence: 0.9159984  
01:19:11.845 --> 01:19:12.825 something that,  
NOTE Confidence: 0.982456  
01:19:13.765 --> 01:19:15.604 his group, is doing. So  
NOTE Confidence: 0.982456  
01:19:15.604 --> 01:19:16.645 I actually think it would  
NOTE Confidence: 0.982456  
01:19:16.645 --> 01:19:17.045 be,  
NOTE Confidence: 0.99952453  
01:19:17.525 --> 01:19:19.365 interesting to, you know, look  
NOTE Confidence: 0.99952453  
01:19:19.365 --> 01:19:20.485 into that a little bit  
NOTE Confidence: 0.99952453  
01:19:20.485 --> 01:19:20.985 more.  
NOTE Confidence: 0.9694653

01:19:23.900 --> 01:19:25.179 I I will I will  
NOTE Confidence: 0.9694653

01:19:25.179 --> 01:19:27.420 say that complete pathological response  
NOTE Confidence: 0.9694653

01:19:27.420 --> 01:19:28.560 is not a simple,  
NOTE Confidence: 0.9804735

01:19:30.860 --> 01:19:32.239 concept. I think,  
NOTE Confidence: 0.98827255

01:19:33.179 --> 01:19:34.939 I would encourage anybody who  
NOTE Confidence: 0.98827255

01:19:34.939 --> 01:19:36.880 reads papers that evaluate that  
NOTE Confidence: 0.98827255

01:19:37.100 --> 01:19:38.800 to understand how exactly  
NOTE Confidence: 0.9951357

01:19:39.795 --> 01:19:40.535 the esophagus  
NOTE Confidence: 0.9684067

01:19:41.155 --> 01:19:42.375 resections were,  
NOTE Confidence: 0.9958285

01:19:42.835 --> 01:19:43.335 examined.  
NOTE Confidence: 0.950832

01:19:43.955 --> 01:19:46.114 And when we examine post  
NOTE Confidence: 0.950832

01:19:46.114 --> 01:19:47.175 treatment esophagectomy  
NOTE Confidence: 0.99701583

01:19:47.475 --> 01:19:47.975 specimen,  
NOTE Confidence: 0.9844911

01:19:48.675 --> 01:19:50.035 we have a protocol where  
NOTE Confidence: 0.9844911

01:19:50.035 --> 01:19:51.875 we examine the entire tumor  
NOTE Confidence: 0.9844911

01:19:51.875 --> 01:19:52.775 bed histologically,

NOTE Confidence: 0.98966765  
01:19:54.100 --> 01:19:55.699 and that can sometimes be  
NOTE Confidence: 0.98966765  
01:19:55.699 --> 01:19:56.979 really difficult to tell. So  
NOTE Confidence: 0.98966765  
01:19:56.979 --> 01:19:58.180 we end up submitting, you  
NOTE Confidence: 0.98966765  
01:19:58.180 --> 01:19:59.699 know, the entire area where  
NOTE Confidence: 0.98966765  
01:19:59.699 --> 01:20:01.160 the tumor might have been,  
NOTE Confidence: 0.9956907  
01:20:01.780 --> 01:20:02.920 if we can't identify,  
NOTE Confidence: 0.9911916  
01:20:03.699 --> 01:20:04.820 a a good tumor bed.  
NOTE Confidence: 0.9911916  
01:20:04.820 --> 01:20:06.280 So we're, you know, doing  
NOTE Confidence: 0.9911916  
01:20:06.340 --> 01:20:07.400 a complete assessment  
NOTE Confidence: 0.9542267  
01:20:07.780 --> 01:20:08.260 of that,  
NOTE Confidence: 0.9901445  
01:20:09.785 --> 01:20:11.165 of the tumor site.  
NOTE Confidence: 0.9675174  
01:20:11.865 --> 01:20:13.785 And I would say there's  
NOTE Confidence: 0.9675174  
01:20:13.785 --> 01:20:14.285 not,  
NOTE Confidence: 0.9882247  
01:20:16.985 --> 01:20:18.345 you know, depending on where  
NOTE Confidence: 0.9882247  
01:20:18.345 --> 01:20:19.005 you practice,  
NOTE Confidence: 0.9406811

01:20:19.305 --> 01:20:20.365 that might be different.  
NOTE Confidence: 0.99730873

01:20:20.905 --> 01:20:22.205 There might be different approaches  
NOTE Confidence: 0.99730873

01:20:22.345 --> 01:20:24.670 of how pathology is assessed.  
NOTE Confidence: 0.9970091

01:20:25.050 --> 01:20:26.110 And so I think  
NOTE Confidence: 0.9958202

01:20:26.969 --> 01:20:28.010 before you sort of look  
NOTE Confidence: 0.9958202

01:20:28.010 --> 01:20:28.810 at a paper and look  
NOTE Confidence: 0.9958202

01:20:28.810 --> 01:20:30.650 at the pathologic complete response  
NOTE Confidence: 0.9958202

01:20:30.650 --> 01:20:31.949 data, understanding  
NOTE Confidence: 0.9973249

01:20:32.250 --> 01:20:33.530 what the protocol was to  
NOTE Confidence: 0.9973249

01:20:33.530 --> 01:20:35.050 examine the esophagus is an  
NOTE Confidence: 0.9973249

01:20:35.050 --> 01:20:35.550 extremely  
NOTE Confidence: 0.895017

01:20:36.010 --> 01:20:37.229 important exercise,  
NOTE Confidence: 0.9992131

01:20:38.195 --> 01:20:39.235 because if they did not  
NOTE Confidence: 0.9992131

01:20:39.235 --> 01:20:41.255 examine the entire tumor bed,  
NOTE Confidence: 0.9617583

01:20:43.235 --> 01:20:44.114 you know, they might have  
NOTE Confidence: 0.9617583

01:20:44.114 --> 01:20:45.314 missed that residual bit of

NOTE Confidence: 0.9617583

01:20:45.314 --> 01:20:46.835 cancer that was in there.

NOTE Confidence: 0.9617583

01:20:46.835 --> 01:20:48.034 And we see that. We

NOTE Confidence: 0.9617583

01:20:48.034 --> 01:20:48.994 see that. We we will

NOTE Confidence: 0.9617583

01:20:48.994 --> 01:20:50.434 submit an entire tumor bed,

NOTE Confidence: 0.9617583

01:20:50.434 --> 01:20:51.715 you know, let's say a

NOTE Confidence: 0.9617583

01:20:51.715 --> 01:20:53.580 three centimeter scar at, you

NOTE Confidence: 0.9617583

01:20:53.580 --> 01:20:55.119 know, above the g junction.

NOTE Confidence: 0.98672324

01:20:55.820 --> 01:20:57.340 We'll submit that, examine that

NOTE Confidence: 0.98672324

01:20:57.340 --> 01:20:58.780 in, you know, fifteen, twenty

NOTE Confidence: 0.98672324

01:20:58.780 --> 01:21:00.400 blocks, and there'll be cancer

NOTE Confidence: 0.98672324

01:21:00.460 --> 01:21:01.260 on one or two of

NOTE Confidence: 0.98672324

01:21:01.260 --> 01:21:01.760 them

NOTE Confidence: 0.97987664

01:21:02.540 --> 01:21:03.659 and not the rest. And

NOTE Confidence: 0.97987664

01:21:03.659 --> 01:21:05.099 so you really could miss

NOTE Confidence: 0.97987664

01:21:05.099 --> 01:21:05.900 it if you're not doing

NOTE Confidence: 0.97987664

01:21:05.900 --> 01:21:07.215 a complete pathologic response. So  
NOTE Confidence: 0.97987664

01:21:07.215 --> 01:21:09.135 that's my one cautionary tale  
NOTE Confidence: 0.97987664

01:21:09.135 --> 01:21:09.955 about that  
NOTE Confidence: 0.9775854

01:21:10.335 --> 01:21:11.955 and data about that.  
NOTE Confidence: 0.97832614

01:21:12.335 --> 01:21:14.014 But, yeah, I I don't  
NOTE Confidence: 0.97832614

01:21:14.014 --> 01:21:15.054 I don't know the data  
NOTE Confidence: 0.97832614

01:21:15.054 --> 01:21:15.955 offhand comparing  
NOTE Confidence: 0.98546475

01:21:16.335 --> 01:21:18.494 the clinical versus pathological response.  
NOTE Confidence: 0.99913865

01:21:18.814 --> 01:21:19.854 So that's something I would  
NOTE Confidence: 0.99913865

01:21:19.854 --> 01:21:20.514 need to  
NOTE Confidence: 0.9834376

01:21:21.250 --> 01:21:22.210 look into a little bit  
NOTE Confidence: 0.9834376

01:21:22.210 --> 01:21:22.710 more.  
NOTE Confidence: 0.97195977

01:21:23.330 --> 01:21:24.130 And I don't know if  
NOTE Confidence: 0.97195977

01:21:24.130 --> 01:21:25.270 anybody else has,  
NOTE Confidence: 0.93105537

01:21:26.610 --> 01:21:27.810 insight into that. I bet  
NOTE Confidence: 0.93105537

01:21:27.889 --> 01:21:29.090 I'm sure Dan has some

NOTE Confidence: 0.93105537  
01:21:29.090 --> 01:21:30.369 insight or, Kevin, I see  
NOTE Confidence: 0.93105537  
01:21:30.369 --> 01:21:31.889 you unmuted as well. I  
NOTE Confidence: 0.93105537  
01:21:31.889 --> 01:21:32.929 think you can flip a  
NOTE Confidence: 0.93105537  
01:21:32.929 --> 01:21:33.429 coin  
NOTE Confidence: 0.7413661  
01:21:33.810 --> 01:21:35.750 with a a complete response,  
NOTE Confidence: 0.7413661  
01:21:35.889 --> 01:21:36.130 and,  
NOTE Confidence: 0.9709976  
01:21:37.145 --> 01:21:38.665 and that'll be about as  
NOTE Confidence: 0.9709976  
01:21:38.665 --> 01:21:39.545 good as any,  
NOTE Confidence: 0.8765298  
01:21:40.265 --> 01:21:40.765 anything.  
NOTE Confidence: 0.9789843  
01:21:41.705 --> 01:21:43.485 To Dan's point, I think  
NOTE Confidence: 0.9789843  
01:21:43.705 --> 01:21:45.945 we we absolutely need better  
NOTE Confidence: 0.9789843  
01:21:45.945 --> 01:21:47.005 ways of assessing,  
NOTE Confidence: 0.77982044  
01:21:48.265 --> 01:21:49.725 such as circulating,  
NOTE Confidence: 0.9425833  
01:21:50.344 --> 01:21:51.989 you know, blood test, tumor  
NOTE Confidence: 0.9425833  
01:21:51.989 --> 01:21:54.010 markers, or, you know, even  
NOTE Confidence: 0.9425833

01:21:54.309 --> 01:21:55.210 AI approaches.  
NOTE Confidence: 0.9962432

01:21:55.909 --> 01:21:57.269 That's really the the most  
NOTE Confidence: 0.9962432

01:21:57.269 --> 01:21:58.250 important question  
NOTE Confidence: 0.93655515

01:21:58.630 --> 01:21:59.449 with chemoradiation  
NOTE Confidence: 0.62604386

01:22:00.309 --> 01:22:00.789 and,  
NOTE Confidence: 0.9738174

01:22:01.269 --> 01:22:02.789 these days, I think, and  
NOTE Confidence: 0.9738174

01:22:02.789 --> 01:22:04.170 something which could really  
NOTE Confidence: 0.99618423

01:22:05.915 --> 01:22:06.415 revolutionize  
NOTE Confidence: 0.9951118

01:22:06.715 --> 01:22:07.915 the the field, I think,  
NOTE Confidence: 0.9951118

01:22:07.915 --> 01:22:09.275 and really improve our patient  
NOTE Confidence: 0.9951118

01:22:09.275 --> 01:22:09.775 care.  
NOTE Confidence: 0.9930099

01:22:11.354 --> 01:22:12.395 Yeah. I I agree with  
NOTE Confidence: 0.9930099

01:22:12.395 --> 01:22:14.315 that. It's it's about there's  
NOTE Confidence: 0.9930099

01:22:14.315 --> 01:22:16.315 about a fifty percent false  
NOTE Confidence: 0.9930099

01:22:16.315 --> 01:22:17.935 negative rate to the clinical  
NOTE Confidence: 0.9179543

01:22:18.235 --> 01:22:20.330 evaluation. That is really what

NOTE Confidence: 0.9179543  
01:22:20.390 --> 01:22:22.410 presaino showed. That's what,  
NOTE Confidence: 0.93091786  
01:22:23.430 --> 01:22:24.330 we'd found,  
NOTE Confidence: 0.9108674  
01:22:25.270 --> 01:22:25.770 when  
NOTE Confidence: 0.9723387  
01:22:26.070 --> 01:22:27.590 I was in Cleveland, and  
NOTE Confidence: 0.9723387  
01:22:27.590 --> 01:22:29.450 it's it's a pretty consistent,  
NOTE Confidence: 0.9821565  
01:22:30.229 --> 01:22:30.729 thing.  
NOTE Confidence: 0.9956912  
01:22:31.030 --> 01:22:32.070 But we know that not  
NOTE Confidence: 0.9956912  
01:22:32.070 --> 01:22:33.130 every pathologic  
NOTE Confidence: 0.9848079  
01:22:33.590 --> 01:22:35.325 complete responder is cured.  
NOTE Confidence: 0.99224997  
01:22:36.125 --> 01:22:37.245 So it's it's,  
NOTE Confidence: 0.8292417  
01:22:38.925 --> 01:22:39.985 but but the  
NOTE Confidence: 0.98055494  
01:22:40.445 --> 01:22:41.965 Joanna, that's a really interesting  
NOTE Confidence: 0.98055494  
01:22:41.965 --> 01:22:43.005 point that I didn't really  
NOTE Confidence: 0.98055494  
01:22:43.005 --> 01:22:44.225 think about is how,  
NOTE Confidence: 0.9653612  
01:22:45.645 --> 01:22:47.485 the processing does you know,  
NOTE Confidence: 0.9653612

01:22:47.485 --> 01:22:48.445 I you know, you're  
NOTE Confidence: 0.97405446

01:22:50.100 --> 01:22:51.300 nobody likes to look for  
NOTE Confidence: 0.97405446

01:22:51.300 --> 01:22:52.760 things they don't wanna find.  
NOTE Confidence: 0.9979857

01:22:53.060 --> 01:22:53.560 And,  
NOTE Confidence: 0.9917455

01:22:54.020 --> 01:22:55.139 you know, it it's,  
NOTE Confidence: 0.97376543

01:22:56.179 --> 01:22:57.460 it is interesting to know  
NOTE Confidence: 0.97376543

01:22:57.540 --> 01:22:59.139 understand the different processing. That  
NOTE Confidence: 0.97376543

01:22:59.139 --> 01:23:00.340 would be an interesting study  
NOTE Confidence: 0.97376543

01:23:00.340 --> 01:23:01.860 is to sort of look  
NOTE Confidence: 0.97376543

01:23:01.860 --> 01:23:03.800 at complete pathologic responders,  
NOTE Confidence: 0.9917289

01:23:04.955 --> 01:23:06.875 have different centers look at  
NOTE Confidence: 0.9917289

01:23:06.875 --> 01:23:07.995 the same things to see  
NOTE Confidence: 0.9917289

01:23:07.995 --> 01:23:09.675 if there's concordance in that.  
NOTE Confidence: 0.9917289

01:23:09.675 --> 01:23:10.875 But I think just looking  
NOTE Confidence: 0.9917289

01:23:10.875 --> 01:23:12.075 at the protocols and sort  
NOTE Confidence: 0.9917289

01:23:12.075 --> 01:23:13.595 of understanding how people are

NOTE Confidence: 0.9917289  
01:23:13.595 --> 01:23:14.095 assessing  
NOTE Confidence: 0.9276007  
01:23:14.475 --> 01:23:14.955 that,  
NOTE Confidence: 0.9563937  
01:23:15.995 --> 01:23:17.275 that point, I think, would  
NOTE Confidence: 0.9563937  
01:23:17.275 --> 01:23:18.575 be interesting. Yep.  
NOTE Confidence: 0.9951438  
01:23:21.939 --> 01:23:24.100 And just on that note,  
NOTE Confidence: 0.9951438  
01:23:24.100 --> 01:23:24.979 you can see that a  
NOTE Confidence: 0.9951438  
01:23:24.979 --> 01:23:26.260 new study is forming at  
NOTE Confidence: 0.9951438  
01:23:26.260 --> 01:23:27.159 the end of this  
NOTE Confidence: 0.65662575  
01:23:27.780 --> 01:23:28.280 with  
NOTE Confidence: 0.9292027  
01:23:28.820 --> 01:23:29.560 this group.  
NOTE Confidence: 0.9314238  
01:23:30.260 --> 01:23:31.060 But I I mean, I  
NOTE Confidence: 0.9314238  
01:23:31.060 --> 01:23:32.100 also want to highlight the  
NOTE Confidence: 0.9314238  
01:23:32.100 --> 01:23:33.405 fact that we are very,  
NOTE Confidence: 0.9314238  
01:23:33.405 --> 01:23:34.865 very dependent on the pathologist  
NOTE Confidence: 0.9314238  
01:23:35.085 --> 01:23:37.085 for our decision making. So  
NOTE Confidence: 0.9314238

01:23:37.085 --> 01:23:38.445 we're very grateful to having  
NOTE Confidence: 0.9314238

01:23:38.445 --> 01:23:39.885 a very strong and collaborative  
NOTE Confidence: 0.9314238

01:23:39.885 --> 01:23:41.645 pathology team at Yale that  
NOTE Confidence: 0.9314238

01:23:41.645 --> 01:23:42.525 helps us make a lot  
NOTE Confidence: 0.9314238

01:23:42.525 --> 01:23:43.825 of these decisions downstream.  
NOTE Confidence: 0.99357486

01:23:45.085 --> 01:23:46.604 Deepika, are you unmuted? Can  
NOTE Confidence: 0.99357486

01:23:46.604 --> 01:23:48.465 you share your thoughts on  
NOTE Confidence: 0.99357486

01:23:48.660 --> 01:23:49.400 going for  
NOTE Confidence: 0.8117706

01:23:49.860 --> 01:23:51.080 surgery? Hello?  
NOTE Confidence: 0.7811075

01:23:51.540 --> 01:23:52.740 Is he here? Yeah. Yeah.  
NOTE Confidence: 0.7811075

01:23:52.740 --> 01:23:53.240 I'm  
NOTE Confidence: 0.9960175

01:23:53.780 --> 01:23:54.900 so sorry. I always do  
NOTE Confidence: 0.9960175

01:23:54.900 --> 01:23:56.340 the voice test before I  
NOTE Confidence: 0.9960175

01:23:56.340 --> 01:23:56.840 speak.  
NOTE Confidence: 0.8988762

01:23:57.300 --> 01:23:58.500 So, yeah, as as for  
NOTE Confidence: 0.8988762

01:23:58.500 --> 01:23:59.540 me, it was like after

NOTE Confidence: 0.8988762  
01:23:59.540 --> 01:24:00.200 I finished  
NOTE Confidence: 0.9940662  
01:24:01.060 --> 01:24:02.740 my treatment with chemo and  
NOTE Confidence: 0.9940662  
01:24:02.740 --> 01:24:03.800 radio, my  
NOTE Confidence: 0.96387595  
01:24:04.445 --> 01:24:06.465 surgeon, he performed an endoscopy  
NOTE Confidence: 0.96387595  
01:24:06.525 --> 01:24:07.185 on me.  
NOTE Confidence: 0.9784242  
01:24:07.564 --> 01:24:08.765 And on that, he found  
NOTE Confidence: 0.9784242  
01:24:08.765 --> 01:24:09.425 a polyp.  
NOTE Confidence: 0.9960694  
01:24:09.885 --> 01:24:11.245 And I was actually, like,  
NOTE Confidence: 0.9960694  
01:24:11.245 --> 01:24:13.005 clinically well ever since my  
NOTE Confidence: 0.9960694  
01:24:13.005 --> 01:24:13.505 first  
NOTE Confidence: 0.9711915  
01:24:13.965 --> 01:24:15.485 dose, like, my first session  
NOTE Confidence: 0.9711915  
01:24:15.485 --> 01:24:17.085 of chemotherapy. So there was,  
NOTE Confidence: 0.9711915  
01:24:17.085 --> 01:24:18.800 like, never a question of  
NOTE Confidence: 0.9711915  
01:24:18.800 --> 01:24:20.500 not being a clinical responder.  
NOTE Confidence: 0.97486013  
01:24:21.280 --> 01:24:22.320 But when he found that  
NOTE Confidence: 0.97486013

01:24:22.320 --> 01:24:22.820 polypony  
NOTE Confidence: 0.994848

01:24:23.120 --> 01:24:24.180 follow-up endoscopy  
NOTE Confidence: 0.9674077

01:24:24.960 --> 01:24:26.560 and considering my age, like,  
NOTE Confidence: 0.9674077

01:24:26.560 --> 01:24:27.380 he kind of  
NOTE Confidence: 0.8309182

01:24:27.840 --> 01:24:29.460 counseled me and my family  
NOTE Confidence: 0.8309182

01:24:29.520 --> 01:24:30.320 for his of a check  
NOTE Confidence: 0.8309182

01:24:30.320 --> 01:24:31.140 to me. And,  
NOTE Confidence: 0.90590686

01:24:31.760 --> 01:24:32.880 yeah, that's I think how  
NOTE Confidence: 0.90590686

01:24:32.880 --> 01:24:34.675 I how I, like, cave  
NOTE Confidence: 0.90590686

01:24:34.675 --> 01:24:35.415 into it.  
NOTE Confidence: 0.992328

01:24:35.795 --> 01:24:36.915 And that being said, I  
NOTE Confidence: 0.992328

01:24:36.915 --> 01:24:38.515 think the initial months were  
NOTE Confidence: 0.992328

01:24:38.515 --> 01:24:40.295 definitely very hard because  
NOTE Confidence: 0.92669153

01:24:40.675 --> 01:24:42.215 I couldn't eat and,  
NOTE Confidence: 0.9784475

01:24:42.594 --> 01:24:43.715 you know, I had dumping  
NOTE Confidence: 0.9784475

01:24:43.715 --> 01:24:45.074 syndrome, and it was very

NOTE Confidence: 0.9784475  
01:24:45.074 --> 01:24:45.574 hard.  
NOTE Confidence: 0.9992325  
01:24:45.875 --> 01:24:47.210 But right now,  
NOTE Confidence: 0.9778263  
01:24:48.150 --> 01:24:49.430 like, years down the line,  
NOTE Confidence: 0.9778263  
01:24:49.430 --> 01:24:50.410 I'm able to  
NOTE Confidence: 0.90382373  
01:24:50.870 --> 01:24:52.489 have a full meal and  
NOTE Confidence: 0.90226316  
01:24:52.790 --> 01:24:53.770 I'm much better.  
NOTE Confidence: 0.9960389  
01:24:54.150 --> 01:24:55.670 And just the fact that  
NOTE Confidence: 0.9960389  
01:24:55.670 --> 01:24:57.290 my parents and my family,  
NOTE Confidence: 0.99771464  
01:24:58.405 --> 01:24:59.685 we're all kind of, you  
NOTE Confidence: 0.99771464  
01:24:59.685 --> 01:25:01.525 know, happy that the main  
NOTE Confidence: 0.99771464  
01:25:01.525 --> 01:25:02.025 source  
NOTE Confidence: 0.9834868  
01:25:02.405 --> 01:25:03.845 of where the lesion was  
NOTE Confidence: 0.9834868  
01:25:03.845 --> 01:25:05.225 is gone from my body.  
NOTE Confidence: 0.9983615  
01:25:05.604 --> 01:25:06.725 So I think that's one  
NOTE Confidence: 0.9983615  
01:25:06.725 --> 01:25:07.705 sense of, like,  
NOTE Confidence: 0.9700817

01:25:08.165 --> 01:25:09.365 relief that me and my  
NOTE Confidence: 0.9700817

01:25:09.365 --> 01:25:10.425 family have.  
NOTE Confidence: 0.96065885

01:25:10.890 --> 01:25:12.409 And my follow-up PET scans  
NOTE Confidence: 0.96065885

01:25:12.409 --> 01:25:14.090 have also come out all  
NOTE Confidence: 0.96065885

01:25:14.090 --> 01:25:14.590 clean.  
NOTE Confidence: 0.98735154

01:25:15.210 --> 01:25:16.650 So I guess that also  
NOTE Confidence: 0.98735154

01:25:16.650 --> 01:25:18.409 kind of helped me and  
NOTE Confidence: 0.98735154

01:25:18.409 --> 01:25:19.870 my family make that judgment  
NOTE Confidence: 0.9987877

01:25:20.489 --> 01:25:20.989 about  
NOTE Confidence: 0.870597

01:25:21.370 --> 01:25:22.810 to go or not with  
NOTE Confidence: 0.870597

01:25:22.810 --> 01:25:23.469 the suffragectomy.  
NOTE Confidence: 0.97846615

01:25:23.850 --> 01:25:25.290 So, yeah, I think that  
NOTE Confidence: 0.97846615

01:25:25.290 --> 01:25:26.110 really helped.  
NOTE Confidence: 0.9510446

01:25:27.225 --> 01:25:28.824 Thanks, Deepika. This is really  
NOTE Confidence: 0.9510446

01:25:28.824 --> 01:25:30.185 nice to hear your journey  
NOTE Confidence: 0.9510446

01:25:30.185 --> 01:25:31.385 and, glad to hear that

NOTE Confidence: 0.9510446  
01:25:31.385 --> 01:25:32.125 you recovered.  
NOTE Confidence: 0.9581813  
01:25:33.304 --> 01:25:34.585 I think part of the  
NOTE Confidence: 0.9581813  
01:25:34.585 --> 01:25:36.025 decision to do to operate  
NOTE Confidence: 0.9581813  
01:25:36.025 --> 01:25:37.225 would have also been that  
NOTE Confidence: 0.9581813  
01:25:37.225 --> 01:25:38.344 you were diagnosed at a  
NOTE Confidence: 0.9581813  
01:25:38.344 --> 01:25:39.145 very young age, and I  
NOTE Confidence: 0.9581813  
01:25:39.145 --> 01:25:40.364 think most people  
NOTE Confidence: 0.93285435  
01:25:41.040 --> 01:25:42.400 to to Gibson's point, most  
NOTE Confidence: 0.93285435  
01:25:42.400 --> 01:25:43.860 people wouldn't want to risk  
NOTE Confidence: 0.93285435  
01:25:44.000 --> 01:25:45.520 leaving any tumor behind. So  
NOTE Confidence: 0.93285435  
01:25:45.520 --> 01:25:46.260 that's great.  
NOTE Confidence: 0.9608191  
01:25:46.800 --> 01:25:47.520 I have a couple of  
NOTE Confidence: 0.9608191  
01:25:47.520 --> 01:25:48.560 questions on the chat. I  
NOTE Confidence: 0.9608191  
01:25:48.560 --> 01:25:50.000 think both I'll try and  
NOTE Confidence: 0.9608191  
01:25:50.000 --> 01:25:50.500 address.  
NOTE Confidence: 0.9850043

01:25:50.960 --> 01:25:52.400 So one question is the  
NOTE Confidence: 0.9850043

01:25:52.400 --> 01:25:53.805 question of looking at the  
NOTE Confidence: 0.9850043

01:25:53.805 --> 01:25:54.545 addition of trastuzumab  
NOTE Confidence: 0.929893

01:25:55.085 --> 01:25:56.864 with FLOT for HER2 positive,  
NOTE Confidence: 0.99709845

01:25:57.564 --> 01:25:58.064 adenocarcinoma.  
NOTE Confidence: 0.9698562

01:25:58.925 --> 01:26:00.045 So we actually have the  
NOTE Confidence: 0.9698562

01:26:00.045 --> 01:26:01.645 innovation trial that looked at  
NOTE Confidence: 0.9698562

01:26:01.645 --> 01:26:02.145 this,  
NOTE Confidence: 0.9146043

01:26:03.245 --> 01:26:04.844 with both trastuzumab as well  
NOTE Confidence: 0.9146043

01:26:04.844 --> 01:26:06.364 as pertuzumab, not with FLOT,  
NOTE Confidence: 0.9146043

01:26:06.364 --> 01:26:08.205 but with older chemotherapy regimens,  
NOTE Confidence: 0.9146043

01:26:08.205 --> 01:26:09.185 which was negative.  
NOTE Confidence: 0.953915

01:26:09.860 --> 01:26:11.079 And so that study,  
NOTE Confidence: 0.96535856

01:26:12.500 --> 01:26:14.020 didn't show any benefit in  
NOTE Confidence: 0.96535856

01:26:14.020 --> 01:26:15.219 the addition of HER2 in  
NOTE Confidence: 0.96535856

01:26:15.219 --> 01:26:17.079 the perioperative setting. And so

NOTE Confidence: 0.96535856

01:26:17.219 --> 01:26:18.739 we need to be careful

NOTE Confidence: 0.96535856

01:26:18.739 --> 01:26:20.340 about extrapolating data from the

NOTE Confidence: 0.96535856

01:26:20.340 --> 01:26:21.780 metastatic setting and moving it

NOTE Confidence: 0.96535856

01:26:21.780 --> 01:26:23.814 into the perioperative setting without

NOTE Confidence: 0.96535856

01:26:23.814 --> 01:26:25.575 having clinical trials support some

NOTE Confidence: 0.96535856

01:26:25.575 --> 01:26:26.395 of these data?

NOTE Confidence: 0.93928087

01:26:26.854 --> 01:26:28.215 The other question was any

NOTE Confidence: 0.93928087

01:26:28.215 --> 01:26:29.835 chance of improving on CROS?

NOTE Confidence: 0.9422726

01:26:30.935 --> 01:26:32.215 That part actually, the truth

NOTE Confidence: 0.9422726

01:26:32.215 --> 01:26:33.575 is, at least at Yale,

NOTE Confidence: 0.9422726

01:26:33.575 --> 01:26:34.935 we all firmly believe that

NOTE Confidence: 0.9422726

01:26:34.935 --> 01:26:36.295 CROS was not the best

NOTE Confidence: 0.9422726

01:26:36.295 --> 01:26:37.995 regimen from a chemo radiation

NOTE Confidence: 0.9422726

01:26:38.055 --> 01:26:38.555 perspective

NOTE Confidence: 0.7326939

01:26:38.935 --> 01:26:39.970 for adenocarcinomas,

NOTE Confidence: 0.89777315

01:26:41.229 --> 01:26:41.729 specifically  
NOTE Confidence: 0.9053665

01:26:42.110 --> 01:26:43.710 for squamous cell cancers is  
NOTE Confidence: 0.9053665

01:26:43.710 --> 01:26:44.670 a different story, and we  
NOTE Confidence: 0.9053665

01:26:44.670 --> 01:26:46.590 think carboxyl in combination with  
NOTE Confidence: 0.9053665

01:26:46.590 --> 01:26:48.210 radiation is beneficial.  
NOTE Confidence: 0.94337076

01:26:50.430 --> 01:26:52.284 Importantly, the CROS regimen has  
NOTE Confidence: 0.94337076

01:26:52.284 --> 01:26:53.324 a much lower dose of  
NOTE Confidence: 0.94337076

01:26:53.324 --> 01:26:54.684 radiation with just forty one  
NOTE Confidence: 0.94337076

01:26:54.684 --> 01:26:55.965 point four grammes, which is  
NOTE Confidence: 0.94337076

01:26:55.965 --> 01:26:57.085 very different from a more  
NOTE Confidence: 0.94337076

01:26:57.085 --> 01:26:58.525 definitive dose of radiation, which  
NOTE Confidence: 0.94337076

01:26:58.525 --> 01:26:59.905 is fifty point four grammes.  
NOTE Confidence: 0.94337076

01:26:59.965 --> 01:27:01.405 And the carboplatin is at  
NOTE Confidence: 0.94337076

01:27:01.405 --> 01:27:02.945 very low doses of chemotherapy,  
NOTE Confidence: 0.94337076

01:27:03.164 --> 01:27:05.085 which is, fifty milligrams or  
NOTE Confidence: 0.94337076

01:27:05.085 --> 01:27:07.580 kilogram of, paclitaxel weekly for

NOTE Confidence: 0.94337076

01:27:07.580 --> 01:27:09.180 five cycles and one point

NOTE Confidence: 0.94337076

01:27:09.180 --> 01:27:09.660 five,

NOTE Confidence: 0.9157403

01:27:10.700 --> 01:27:11.760 AUC of carboplatin,

NOTE Confidence: 0.96907

01:27:12.300 --> 01:27:13.580 five for five cycles, which

NOTE Confidence: 0.96907

01:27:13.580 --> 01:27:14.939 typically is not good enough

NOTE Confidence: 0.96907

01:27:14.939 --> 01:27:16.780 for systemic control. And so

NOTE Confidence: 0.96907

01:27:16.780 --> 01:27:18.140 most of the regimens that

NOTE Confidence: 0.96907

01:27:18.140 --> 01:27:19.420 we use would have much

NOTE Confidence: 0.96907

01:27:19.420 --> 01:27:20.640 higher doses of chemotherapy,

NOTE Confidence: 0.92602354

01:27:22.395 --> 01:27:24.335 with chemoRAS either using FOLFOX,

NOTE Confidence: 0.92602354

01:27:24.395 --> 01:27:25.595 like the CAOGB eight zero

NOTE Confidence: 0.92602354

01:27:25.595 --> 01:27:27.375 eight zero three regimen, or

NOTE Confidence: 0.92602354

01:27:27.435 --> 01:27:28.715 just having FLOT as a

NOTE Confidence: 0.92602354

01:27:28.715 --> 01:27:29.935 chemotherapy with,

NOTE Confidence: 0.87295943

01:27:30.555 --> 01:27:31.695 five FU oxaliplatin

NOTE Confidence: 0.90115714

01:27:31.995 --> 01:27:32.975 as well as docetaxel,  
NOTE Confidence: 0.9630259

01:27:33.755 --> 01:27:35.595 to improve the perioperative outcomes.  
NOTE Confidence: 0.9630259

01:27:35.595 --> 01:27:36.600 And this is an area  
NOTE Confidence: 0.9630259

01:27:36.600 --> 01:27:37.719 of a lot of controversy  
NOTE Confidence: 0.9630259

01:27:37.719 --> 01:27:38.860 and a lot of research,  
NOTE Confidence: 0.90584177

01:27:40.679 --> 01:27:42.360 that people are people are  
NOTE Confidence: 0.90584177

01:27:42.360 --> 01:27:43.179 working on.  
NOTE Confidence: 0.9513092

01:27:43.639 --> 01:27:44.439 We are at the top  
NOTE Confidence: 0.9513092

01:27:44.439 --> 01:27:45.159 of the hour, so I'm  
NOTE Confidence: 0.9513092

01:27:45.159 --> 01:27:46.199 gonna take a chance take  
NOTE Confidence: 0.9513092

01:27:46.199 --> 01:27:47.800 this opportunity to thank everyone  
NOTE Confidence: 0.9513092

01:27:47.800 --> 01:27:49.320 for joining us today. Take  
NOTE Confidence: 0.9513092

01:27:49.320 --> 01:27:51.344 this opportunity to have, have  
NOTE Confidence: 0.9513092

01:27:51.564 --> 01:27:53.405 my fantastic panelists joining me  
NOTE Confidence: 0.9513092

01:27:53.405 --> 01:27:54.764 and giving great talks, and,  
NOTE Confidence: 0.9837678

01:27:55.804 --> 01:27:56.764 thank you very much for

NOTE Confidence: 0.9837678

01:27:56.764 --> 01:27:57.724 joining us today, and have

NOTE Confidence: 0.9837678

01:27:57.724 --> 01:27:58.465 a great evening.