WEBVTT

NOTE duration:"00:48:28"

NOTE recognizability:0.844

NOTE language:en-us

NOTE Confidence: 0.697841731666667

00:00:00.000 --> 00:00:01.263 Hi. Welcome everybody.

NOTE Confidence: 0.697841731666667

00:00:01.263 --> 00:00:03.298 I'm Barbara burtness. I'm a.

NOTE Confidence: 0.697841731666667

00:00:03.298 --> 00:00:05.218 Medical oncologist and work on

NOTE Confidence: 0.697841731666667

00:00:05.218 --> 00:00:07.496 head and neck cancer and I'm

NOTE Confidence: 0.697841731666667

00:00:07.496 --> 00:00:09.925 really like I could not be more

NOTE Confidence: 0.697841731666667

00:00:10.002 --> 00:00:11.946 extraordinarily delighted than I

NOTE Confidence: 0.697841731666667

00:00:11.946 --> 00:00:15.040 am to be today presenting Dr Saral

NOTE Confidence: 0.697841731666667

00:00:15.040 --> 00:00:17.020 Mera as our grand round speaker.

NOTE Confidence: 0.697841731666667

00:00:17.020 --> 00:00:19.276 Doctor Mehra is an associate professor

NOTE Confidence: 0.697841731666667

00:00:19.276 --> 00:00:21.145 of surgery in otolaryngology and

NOTE Confidence: 0.697841731666667

00:00:21.145 --> 00:00:23.259 Section chief of head and neck surgery.

NOTE Confidence: 0.697841731666667

00:00:23.260 --> 00:00:25.360 He received his medical degree from

NOTE Confidence: 0.697841731666667

00:00:25.360 --> 00:00:26.760 Columbia University College of

NOTE Confidence: 0.697841731666667

00:00:26.818 --> 00:00:28.726 Physicians and Surgeons in New York,

NOTE Confidence: 0.697841731666667

00:00:28.730 --> 00:00:30.949 also obtained an MBA there and went

NOTE Confidence: 0.697841731666667

00:00:30.949 --> 00:00:32.831 on to residency in Otolaryngology

NOTE Confidence: 0.697841731666667

00:00:32.831 --> 00:00:35.411 Head neck surgery at New York

NOTE Confidence: 0.697841731666667

00:00:35.411 --> 00:00:37.329 Presbyterian Memorial Sloan Kettering,

NOTE Confidence: 0.697841731666667

00:00:37.330 --> 00:00:40.000 and then completed his training with

NOTE Confidence: 0.697841731666667

00:00:40.000 --> 00:00:42.194 a extremely coveted fellowship in

NOTE Confidence: 0.697841731666667

00:00:42.194 --> 00:00:44.264 head and neck and thyroid cancer

NOTE Confidence: 0.697841731666667

00:00:44.264 --> 00:00:45.770 surgery at Mount Sinai,

NOTE Confidence: 0.697841731666667

00:00:45.770 --> 00:00:48.362 including Subspecialization in

NOTE Confidence: 0.697841731666667

00:00:48.362 --> 00:00:50.090 complex reconstruction.

NOTE Confidence: 0.697841731666667

00:00:50.090 --> 00:00:51.970 His clinical practice focuses on

NOTE Confidence: 0.697841731666667

00:00:51.970 --> 00:00:53.850 treating patients with head and

NOTE Confidence: 0.697841731666667

00:00:53.912 --> 00:00:55.967 neck salivary and thyroid diseases,

NOTE Confidence: 0.697841731666667

00:00:55.970 --> 00:00:57.538 particularly those patients who

NOTE Confidence: 0.697841731666667

00:00:57.538 --> 00:00:59.498 need a very advanced resection

NOTE Confidence: 0.697841731666667

00:00:59.498 --> 00:01:01.409 or advanced reconstruction.

NOTE Confidence: 0.697841731666667

00:01:01.410 --> 00:01:02.976 And I've been privileged to share

NOTE Confidence: 0.697841731666667

00:01:02.976 --> 00:01:04.469 many hundreds of patients with him.

NOTE Confidence: 0.697841731666667

00:01:04.470 --> 00:01:06.941 And I can like very personally say

NOTE Confidence: 0.697841731666667

00:01:06.941 --> 00:01:08.751 his oncologic and reconstructive

NOTE Confidence: 0.697841731666667

00:01:08.751 --> 00:01:10.788 outcomes are exceptional.

NOTE Confidence: 0.697841731666667

00:01:10.790 --> 00:01:12.126 And so his primary research

NOTE Confidence: 0.697841731666667

00:01:12.126 --> 00:01:13.860 interest ties in this very nicely

NOTE Confidence: 0.697841731666667

00:01:13.911 --> 00:01:15.735 because he focuses on measuring and

NOTE Confidence: 0.697841731666667

00:01:15.735 --> 00:01:17.253 improving quality in the treatment

NOTE Confidence: 0.697841731666667

00:01:17.253 --> 00:01:18.989 of head neck cancers and I think

NOTE Confidence: 0.697841731666667

00:01:18.989 --> 00:01:20.585 one of the central conundrum.

NOTE Confidence: 0.697841731666667

00:01:20.585 --> 00:01:23.705 Our field is how do we take exceptional

NOTE Confidence: 0.697841731666667

00:01:23.705 --> 00:01:26.528 care and and broaden its accessibility

NOTE Confidence: 0.697841731666667

00:01:26.528 --> 00:01:28.211 and broaden its applicability.

NOTE Confidence: 0.697841731666667

00:01:28.211 --> 00:01:30.248 So he's going to be talking about

NOTE Confidence: 0.697841731666667

00:01:30.248 --> 00:01:31.758 quality and outcomes research and

NOTE Confidence: 0.697841731666667

00:01:31.758 --> 00:01:33.504 head neck cancer from bench to

NOTE Confidence: 0.697841731666667

00:01:33.504 --> 00:01:35.260 bedside with Yale leading the charge,

NOTE Confidence: 0.697841731666667

00:01:35.260 --> 00:01:35.630 Cyril.

NOTE Confidence: 0.922864263181818

00:01:40.990 --> 00:01:42.868 Thank you so much for that

NOTE Confidence: 0.922864263181818

00:01:42.868 --> 00:01:44.120 introduction Barbara and thank

NOTE Confidence: 0.922864263181818

00:01:44.175 --> 00:01:45.921 you everybody for logging in and

NOTE Confidence: 0.922864263181818

00:01:45.921 --> 00:01:47.689 and and listening to this talk.

NOTE Confidence: 0.922864263181818

00:01:47.690 --> 00:01:50.586 I know it's a diverse group of basic

NOTE Confidence: 0.922864263181818

00:01:50.586 --> 00:01:51.840 scientist clinical researchers

NOTE Confidence: 0.922864263181818

00:01:51.840 --> 00:01:53.684 and hopefully some outcomes

NOTE Confidence: 0.922864263181818

00:01:53.684 --> 00:01:55.989 researchers out there as well.

NOTE Confidence: 0.922864263181818

00:01:55.990 --> 00:01:58.530 So that's my topic.

NOTE Confidence: 0.922864263181818

00:01:58.530 --> 00:02:00.435 It's been discussed.

NOTE Confidence: 0.922864263181818

00:02:00.440 --> 00:02:02.366 Just make sure this is working.

NOTE Confidence: 0.930024702

00:02:13.520 --> 00:02:16.152 OK, so I have no I have

NOTE Confidence: 0.930024702

00:02:16.152 --> 00:02:17.280 no financial disclosures,

NOTE Confidence: 0.930024702

00:02:17.280 --> 00:02:19.464 so I couldn't do a head and neck

NOTE Confidence: 0.930024702

00:02:19.464 --> 00:02:21.557 research talk without mentioning 2

NOTE Confidence: 0.930024702

00:02:21.557 --> 00:02:23.529 important studies recently published,

NOTE Confidence: 0.930024702

00:02:23.530 --> 00:02:25.200 ECOG 3311 and keynote O48,

NOTE Confidence: 0.930024702

00:02:25.200 --> 00:02:26.920 of which Yale specifically Doctor

NOTE Confidence: 0.930024702

00:02:26.920 --> 00:02:29.344 Burtness was lead author on both of

NOTE Confidence: 0.930024702

00:02:29.344 --> 00:02:31.288 these very different types of studies.

NOTE Confidence: 0.930024702

00:02:31.290 --> 00:02:33.455 But these are practice changing

NOTE Confidence: 0.930024702

00:02:33.455 --> 00:02:34.754 studies recently published.

NOTE Confidence: 0.930024702

00:02:34.760 --> 00:02:38.312 Um ECOG 3311 looked at T1 and T2

NOTE Confidence: 0.930024702

00:02:38.312 --> 00:02:40.928 resectable HPV positive oropharynx

NOTE Confidence: 0.930024702

00:02:40.928 --> 00:02:43.718 squamous cell carcinoma and

NOTE Confidence: 0.930024702

00:02:43.718 --> 00:02:45.458 keynote O48 looked at locally

NOTE Confidence: 0.930024702

00:02:45.458 --> 00:02:47.770 the opposite end of the spectrum,

NOTE Confidence: 0.930024702

00:02:47.770 --> 00:02:50.240 locally incurable recurrent or metastatic

NOTE Confidence: 0.930024702

00:02:50.240 --> 00:02:52.178 head neck squamous cell carcinoma.

NOTE Confidence: 0.930024702

00:02:52.178 --> 00:02:53.758 What I've put up here,

NOTE Confidence: 0.930024702

00:02:53.760 --> 00:02:56.184 I'm not going into details of these studies,

NOTE Confidence: 0.930024702

00:02:56.190 --> 00:02:58.696 but what I've put up here are

NOTE Confidence: 0.930024702

00:02:58.696 --> 00:03:00.640 survival curves from these huge.

NOTE Confidence: 0.930024702

00:03:00.640 --> 00:03:02.760 Hugely important recent practice

NOTE Confidence: 0.930024702

00:03:02.760 --> 00:03:04.156 changing studies, OK,

NOTE Confidence: 0.930024702

00:03:04.156 --> 00:03:06.508 I'm not going to get into details

NOTE Confidence: 0.930024702

00:03:06.508 --> 00:03:08.420 about these over the next 45 minutes.

NOTE Confidence: 0.930024702

00:03:08.420 --> 00:03:10.308 What I really want to do though is

NOTE Confidence: 0.930024702

00:03:10.308 --> 00:03:12.165 convince you of two things and I think

NOTE Confidence: 0.930024702

00:03:12.165 --> 00:03:14.295 I may have already done the first one

NOTE Confidence: 0.930024702

00:03:14.295 --> 00:03:16.077 because it doesn't take much convincing.

NOTE Confidence: 0.930024702

00:03:16.080 --> 00:03:17.992 Large scale multi institutional

NOTE Confidence: 0.930024702

00:03:17.992 --> 00:03:20.382 randomized control trials are important

NOTE Confidence: 0.930024702

00:03:20.382 --> 00:03:23.140 and they can lead to practice changing

NOTE Confidence: 0.930024702

00:03:23.140 --> 00:03:25.900 innovations in the care of cancer patients.

NOTE Confidence: 0.930024702

00:03:25.900 --> 00:03:29.410 Any cancer, I'm going to put a

NOTE Confidence: 0.930024702

00:03:29.410 --> 00:03:30.820 check mark beside that already.

NOTE Confidence: 0.930024702

00:03:30.820 --> 00:03:32.254 Based on that first slide and

NOTE Confidence: 0.930024702

00:03:32.254 --> 00:03:33.470 which you probably already know,

NOTE Confidence: 0.930024702

00:03:33.470 --> 00:03:35.059 but really what I want to do

NOTE Confidence: 0.930024702

00:03:35.059 --> 00:03:36.769 is tell you that the quality,

NOTE Confidence: 0.930024702

00:03:36.770 --> 00:03:38.860 that quality of care research

NOTE Confidence: 0.930024702

00:03:38.860 --> 00:03:41.470 or call it what you will,

NOTE Confidence: 0.930024702

00:03:41.470 --> 00:03:44.010 patient reported outcomes reaches

NOTE Confidence: 0.930024702

00:03:44.010 --> 00:03:46.550 patient centered outcomes research.

NOTE Confidence: 0.930024702

00:03:46.550 --> 00:03:48.206 Comparative effectiveness research goes

NOTE Confidence: 0.930024702

00:03:48.206 --> 00:03:50.690 by different names at different times.

NOTE Confidence: 0.930024702

00:03:50.690 --> 00:03:52.776 But when you can take this from

NOTE Confidence: 0.930024702

00:03:52.776 --> 00:03:54.549 the bench to the bedside,

NOTE Confidence: 0.930024702

00:03:54.550 --> 00:03:57.118 we can have a remarkable impact

NOTE Confidence: 0.930024702

00:03:57.118 --> 00:03:58.402 on patient outcomes.

NOTE Confidence: 0.930024702

00:03:58.410 --> 00:04:00.111 And not only that but this type

NOTE Confidence: 0.930024702

00:04:00.111 --> 00:04:01.910 of research is actually necessary.

NOTE Confidence: 0.930024702

00:04:01.910 --> 00:04:04.283 For I'll put in quotes the real

NOTE Confidence: 0.930024702

00:04:04.283 --> 00:04:06.030 science to mean anything.

NOTE Confidence: 0.930024702

00:04:06.030 --> 00:04:08.218 That's the basic scientist,

NOTE Confidence: 0.930024702

00:04:08.218 --> 00:04:09.859 the clinical trials.

NOTE Confidence: 0.930024702

00:04:09.860 --> 00:04:11.300 That's what I want to convince you of.

NOTE Confidence: 0.930024702

00:04:11.300 --> 00:04:12.620 By the end of this talk,

NOTE Confidence: 0.930024702

00:04:12.620 --> 00:04:14.524 I'm going to start with a case.

NOTE Confidence: 0.930024702

00:04:14.530 --> 00:04:16.364 This is a 52 year old man.

NOTE Confidence: 0.930024702

00:04:16.370 --> 00:04:19.510 This is actually very recent.

NOTE Confidence: 0.930024702

00:04:19.510 --> 00:04:20.982 And within our system,

NOTE Confidence: 0.930024702

00:04:20.982 --> 00:04:22.942 OK, the very recent case,

NOTE Confidence: 0.930024702

00:04:22.942 --> 00:04:25.736 52 year old man never smoker 2.9

NOTE Confidence: 0.930024702

00:04:25.736 --> 00:04:28.172 centimeter right neck mass and a

NOTE Confidence: 0.930024702

00:04:28.172 --> 00:04:30.530 right tonsil mass was seen in our

NOTE Confidence: 0.930024702

00:04:30.530 --> 00:04:32.630 system and had a right tonsil mass.

NOTE Confidence: 0.930024702

00:04:32.630 --> 00:04:34.794 Biopsy showed poorly differentiated

NOTE Confidence: 0.930024702

00:04:34.794 --> 00:04:38.040 squamous cell carcinoma and the P-16

NOTE Confidence: 0.930024702

00:04:38.121 --> 00:04:41.277 stain was strongly and diffusely positive.

NOTE Confidence: 0.930024702

00:04:41.280 --> 00:04:44.620 The patient went for surgery.

NOTE Confidence: 0.930024702

00:04:44.620 --> 00:04:47.032 And what the pathology identified with

NOTE Confidence: 0.930024702

00:04:47.032 --> 00:04:49.458 the tonsillectomy and a neck mass

NOTE Confidence: 0.930024702

00:04:49.458 --> 00:04:51.696 excision was a P-16 positive cancer,

NOTE Confidence: 0.930024702

00:04:51.700 --> 00:04:53.940 3 centimeters extending to the

NOTE Confidence: 0.930024702

00:04:53.940 --> 00:04:56.908 margins of resection and a 2.7

NOTE Confidence: 0.930024702

00:04:56.908 --> 00:05:00.548 centimeter node with no ENE.

NOTE Confidence: 0.930024702

00:05:00.550 --> 00:05:02.524 And a few other nodes also that

NOTE Confidence: 0.930024702

00:05:02.524 --> 00:05:04.229 that came with the specimen.

NOTE Confidence: 0.930024702

00:05:04.230 --> 00:05:06.174 So this patient was then referred

NOTE Confidence: 0.930024702

00:05:06.174 --> 00:05:07.470 for radiation and chemotherapy.

NOTE Confidence: 0.930024702

00:05:07.470 --> 00:05:09.574 There's a positive margin.

NOTE Confidence: 0.930024702

00:05:09.574 --> 00:05:11.678 The guidelines say radiation

NOTE Confidence: 0.930024702

00:05:11.678 --> 00:05:15.460 chemotherapy was then re referred

NOTE Confidence: 0.930024702

00:05:15.460 --> 00:05:18.310 to but by care center physician

NOTE Confidence: 0.930024702

00:05:18.310 --> 00:05:20.298 to the head neck disease team at

NOTE Confidence: 0.930024702

00:05:20.298 --> 00:05:22.170 the at at the Big House.

NOTE Confidence: 0.930024702

00:05:22.170 --> 00:05:23.610 And this was interesting because

NOTE Confidence: 0.930024702

00:05:23.610 --> 00:05:25.700 a few things first of all was

NOTE Confidence: 0.930024702

00:05:25.700 --> 00:05:27.170 staging completed prior to treatment

NOTE Confidence: 0.930024702

00:05:27.170 --> 00:05:28.052 was one of

NOTE Confidence: 0.869758474137931

00:05:28.108 --> 00:05:29.653 the questions that came up

NOTE Confidence: 0.869758474137931

00:05:29.653 --> 00:05:30.889 when they were discussed.

NOTE Confidence: 0.869758474137931

00:05:30.890 --> 00:05:32.210 And the answer was no.

NOTE Confidence: 0.869758474137931

00:05:32.210 --> 00:05:34.844 And then more important was the

NOTE Confidence: 0.869758474137931

00:05:34.844 --> 00:05:37.610 latest science applied to this patient

NOTE Confidence: 0.869758474137931

00:05:37.610 --> 00:05:38.846 ECOG 3311 had already come out.

NOTE Confidence: 0.869758474137931

00:05:38.850 --> 00:05:41.636 I told you this is a very

NOTE Confidence: 0.869758474137931

00:05:41.636 --> 00:05:43.090 recent case and preoperatively

NOTE Confidence: 0.869758474137931

00:05:43.090 --> 00:05:44.390 pre surgery this patient will

NOTE Confidence: 0.869758474137931

00:05:44.390 --> 00:05:46.198 be in the low risk category of

NOTE Confidence: 0.903695358571429

00:05:48.470 --> 00:05:51.794 T1N1 cancer where we

NOTE Confidence: 0.903695358571429

00:05:51.794 --> 00:05:54.287 could potentially operate.

NOTE Confidence: 0.903695358571429

00:05:54.290 --> 00:05:56.408 And go to observation, no radiation,

NOTE Confidence: 0.903695358571429

00:05:56.410 --> 00:05:58.210 no chemotherapy and this patient

NOTE Confidence: 0.903695358571429

00:05:58.210 --> 00:06:00.382 have a 94% progression free survival

NOTE Confidence: 0.903695358571429

00:06:00.382 --> 00:06:02.962 based on the data from ECOG 3311.

NOTE Confidence: 0.903695358571429

00:06:02.962 --> 00:06:06.010 But now this patient has a positive margin.

NOTE Confidence: 0.903695358571429

00:06:06.010 --> 00:06:08.152 Now he's in the high risk category

NOTE Confidence: 0.903695358571429

00:06:08.152 --> 00:06:10.547 and now he technically should go

NOTE Confidence: 0.903695358571429

00:06:10.547 --> 00:06:12.887 on to chemotherapy and radiation.

NOTE Confidence: 0.903695358571429

00:06:12.890 --> 00:06:14.500 Nothing about this tumor change,

NOTE Confidence: 0.903695358571429

00:06:14.500 --> 00:06:15.790 nothing about the patient changed,

NOTE Confidence: 0.903695358571429

00:06:15.790 --> 00:06:17.962 about the biology changed,

NOTE Confidence: 0.903695358571429

00:06:17.962 --> 00:06:20.677 but now the treatment recommendation

NOTE Confidence: 0.903695358571429

00:06:20.677 --> 00:06:22.330 could be different.

NOTE Confidence: 0.903695358571429

00:06:22.330 --> 00:06:24.697 So we had a long discussion in tumor board.

NOTE Confidence: 0.903695358571429

00:06:24.700 --> 00:06:27.248 And what we decided to do after

NOTE Confidence: 0.903695358571429

00:06:27.248 --> 00:06:29.209 multidisciplinary team care was complete,

NOTE Confidence: 0.903695358571429

00:06:29.210 --> 00:06:31.585 the staging taken for transoral

NOTE Confidence: 0.903695358571429

00:06:31.585 --> 00:06:34.475 robotic surgery to clear that margin

NOTE Confidence: 0.903695358571429

00:06:34.475 --> 00:06:37.079 and do a formal neck dissection.

NOTE Confidence: 0.903695358571429

00:06:37.080 --> 00:06:37.386 Unfortunately,

NOTE Confidence: 0.903695358571429

00:06:37.386 --> 00:06:39.222 this patient did have to escalate

NOTE Confidence: 0.903695358571429

00:06:39.222 --> 00:06:40.140 after a discussion,

NOTE Confidence: 0.903695358571429

00:06:40.140 --> 00:06:42.905 we did decide to escalate his therapy

NOTE Confidence: 0.903695358571429

00:06:42.905 --> 00:06:45.360 to radiation because of the original

NOTE Confidence: 0.903695358571429

00:06:45.360 --> 00:06:47.435 positive margin and discussing the

NOTE Confidence: 0.903695358571429

00:06:47.435 --> 00:06:49.860 risks and benefits with the patient.

NOTE Confidence: 0.903695358571429

00:06:49.860 --> 00:06:50.301 Controversial,

NOTE Confidence: 0.903695358571429

00:06:50.301 --> 00:06:53.388 but that's what we decided to do.

NOTE Confidence: 0.903695358571429

00:06:53.390 --> 00:06:55.070 OK. So that's my case.

NOTE Confidence: 0.903695358571429

00:06:55.070 --> 00:06:56.494 Some kind of frames,

NOTE Confidence: 0.903695358571429

00:06:56.494 --> 00:06:57.206 this discussion,

NOTE Confidence: 0.903695358571429

00:06:57.210 --> 00:06:59.190 so some background and definitions.

NOTE Confidence: 0.903695358571429

00:06:59.190 --> 00:07:01.428 What is quality in cancer care?

NOTE Confidence: 0.903695358571429

00:07:01.430 --> 00:07:03.250 I'm not going to read all these,

NOTE Confidence: 0.903695358571429

00:07:03.250 --> 00:07:06.004 but if you look at some of the literature

NOTE Confidence: 0.903695358571429

00:07:06.004 --> 00:07:08.829 on quality and cancer care nationally,

NOTE Confidence: 0.903695358571429

00:07:08.830 --> 00:07:10.666 they have all these fancy definitions.

NOTE Confidence: 0.903695358571429

00:07:10.670 --> 00:07:12.526 But this is what I think is just,

NOTE Confidence: 0.903695358571429

00:07:12.530 --> 00:07:13.169 it's so simple,

NOTE Confidence: 0.903695358571429

00:07:13.169 --> 00:07:15.070 so simple and you all know this already,

NOTE Confidence: 0.903695358571429

00:07:15.070 --> 00:07:17.261 I know, but it's just getting the

NOTE Confidence: 0.903695358571429

00:07:17.261 --> 00:07:19.550 right care to the right patient at

NOTE Confidence: 0.903695358571429

00:07:19.550 --> 00:07:22.269 the right time and doing it every time.

NOTE Confidence: 0.903695358571429

00:07:22.270 --> 00:07:24.142 That's it, that's quality.

NOTE Confidence: 0.903695358571429

00:07:24.142 --> 00:07:25.078 In healthcare,

NOTE Confidence: 0.903695358571429

00:07:25.080 --> 00:07:26.244 especially cancer care.

NOTE Confidence: 0.903695358571429

00:07:26.244 --> 00:07:28.960 So what went wrong with this patient?

NOTE Confidence: 0.903695358571429

00:07:28.960 --> 00:07:29.989 This patient is going to do fine.

NOTE Confidence: 0.903695358571429

00:07:29.990 --> 00:07:32.562 The survival rate still 90% plus,

NOTE Confidence: 0.903695358571429

00:07:32.562 --> 00:07:33.386 you know,

NOTE Confidence: 0.903695358571429

00:07:33.386 --> 00:07:35.488 it wasn't technically harmed other

NOTE Confidence: 0.903695358571429

00:07:35.488 --> 00:07:37.192 than treatment and functionally

NOTE Confidence: 0.903695358571429

00:07:37.192 --> 00:07:39.310 and maybe some side effects,

NOTE Confidence: 0.903695358571429

00:07:39.310 --> 00:07:40.410 but he's going to live,

NOTE Confidence: 0.903695358571429

00:07:40.410 --> 00:07:41.565 he's going to have a good outcome.

NOTE Confidence: 0.903695358571429

00:07:41.570 --> 00:07:41.959 But,

NOTE Confidence: 0.903695358571429

00:07:41.959 --> 00:07:44.682 but I would argue this wasn't the

NOTE Confidence: 0.903695358571429

00:07:44.682 --> 00:07:47.144 highest quality of care and it

NOTE Confidence: 0.903695358571429

00:07:47.144 --> 00:07:49.149 wasn't applying the latest science.

NOTE Confidence: 0.903695358571429

00:07:49.150 --> 00:07:51.442 So if anyone here has been

NOTE Confidence: 0.903695358571429

00:07:51.442 --> 00:07:52.588 to Business School,

NOTE Confidence: 0.903695358571429

00:07:52.590 --> 00:07:55.146 you would have read a lot

NOTE Confidence: 0.903695358571429

00:07:55.146 --> 00:07:56.850 about Edward Edwards Deming,

NOTE Confidence: 0.903695358571429

00:07:56.850 --> 00:07:59.610 who created basically the Toyota,

NOTE Confidence: 0.903695358571429

00:07:59.610 --> 00:08:01.266 Toyota Quality Improvement

NOTE Confidence: 0.903695358571429

00:08:01.266 --> 00:08:04.026 process and brought you know,

NOTE Confidence: 0.903695358571429

00:08:04.030 --> 00:08:05.490 car production to the

NOTE Confidence: 0.903695358571429

00:08:05.490 --> 00:08:06.950 highest quality in Japan.

NOTE Confidence: 0.903695358571429

00:08:06.950 --> 00:08:09.326 And I think he said it best and

NOTE Confidence: 0.903695358571429

00:08:09.326 --> 00:08:11.668 it really applies to cancer care.

NOTE Confidence: 0.903695358571429

00:08:11.670 --> 00:08:14.148 What the fault in the interpretation

NOTE Confidence: 0.903695358571429

00:08:14.148 --> 00:08:15.800 of observations seen everywhere

NOTE Confidence: 0.903695358571429

00:08:15.864 --> 00:08:17.868 is just suppose that every event,

NOTE Confidence: 0.903695358571429

00:08:17.870 --> 00:08:20.310 any defective mistake and accident

NOTE Confidence: 0.903695358571429

00:08:20.310 --> 00:08:22.262 is attributable to someone,

NOTE Confidence: 0.903695358571429

00:08:22.270 --> 00:08:25.414 usually whoever's closest at hand or

NOTE Confidence: 0.903695358571429

00:08:25.414 --> 00:08:27.510 some special extraordinary event.

NOTE Confidence: 0.903695358571429

00:08:27.510 --> 00:08:28.430 But the fact is,

NOTE Confidence: 0.903695358571429

00:08:28.430 --> 00:08:30.430 it's not the people that are the issues,

NOTE Confidence: 0.903695358571429

00:08:30.430 --> 00:08:32.470 it's the system that doesn't work

NOTE Confidence: 0.903695358571429

00:08:32.470 --> 00:08:34.430 when there's errors and mistakes.

NOTE Confidence: 0.903695358571429

00:08:34.430 --> 00:08:35.938 The Institute of Medicine,

NOTE Confidence: 0.903695358571429

00:08:35.938 --> 00:08:38.690 in their crossing the Quality Chasm report,

NOTE Confidence: 0.903695358571429

00:08:38.690 --> 00:08:41.266 said it well that poor quality care

NOTE Confidence: 0.903695358571429

00:08:41.266 --> 00:08:43.809 occurs not because of a failure of

NOTE Confidence: 0.903695358571429

00:08:43.809 --> 00:08:46.610 goodwill or knowledge or effort or resources,

NOTE Confidence: 0.903695358571429

00:08:46.610 --> 00:08:48.405 but because of fundamental shortcomings

NOTE Confidence: 0.903695358571429

00:08:48.405 --> 00:08:51.020 in the way cancer care is organized.

NOTE Confidence: 0.903695358571429

00:08:51.020 --> 00:08:52.670 There's no there's no bad doctor,

NOTE Confidence: 0.903695358571429

00:08:52.670 --> 00:08:54.623 there's no one who wants to harm a patient.

NOTE Confidence: 0.903695358571429

00:08:54.630 --> 00:08:56.808 That I know of at least.

NOTE Confidence: 0.871056475714286

00:08:56.810 --> 00:09:00.527 But the system can be the problem.

NOTE Confidence: 0.871056475714286

00:09:00.530 --> 00:09:01.970 So how do we measure quality?

NOTE Confidence: 0.871056475714286

00:09:01.970 --> 00:09:04.382 There's really three ways what a

NOTE Confidence: 0.871056475714286

00:09:04.382 --> 00:09:07.218 lot of us do, and what was done

NOTE Confidence: 0.871056475714286

00:09:07.218 --> 00:09:09.904 all the time, many years ago,

NOTE Confidence: 0.871056475714286

00:09:09.904 --> 00:09:12.844 was implicit or expert review.

NOTE Confidence: 0.871056475714286

00:09:12.850 --> 00:09:13.970 I'm in an ivory tower.

NOTE Confidence: 0.871056475714286

00:09:13.970 --> 00:09:15.410 I say it's high quality.

NOTE Confidence: 0.871056475714286

00:09:15.410 --> 00:09:16.136 I'm. I'm great.

NOTE Confidence: 0.871056475714286

00:09:16.136 --> 00:09:17.854 And so it is. That's it.

NOTE Confidence: 0.871056475714286

00:09:17.854 --> 00:09:19.342 But there are scientific

NOTE Confidence: 0.871056475714286

00:09:19.342 --> 00:09:20.830 ways to measure quality,

NOTE Confidence: 0.871056475714286

00:09:20.830 --> 00:09:26.200 specifically structure and process metrics.

NOTE Confidence: 0.871056475714286

00:09:26.200 --> 00:09:28.948 So why is structure so important?

NOTE Confidence: 0.871056475714286

00:09:28.950 --> 00:09:30.637 Take a moment to talk about this.

NOTE Confidence: 0.871056475714286

00:09:30.640 --> 00:09:31.528 So right now,

NOTE Confidence: 0.871056475714286

00:09:31.528 --> 00:09:33.600 I'm sure you can all recognize the

NOTE Confidence: 0.871056475714286

00:09:33.665 --> 00:09:36.313 organization of cancer care most of the US,

NOTE Confidence: 0.871056475714286

00:09:36.320 --> 00:09:38.798 the patient at least in the middle,

NOTE Confidence: 0.871056475714286

00:09:38.800 --> 00:09:40.654 and then doctors all around them

NOTE Confidence: 0.871056475714286

00:09:40.654 --> 00:09:42.220 and communication can be very,

NOTE Confidence: 0.871056475714286

00:09:42.220 --> 00:09:42.700 very challenging.

NOTE Confidence: 0.871056475714286

00:09:42.700 --> 00:09:44.380 This happens to be from a publication.

NOTE Confidence: 0.871056475714286

00:09:44.380 --> 00:09:46.180 And regarding thyroid cancer cares,

NOTE Confidence: 0.871056475714286

00:09:46.180 --> 00:09:47.900 we've got nuclear medicine specialists,

NOTE Confidence: 0.871056475714286

00:09:47.900 --> 00:09:49.118 we've got radiologists,

NOTE Confidence: 0.871056475714286

00:09:49.118 --> 00:09:50.336 we've got endocrinologist,

NOTE Confidence: 0.871056475714286

00:09:50.340 --> 00:09:53.610 medical oncologists and the patients.

NOTE Confidence: 0.871056475714286

00:09:53.610 --> 00:09:58.335 Left in the middle and can be quite confused.

NOTE Confidence: 0.871056475714286

00:09:58.340 --> 00:10:00.170 This is the structure of hospital

NOTE Confidence: 0.871056475714286

00:10:00.170 --> 00:10:01.860 care in the United States.

NOTE Confidence: 0.871056475714286

00:10:01.860 --> 00:10:03.840 There's about 6000 hospitals

NOTE Confidence: 0.871056475714286

00:10:03.840 --> 00:10:06.315 registered in the United States.

NOTE Confidence: 0.871056475714286

00:10:06.320 --> 00:10:09.435 About 1500 of them are registered by

NOTE Confidence: 0.871056475714286

00:10:09.435 --> 00:10:12.702 the ACS Commission on Cancer and about

NOTE Confidence: 0.871056475714286

00:10:12.702 --> 00:10:16.068 71% are treated at ACS Commission

NOTE Confidence: 0.871056475714286

00:10:16.068 --> 00:10:19.530 on cancer accredited hospitals.

NOTE Confidence: 0.871056475714286

00:10:19.530 --> 00:10:21.287 And I'm sure you've heard of SEER,

NOTE Confidence: 0.871056475714286

00:10:21.290 --> 00:10:24.050 which is a representative national database

NOTE Confidence: 0.871056475714286

00:10:24.050 --> 00:10:27.354 and that captures about 14% of cancer cases,

NOTE Confidence: 0.871056475714286

00:10:27.354 --> 00:10:30.010 but is supposed to be and probably

NOTE Confidence: 0.871056475714286

00:10:30.010 --> 00:10:31.930 is representative of cancer care

NOTE Confidence: 0.871056475714286

00:10:31.994 --> 00:10:33.209 within the country.

NOTE Confidence: 0.871056475714286

00:10:33.210 --> 00:10:35.010 So you can get incidence rates from Seer,

NOTE Confidence: 0.871056475714286

00:10:35.010 --> 00:10:36.879 where you can't get that from NCDB,

NOTE Confidence: 0.871056475714286

00:10:36.880 --> 00:10:38.293 which is a,

NOTE Confidence: 0.871056475714286

00:10:38.293 --> 00:10:42.070 which is the Commission on cancer data set.

NOTE Confidence: 0.871056475714286

00:10:42.070 --> 00:10:43.438 There's a number of

NOTE Confidence: 0.871056475714286

00:10:43.438 --> 00:10:44.464 comprehensive cancer centers,

NOTE Confidence: 0.871056475714286

00:10:44.470 --> 00:10:45.523 there's cancer centers,

NOTE Confidence: 0.871056475714286

00:10:45.523 --> 00:10:46.927 there's community cancer centers,

NOTE Confidence: 0.871056475714286

00:10:46.930 --> 00:10:49.080 all designated by the NCI.

NOTE Confidence: 0.871056475714286

00:10:49.080 --> 00:10:51.312 And I tried to find how many surgeons

NOTE Confidence: 0.871056475714286

00:10:51.312 --> 00:10:52.802 or medical oncologist radiation

NOTE Confidence: 0.871056475714286

00:10:52.802 --> 00:10:55.418 oncologists treat head and neck cancer.

NOTE Confidence: 0.871056475714286

00:10:55.420 --> 00:10:56.836 As you could guess,

NOTE Confidence: 0.871056475714286

00:10:56.836 --> 00:10:59.350 it's pretty much impossible to find that.

NOTE Confidence: 0.871056475714286

00:10:59.350 --> 00:11:01.666 So the organization of US cancer

NOTE Confidence: 0.871056475714286

00:11:01.666 --> 00:11:03.638 cases so diffuse diverse that

NOTE Confidence: 0.871056475714286

00:11:03.638 --> 00:11:06.130 providers have not you as a provider,

NOTE Confidence: 0.871056475714286

00:11:06.130 --> 00:11:07.130 if you are a doctor,

NOTE Confidence: 0.871056475714286

00:11:07.130 --> 00:11:10.232 have not had to provide accountability

NOTE Confidence: 0.871056475714286

00:11:10.232 --> 00:11:13.358 for specific processes or outcomes for

NOTE Confidence: 0.871056475714286

00:11:13.358 --> 00:11:16.268 you specifically or at your center.

NOTE Confidence: 0.871056475714286

00:11:16.270 --> 00:11:18.438 OK, so now let's get into some research,

NOTE Confidence: 0.871056475714286

00:11:18.440 --> 00:11:19.792 research and cancer quality

NOTE Confidence: 0.871056475714286

00:11:19.792 --> 00:11:21.144 that that's my background.

NOTE Confidence: 0.871056475714286

00:11:21.150 --> 00:11:24.900 So my research journey at Yale

NOTE Confidence: 0.871056475714286

00:11:24.900 --> 00:11:27.690 really is about quality of care,

NOTE Confidence: 0.871056475714286

00:11:27.690 --> 00:11:30.090 patient centers, out centered outcomes.

NOTE Confidence: 0.871056475714286

00:11:30.090 --> 00:11:32.730 And what I'm trying to do now is

NOTE Confidence: 0.871056475714286

00:11:32.730 --> 00:11:35.008 my version of bench to bedside.

NOTE Confidence: 0.871056475714286

00:11:35.010 --> 00:11:37.917 So how do we take the science in outcomes

NOTE Confidence: 0.871056475714286

00:11:37.917 --> 00:11:39.927 research and apply it to patients?

NOTE Confidence: 0.871056475714286

00:11:39.930 --> 00:11:41.410 It's really not just fluff.

NOTE Confidence: 0.871056475714286

00:11:41.410 --> 00:11:43.660 I know there's real quote real

NOTE Confidence: 0.871056475714286

00:11:43.660 --> 00:11:46.186 scientists out there, basic scientists.

NOTE Confidence: 0.871056475714286

00:11:46.186 --> 00:11:48.516 Huge randomized control types

NOTE Confidence: 0.871056475714286

00:11:48.516 --> 00:11:49.696 of signs is out there.

NOTE Confidence: 0.871056475714286

00:11:49.700 --> 00:11:51.744 I think this is real and going

NOTE Confidence: 0.871056475714286

00:11:51.744 --> 00:11:54.200 to try and convince you of that.

NOTE Confidence: 0.871056475714286

00:11:54.200 --> 00:11:56.258 So my foray into patient centered

NOTE Confidence: 0.871056475714286

00:11:56.258 --> 00:11:58.025 outcomes research started in fellowship

NOTE Confidence: 0.871056475714286

00:11:58.025 --> 00:12:00.017 and these republished in my first

NOTE Confidence: 0.871056475714286

00:12:00.017 --> 00:12:02.005 year being here some pretty large

NOTE Confidence: 0.871056475714286

00:12:02.005 --> 00:12:03.865 reviews on thyroid cancer care and

NOTE Confidence: 0.871056475714286

00:12:03.865 --> 00:12:06.394 how can we measure and improve thyroid

NOTE Confidence: 0.871056475714286

00:12:06.394 --> 00:12:08.460 cancer care across the country.

NOTE Confidence: 0.871056475714286

00:12:08.460 --> 00:12:10.518 And I reviewed all the databases

NOTE Confidence: 0.871056475714286

00:12:10.518 --> 00:12:11.890 for thyroid cancer and

NOTE Confidence: 0.82588611625

00:12:11.958 --> 00:12:13.673 published these in thyroid with

NOTE Confidence: 0.82588611625

00:12:13.673 --> 00:12:16.172 a nice team of colleagues.

NOTE Confidence: 0.82588611625

00:12:16.172 --> 00:12:18.250 Um, kind of around the country

NOTE Confidence: 0.82588611625

00:12:18.250 --> 00:12:19.482 and thyroid cancer care.

NOTE Confidence: 0.82588611625

00:12:19.490 --> 00:12:20.862 When I got to Yale, I saw,

NOTE Confidence: 0.82588611625

00:12:20.862 --> 00:12:21.963 Oh my God, there's actually a

NOTE Confidence: 0.82588611625

00:12:21.963 --> 00:12:23.169 lot of people doing this stuff.

NOTE Confidence: 0.82588611625

00:12:23.170 --> 00:12:25.879 People like Dan BofA and Ben Judson,

NOTE Confidence: 0.82588611625

00:12:25.880 --> 00:12:27.590 who and and Kerry Gross,

NOTE Confidence: 0.82588611625

00:12:27.590 --> 00:12:29.865 who were really nationally known

NOTE Confidence: 0.82588611625

00:12:29.865 --> 00:12:32.380 in quality of cancer care research,

NOTE Confidence: 0.82588611625

00:12:32.380 --> 00:12:34.450 two of them being surgeons through

NOTE Confidence: 0.82588611625

00:12:34.450 --> 00:12:36.547 basic and head and neck surgeons.

NOTE Confidence: 0.82588611625

00:12:36.550 --> 00:12:38.046 So what I wanted to do first was,

NOTE Confidence: 0.82588611625

00:12:38.050 --> 00:12:40.096 well, how are we doing it, Yale?

NOTE Confidence: 0.82588611625

00:12:40.096 --> 00:12:42.532 I mean, are we delivering quality

NOTE Confidence: 0.82588611625

00:12:42.532 --> 00:12:44.758 care at Yale? I had no idea.

NOTE Confidence: 0.82588611625

00:12:44.758 --> 00:12:45.988 Nobody had any idea. Yes.

NOTE Confidence: 0.82588611625

00:12:45.988 --> 00:12:47.732 Many of these are even Dan and Ben.

NOTE Confidence: 0.82588611625

00:12:47.740 --> 00:12:48.700 And you asked them,

NOTE Confidence: 0.82588611625

00:12:48.700 --> 00:12:49.900 hey, how's your quality,

NOTE Confidence: 0.82588611625

00:12:49.900 --> 00:12:51.180 how's your divisions quality,

NOTE Confidence: 0.82588611625

00:12:51.180 --> 00:12:52.848 what's your margin rate,

NOTE Confidence: 0.82588611625

00:12:52.848 --> 00:12:54.933 survival rates for different cancers,

NOTE Confidence: 0.82588611625

00:12:54.940 --> 00:12:56.504 nobody had any idea.

NOTE Confidence: 0.82588611625

00:12:56.504 --> 00:12:57.677 So I tried,

NOTE Confidence: 0.82588611625

00:12:57.680 --> 00:12:59.416 I tried to figure this out and I

NOTE Confidence: 0.82588611625

00:12:59.416 --> 00:13:01.107 created a head neck scorecard using

NOTE Confidence: 0.82588611625

00:13:01.107 --> 00:13:03.430 some of the science and outcomes research.

NOTE Confidence: 0.82588611625

00:13:03.430 --> 00:13:04.782 We had structural metrics.

NOTE Confidence: 0.82588611625

00:13:04.782 --> 00:13:06.500 We had process metrics, pretreatment,

NOTE Confidence: 0.82588611625

00:13:06.500 --> 00:13:08.300 treatment post treatment and then

NOTE Confidence: 0.82588611625

00:13:08.300 --> 00:13:09.888 of course outcomes, oncologic,

NOTE Confidence: 0.82588611625

00:13:09.888 --> 00:13:11.920 functional and patient reported

NOTE Confidence: 0.82588611625

00:13:11.920 --> 00:13:12.936 outcome metrics.

NOTE Confidence: 0.82588611625

00:13:12.940 --> 00:13:14.380 We created this big scorecard,

NOTE Confidence: 0.82588611625

00:13:14.380 --> 00:13:16.246 reviewed all the registry data over.

NOTE Confidence: 0.82588611625

00:13:16.250 --> 00:13:19.160 A few years divided things into

NOTE Confidence: 0.82588611625

00:13:19.160 --> 00:13:20.714 surgical outcomes, medical outcomes.

NOTE Confidence: 0.82588611625

00:13:20.714 --> 00:13:23.050 I'm not going into the details of this,

NOTE Confidence: 0.82588611625

00:13:23.050 --> 00:13:26.442 and what I found was that it was

NOTE Confidence: 0.82588611625

00:13:26.442 --> 00:13:29.650 actually hard to get the data.

NOTE Confidence: 0.82588611625

00:13:29.650 --> 00:13:30.556 And 2nd,

NOTE Confidence: 0.82588611625

00:13:30.556 --> 00:13:32.170 we didn't really have national

NOTE Confidence: 0.82588611625

00:13:32.170 --> 00:13:34.534 benchmarks upon which to compare our

NOTE Confidence: 0.82588611625

00:13:34.534 --> 00:13:36.929 data with the country as a whole.

NOTE Confidence: 0.82588611625

00:13:36.930 --> 00:13:39.837 We were sort of in the realm of expert

NOTE Confidence: 0.82588611625

00:13:39.837 --> 00:13:41.998 opinion to say how we were doing.

NOTE Confidence: 0.864245848636363

00:13:44.500 --> 00:13:47.191 So it was under that idea that I began

NOTE Confidence: 0.864245848636363

00:13:47.191 --> 00:13:50.013 the first stage of research in measuring

NOTE Confidence: 0.864245848636363

00:13:50.013 --> 00:13:52.569 quality and head and neck cancer.

NOTE Confidence: 0.864245848636363

00:13:52.570 --> 00:13:54.934 So these were some of the

NOTE Confidence: 0.864245848636363

00:13:54.934 --> 00:13:57.089 areas of interest that I had.

NOTE Confidence: 0.864245848636363

00:13:57.090 --> 00:13:59.554 I started first with volumes and outcomes,

NOTE Confidence: 0.864245848636363

00:13:59.560 --> 00:14:02.452 a structural metric. I didn't spend

NOTE Confidence: 0.864245848636363

00:14:02.452 --> 00:14:05.630 much too much time here because.

NOTE Confidence: 0.864245848636363

00:14:05.630 --> 00:14:07.085 It's been published and researched

NOTE Confidence: 0.864245848636363

00:14:07.085 --> 00:14:08.910 and sort of known to death.

NOTE Confidence: 0.864245848636363

00:14:08.910 --> 00:14:12.270 Higher volumes lead to better outcomes.

NOTE Confidence: 0.864245848636363

00:14:12.270 --> 00:14:15.390 It's been known for years and every aspect,

NOTE Confidence: 0.864245848636363

00:14:15.390 --> 00:14:17.870 probably of medicine definitely surges,

NOTE Confidence: 0.864245848636363

00:14:17.870 --> 00:14:19.094 definitely surgery.

NOTE Confidence: 0.864245848636363

00:14:19.094 --> 00:14:22.644 Here's a few studies published 2009, 2010.

NOTE Confidence: 0.864245848636363

00:14:22.644 --> 00:14:24.338 And I was surprised to see even

NOTE Confidence: 0.864245848636363

00:14:24.338 --> 00:14:26.044 in this last studies, 2022,

NOTE Confidence: 0.864245848636363

00:14:26.044 --> 00:14:28.314 people are still publishing the

NOTE Confidence: 0.864245848636363

00:14:28.314 --> 00:14:30.130 volume outcomes relationship studies.

NOTE Confidence: 0.864245848636363

00:14:30.130 --> 00:14:31.470 That was pretty well known,

NOTE Confidence: 0.864245848636363

00:14:31.470 --> 00:14:33.510 but I didn't want to be left in the lurch.

NOTE Confidence: 0.864245848636363

00:14:33.510 --> 00:14:34.945 So I looked at this as well.

NOTE Confidence: 0.864245848636363

00:14:34.950 --> 00:14:36.060 I said well, how about.

NOTE Confidence: 0.864245848636363

00:14:36.060 --> 00:14:37.596 I tried to look at Connecticut.

NOTE Confidence: 0.864245848636363

00:14:37.600 --> 00:14:38.958 Turns out the NCDB won't give you

NOTE Confidence: 0.864245848636363

00:14:38.958 --> 00:14:40.133 the data for Connecticut because

NOTE Confidence: 0.864245848636363

00:14:40.133 --> 00:14:41.503 there's not that many hospitals

NOTE Confidence: 0.864245848636363

00:14:41.503 --> 00:14:42.853 and you could probably identify

NOTE Confidence: 0.864245848636363

00:14:42.853 --> 00:14:44.533 which hospital is which one of you

NOTE Confidence: 0.864245848636363

00:14:44.533 --> 00:14:46.700 were trying to do the research.

NOTE Confidence: 0.864245848636363

00:14:46.700 --> 00:14:47.302 For example,

NOTE Confidence: 0.864245848636363

00:14:47.302 --> 00:14:49.108 I don't think there's too many

NOTE Confidence: 0.864245848636363

00:14:49.108 --> 00:14:51.060 hospitals in Connecticut that do 200.

NOTE Confidence: 0.864245848636363

00:14:51.060 --> 00:14:53.856 Analytic head and neck cancer cases,

NOTE Confidence: 0.864245848636363

00:14:53.860 --> 00:14:56.434 but I was able to get New England data

NOTE Confidence: 0.864245848636363

00:14:56.434 --> 00:14:59.558 and so we looked at data for upper

NOTE Confidence: 0.864245848636363

00:14:59.558 --> 00:15:01.560 aerodigestive tract cancers and we

NOTE Confidence: 0.864245848636363

00:15:01.560 --> 00:15:04.157 looked at average case volume by hospital,

NOTE Confidence: 0.864245848636363

00:15:04.160 --> 00:15:08.602 which was about 26 cases per year with a

NOTE Confidence: 0.864245848636363

00:15:08.602 --> 00:15:11.920 range of 1 case to 213 cases per year.

NOTE Confidence: 0.864245848636363

00:15:11.920 --> 00:15:14.260 And we did our standard multivariate

NOTE Confidence: 0.864245848636363

00:15:14.337 --> 00:15:16.357 analysis controlling for age,

NOTE Confidence: 0.864245848636363

00:15:16.360 --> 00:15:17.266 stage grade,

NOTE Confidence: 0.864245848636363

00:15:17.266 --> 00:15:17.719 comorbidity,

NOTE Confidence: 0.864245848636363

00:15:17.719 --> 00:15:20.437 insurance status and we found that

NOTE Confidence: 0.864245848636363

00:15:20.437 --> 00:15:22.958 worse survival was associated with.

NOTE Confidence: 0.864245848636363

00:15:22.960 --> 00:15:24.500 Treatments at a facility seeing

NOTE Confidence: 0.864245848636363

00:15:24.500 --> 00:15:26.738 less than 50 cases per year compared

NOTE Confidence: 0.864245848636363

00:15:26.738 --> 00:15:28.328 to greater than 50 cases,

NOTE Confidence: 0.864245848636363

00:15:28.330 --> 00:15:31.588 a pretty pretty impressive hazard ratio.

NOTE Confidence: 0.864245848636363

00:15:31.590 --> 00:15:35.109 Not new, not novel. But I wanted to know.

NOTE Confidence: 0.864245848636363

00:15:35.110 --> 00:15:36.406 I'm Canadian. I'm in New England.

NOTE Confidence: 0.864245848636363

00:15:36.410 --> 00:15:37.718 How are we doing?

NOTE Confidence: 0.864245848636363

00:15:37.718 --> 00:15:40.600 And that that gave me the the answer.

NOTE Confidence: 0.864245848636363

00:15:40.600 --> 00:15:42.550 So then I went on to a series of studies

NOTE Confidence: 0.864245848636363

00:15:42.608 --> 00:15:44.420 looking at timeliness in cancer care.

NOTE Confidence: 0.864245848636363

00:15:44.420 --> 00:15:46.400 So why is timeliness important?

NOTE Confidence: 0.864245848636363

00:15:46.400 --> 00:15:46.899 Well,

NOTE Confidence: 0.864245848636363

00:15:46.899 --> 00:15:49.394 timely diagnosis and treatment is

NOTE Confidence: 0.864245848636363

00:15:49.394 --> 00:15:51.869 associated with improved perceived quality

NOTE Confidence: 0.864245848636363

00:15:51.869 --> 00:15:54.299 of care and lower patient anxiety.

NOTE Confidence: 0.864245848636363

00:15:54.300 --> 00:15:55.488 So that's important.

NOTE Confidence: 0.864245848636363

00:15:55.488 --> 00:15:57.864 And then one could say that

NOTE Confidence: 0.864245848636363

00:15:57.864 --> 00:15:59.851 assuming the disease progresses

NOTE Confidence: 0.864245848636363

00:15:59.851 --> 00:16:01.875 while waiting for treatment,

NOTE Confidence: 0.864245848636363

00:16:01.880 --> 00:16:04.466 delays may result in more extensive

NOTE Confidence: 0.864245848636363

00:16:04.466 --> 00:16:06.640 treatment and possibly increased costs.

NOTE Confidence: 0.864245848636363

00:16:06.640 --> 00:16:07.378 And 3rd,

NOTE Confidence: 0.864245848636363

00:16:07.378 --> 00:16:08.854 the impact of treatment

NOTE Confidence: 0.864245848636363

00:16:08.854 --> 00:16:10.720 timeliness for cancer on true.

NOTE Confidence: 0.864245848636363

00:16:10.720 --> 00:16:12.832 Health outcomes like patient

NOTE Confidence: 0.864245848636363

00:16:12.832 --> 00:16:13.888 reported outcomes,

NOTE Confidence: 0.864245848636363

00:16:13.890 --> 00:16:14.534 functional outcomes,

NOTE Confidence: 0.864245848636363

00:16:14.534 --> 00:16:16.788 even survival a little bit less clear

NOTE Confidence: 0.864245848636363

00:16:16.788 --> 00:16:19.083 and this is going back you know 10 or 15,

NOTE Confidence: 0.864245848636363

00:16:19.090 --> 00:16:20.818 about 10 years when I was

NOTE Confidence: 0.864245848636363

00:16:20.818 --> 00:16:21.970 doing this research originally.

NOTE Confidence: 0.864245848636363

00:16:21.970 --> 00:16:24.266 So we started a number of studies.

NOTE Confidence: 0.864245848636363

00:16:24.270 --> 00:16:25.910 First we looked at treatment

NOTE Confidence: 0.864245848636363

00:16:25.910 --> 00:16:27.222 delays in oral cavity,

NOTE Confidence: 0.864245848636363

00:16:27.230 --> 00:16:30.008 squamous cell cancer across the country.

NOTE Confidence: 0.864245848636363

00:16:30.010 --> 00:16:31.672 We had three objectives in this

NOTE Confidence: 0.864245848636363

00:16:31.672 --> 00:16:33.455 study and this study was presented

NOTE Confidence: 0.864245848636363

00:16:33.455 --> 00:16:35.309 at the American Head Neck Society

NOTE Confidence: 0.864245848636363

00:16:35.309 --> 00:16:37.153 meeting as one of the best papers

NOTE Confidence: 0.864245848636363

00:16:37.153 --> 00:16:39.090 at the meeting and we looked at

NOTE Confidence: 0.864245848636363

00:16:39.090 --> 00:16:40.990 national trends in treatment time.

NOTE Confidence: 0.864245848636363

00:16:40.990 --> 00:16:43.447 Tables in patients with oral cavity cancer.

NOTE Confidence: 0.881441882

00:16:43.450 --> 00:16:45.270 So just get some benchmarks.

NOTE Confidence: 0.881441882

00:16:45.270 --> 00:16:46.710 How is the country doing?

NOTE Confidence: 0.881441882

00:16:46.710 --> 00:16:48.326 How can we know how we're doing at

NOTE Confidence: 0.881441882

00:16:48.326 --> 00:16:50.228 Yale or you're doing wherever you are?

NOTE Confidence: 0.881441882

00:16:50.230 --> 00:16:52.886 If we don't know what a benchmark is,

NOTE Confidence: 0.881441882

00:16:52.890 --> 00:16:55.218 then we wanted to identify factors

NOTE Confidence: 0.881441882

00:16:55.218 --> 00:16:56.770 associated with extended treatment

NOTE Confidence: 0.881441882

00:16:56.826 --> 00:16:58.812 time intervals and then to determine

NOTE Confidence: 0.881441882

00:16:58.812 --> 00:17:00.650 if delays in treatment intervals

NOTE Confidence: 0.881441882

00:17:00.650 --> 00:17:02.446 were associated with survival.

NOTE Confidence: 0.881441882

00:17:02.450 --> 00:17:04.487 These last two were more secondary outcomes.

NOTE Confidence: 0.881441882

00:17:04.490 --> 00:17:06.373 Really my main purpose of this was

NOTE Confidence: 0.881441882

00:17:06.373 --> 00:17:08.710 just to see how is the country doing.

NOTE Confidence: 0.881441882

00:17:08.710 --> 00:17:10.840 So we went through our standard.

NOTE Confidence: 0.881441882

00:17:10.840 --> 00:17:12.576 Inclusion exclusion criteria of

NOTE Confidence: 0.881441882

00:17:12.576 --> 00:17:14.746 oral cavity squamous cell carcinoma

NOTE Confidence: 0.881441882

00:17:14.746 --> 00:17:17.181 treated over a 14 year period using

NOTE Confidence: 0.881441882

00:17:17.181 --> 00:17:18.848 the National Cancer database and

NOTE Confidence: 0.881441882

00:17:18.848 --> 00:17:21.032 ended with about 6000 patients in the

NOTE Confidence: 0.881441882

00:17:21.032 --> 00:17:23.340 final cohort with oral cavity cancer.

NOTE Confidence: 0.881441882

00:17:23.340 --> 00:17:25.860 These are the time intervals that

NOTE Confidence: 0.881441882

00:17:25.935 --> 00:17:29.019 we measured diagnosis to surgery was

NOTE Confidence: 0.881441882

00:17:29.019 --> 00:17:31.075 diagnosis to treatment initiation.

NOTE Confidence: 0.881441882

00:17:31.080 --> 00:17:33.496 Surgery to RT start was what it says

NOTE Confidence: 0.881441882

00:17:33.496 --> 00:17:35.877 and then RT start to RT radiation

NOTE Confidence: 0.881441882

00:17:35.877 --> 00:17:38.153 start to radiation end was was at

NOTE Confidence: 0.881441882

00:17:38.153 --> 00:17:40.444 its was as it says and then we had

NOTE Confidence: 0.881441882

00:17:40.444 --> 00:17:41.964 total treatment package which is

NOTE Confidence: 0.881441882

00:17:41.964 --> 00:17:43.944 from when you started treatment to

NOTE Confidence: 0.881441882

00:17:43.944 --> 00:17:45.704 ending treatment and then diagnosis

NOTE Confidence: 0.881441882

00:17:45.704 --> 00:17:46.760 to treatment ends.

NOTE Confidence: 0.881441882

00:17:46.760 --> 00:17:49.120 So these are these are the intervals

NOTE Confidence: 0.881441882

00:17:49.120 --> 00:17:52.840 that we used and this is what we found.

NOTE Confidence: 0.881441882

00:17:52.840 --> 00:17:55.087 These are box plots you can hear

NOTE Confidence: 0.881441882

00:17:55.087 --> 00:17:57.341 you see huge variation across the

NOTE Confidence: 0.881441882

00:17:57.341 --> 00:17:59.777 country in every single one of

NOTE Confidence: 0.881441882

00:17:59.777 --> 00:18:01.689 these treatment intervals.

NOTE Confidence: 0.881441882

00:18:01.690 --> 00:18:02.730 As a quality researcher,

NOTE Confidence: 0.881441882

00:18:02.730 --> 00:18:04.290 if you are when you'll know,

NOTE Confidence: 0.881441882

00:18:04.290 --> 00:18:06.048 or any researcher really would know,

NOTE Confidence: 0.881441882

00:18:06.050 --> 00:18:08.510 that the wider these box plots,

NOTE Confidence: 0.881441882

00:18:08.510 --> 00:18:11.456 the greater variation and a huge

NOTE Confidence: 0.881441882

00:18:11.456 --> 00:18:13.420 opportunity for quality improvement

NOTE Confidence: 0.881441882

00:18:13.495 --> 00:18:15.589 is to shrink these box plots.

NOTE Confidence: 0.881441882

00:18:15.590 --> 00:18:18.430 We looked at survival.

NOTE Confidence: 0.881441882

00:18:18.430 --> 00:18:19.666 Again, secondary outcome,

NOTE Confidence: 0.881441882

00:18:19.666 --> 00:18:21.726 probably not the best database

NOTE Confidence: 0.881441882

00:18:21.726 --> 00:18:23.389 to look at survival.

NOTE Confidence: 0.881441882

00:18:23.390 --> 00:18:25.766 Plus we only had overall survival.

NOTE Confidence: 0.881441882

00:18:25.770 --> 00:18:27.756 What we found was that radiation

NOTE Confidence: 0.881441882

00:18:27.756 --> 00:18:30.079 duration if you were in the median

NOTE Confidence: 0.881441882

00:18:30.079 --> 00:18:32.263 or below versus the 4th quartile was

NOTE Confidence: 0.881441882

00:18:32.329 --> 00:18:35.139 significantly associated with worse survival,

NOTE Confidence: 0.881441882

00:18:35.140 --> 00:18:36.950 meaning treatment breaks during radiation.

NOTE Confidence: 0.881441882

00:18:36.950 --> 00:18:37.614 Not new,

NOTE Confidence: 0.881441882

00:18:37.614 --> 00:18:40.270 not novel but but that's what we found.

NOTE Confidence: 0.881441882

00:18:40.270 --> 00:18:41.656 And look at this survival curve.

NOTE Confidence: 0.881441882

00:18:41.660 --> 00:18:43.516 This is RT duration.

NOTE Confidence: 0.881441882

00:18:43.516 --> 00:18:46.574 You compare this to the ECOG 3311

NOTE Confidence: 0.881441882

00:18:46.574 --> 00:18:48.776 and the keynote O48 survival curves,

NOTE Confidence: 0.881441882

00:18:48.780 --> 00:18:50.120 which I flashed up there.

NOTE Confidence: 0.881441882

00:18:50.120 --> 00:18:53.369 I think this is a little bit more impressive.

NOTE Confidence: 0.881441882

00:18:53.370 --> 00:18:55.926 Not as great a study but so many

NOTE Confidence: 0.881441882

00:18:55.926 --> 00:18:58.750 more problems with it but I just do

NOTE Confidence: 0.881441882

00:18:58.832 --> 00:19:01.296 that for a visualization and these

NOTE Confidence: 0.881441882

00:19:01.296 --> 00:19:03.432 were this is what I thought was more

NOTE Confidence: 0.881441882

00:19:03.432 --> 00:19:06.036 more interesting though was the now

NOTE Confidence: 0.881441882

00:19:06.036 --> 00:19:08.460 finally we had time intervals across

NOTE Confidence: 0.881441882

00:19:08.460 --> 00:19:10.901 the country at NCNC DBCC accredited

NOTE Confidence: 0.881441882

00:19:10.901 --> 00:19:13.589 hospitals for for median times to

NOTE Confidence: 0.881441882

00:19:13.589 --> 00:19:16.990 treatment and and this is what we're at.

NOTE Confidence: 0.881441882

00:19:16.990 --> 00:19:18.646 We did this a lot and we did

NOTE Confidence: 0.881441882

00:19:18.646 --> 00:19:19.830 it for oral cavity.

NOTE Confidence: 0.881441882

00:19:19.830 --> 00:19:22.098 We did it for oral pharynx

NOTE Confidence: 0.881441882

00:19:22.098 --> 00:19:23.232 treated with surgery.

NOTE Confidence: 0.881441882

00:19:23.240 --> 00:19:26.800 We did it with oropharynx

NOTE Confidence: 0.881441882

00:19:26.800 --> 00:19:28.224 treated nonsurgically.

NOTE Confidence: 0.881441882

00:19:28.230 --> 00:19:30.696 We did it for hypopharynx cancer.

NOTE Confidence: 0.881441882

00:19:30.700 --> 00:19:33.550 Did it for salivary cancer and

NOTE Confidence: 0.881441882

00:19:33.550 --> 00:19:34.975 we established benchmarks.

NOTE Confidence: 0.881441882

00:19:34.980 --> 00:19:37.356 We we had box plots for all of these.

NOTE Confidence: 0.881441882

00:19:37.360 --> 00:19:38.575 We looked at survival outcomes

NOTE Confidence: 0.881441882

00:19:38.575 --> 00:19:39.547 for all of these.

NOTE Confidence: 0.881441882

00:19:39.550 --> 00:19:41.574 So I told you about oral cavity already.

NOTE Confidence: 0.881441882

00:19:41.580 --> 00:19:42.600 Here's oral pharynx,

NOTE Confidence: 0.881441882

00:19:42.600 --> 00:19:44.980 look at the the wide variety in

NOTE Confidence: 0.762733559545455

00:19:45.051 --> 00:19:47.886 the whole huge variation in treatment for

NOTE Confidence: 0.762733559545455

00:19:47.886 --> 00:19:50.420 oral fairness cancer treated surgically.

NOTE Confidence: 0.762733559545455

00:19:50.420 --> 00:19:52.164 Here's a survival curve.

NOTE Confidence: 0.762733559545455

00:19:52.164 --> 00:19:54.448 This was diagnosis to treatment end.

NOTE Confidence: 0.762733559545455

00:19:54.448 --> 00:19:56.916 We're seeing big differences if you were

NOTE Confidence: 0.762733559545455

00:19:56.916 --> 00:19:58.988 delayed versus not delayed and this was

NOTE Confidence: 0.762733559545455

00:19:58.988 --> 00:20:01.430 the same for oral pharynx cancer treated.

NOTE Confidence: 0.762733559545455

00:20:01.430 --> 00:20:02.969 Nonsurgically multivariate analysis

NOTE Confidence: 0.762733559545455

00:20:02.969 --> 00:20:06.047 controlling for all the standard factors

NOTE Confidence: 0.762733559545455

00:20:06.047 --> 00:20:08.788 that we always control for hypopharynx,

NOTE Confidence: 0.762733559545455

00:20:08.790 --> 00:20:11.346 cancer, salivary cancer, it goes on.

NOTE Confidence: 0.762733559545455

00:20:11.350 --> 00:20:14.302 So my point here is that analysis of

NOTE Confidence: 0.762733559545455

00:20:14.302 --> 00:20:17.170 variation in treatment time intervals really

NOTE Confidence: 0.762733559545455

00:20:17.170 --> 00:20:20.930 can identify opportunities for us to improve.

NOTE Confidence: 0.762733559545455

00:20:20.930 --> 00:20:22.694 2nd, we found that there's a number

NOTE Confidence: 0.762733559545455

00:20:22.694 --> 00:20:24.029 of factors associated with delays.

NOTE Confidence: 0.762733559545455

00:20:24.030 --> 00:20:27.292 I didn't show you that that data here,

NOTE Confidence: 0.762733559545455

00:20:27.292 --> 00:20:30.580 but these can also are are often related

NOTE Confidence: 0.762733559545455

00:20:30.666 --> 00:20:33.486 to access and coordination of care.

NOTE Confidence: 0.762733559545455

00:20:33.490 --> 00:20:35.810 And so the third finding here was that

NOTE Confidence: 0.762733559545455

00:20:35.810 --> 00:20:38.384 every effort should be made to prevent

NOTE Confidence: 0.762733559545455

00:20:38.384 --> 00:20:39.928 prevent radiation treatment breaks,

NOTE Confidence: 0.762733559545455

00:20:39.930 --> 00:20:41.778 because in every single one of those

NOTE Confidence: 0.762733559545455

00:20:41.778 --> 00:20:43.647 there was a significant association

NOTE Confidence: 0.762733559545455

00:20:43.647 --> 00:20:45.168 with overall survival,

NOTE Confidence: 0.762733559545455

00:20:45.170 --> 00:20:47.600 meaning worse if you had treatment

NOTE Confidence: 0.762733559545455

00:20:47.600 --> 00:20:49.220 breaks or extended radiation.

NOTE Confidence: 0.762733559545455

00:20:49.220 --> 00:20:50.813 And this matters to patients, too.

NOTE Confidence: 0.762733559545455

00:20:50.813 --> 00:20:54.117 Here's a patient with an oral cavity cancer

NOTE Confidence: 0.762733559545455

00:20:54.117 --> 00:20:56.678 diagnosed elsewhere delayed getting in,

NOTE Confidence: 0.762733559545455

00:20:56.680 --> 00:20:58.498 starting with an oral cavity cancer,

NOTE Confidence: 0.762733559545455

00:20:58.500 --> 00:20:59.316 but eventually,

NOTE Confidence: 0.762733559545455

00:20:59.316 --> 00:21:01.356 when he came to treatment,

NOTE Confidence: 0.762733559545455

00:21:01.360 --> 00:21:03.868 extending through his skin,

NOTE Confidence: 0.762733559545455

00:21:03.868 --> 00:21:05.749 through the mandible.

NOTE Confidence: 0.762733559545455

00:21:05.750 --> 00:21:07.037 Original CT scan,

NOTE Confidence: 0.762733559545455

00:21:07.037 --> 00:21:10.040 no mandible invasion and here we are

NOTE Confidence: 0.762733559545455

00:21:10.120 --> 00:21:12.980 taking this cancer out mandibulectomy

NOTE Confidence: 0.762733559545455

00:21:12.980 --> 00:21:15.840 composite SO4 mouth mandible skin,

NOTE Confidence: 0.762733559545455

00:21:15.840 --> 00:21:17.985 using the fibula to reconstruct

NOTE Confidence: 0.762733559545455

00:21:17.985 --> 00:21:21.051 with a plate and using the skin

NOTE Confidence: 0.762733559545455

00:21:21.051 --> 00:21:23.553 on the outside to reconstruct so.

NOTE Confidence: 0.762733559545455

00:21:23.560 --> 00:21:26.248 Cancer is out, but at what cost?

NOTE Confidence: 0.762733559545455

00:21:26.250 --> 00:21:28.520 Because of delay in diagnosis,

NOTE Confidence: 0.762733559545455

00:21:28.520 --> 00:21:29.450 delay in treatment,

NOTE Confidence: 0.762733559545455

00:21:29.450 --> 00:21:31.310 delay in diagnosis is a whole

NOTE Confidence: 0.762733559545455

00:21:31.310 --> 00:21:32.300 other discussion,

NOTE Confidence: 0.762733559545455

00:21:32.300 --> 00:21:34.496 which I don't talk about and

NOTE Confidence: 0.762733559545455

00:21:34.500 --> 00:21:35.328 I don't really study.

NOTE Confidence: 0.896226884545455

00:21:38.650 --> 00:21:40.815 The Commission on cancer has

NOTE Confidence: 0.896226884545455

00:21:40.815 --> 00:21:43.500 just in March of this year,

NOTE Confidence: 0.896226884545455

00:21:43.500 --> 00:21:45.456 very recently finally put in their

NOTE Confidence: 0.896226884545455

00:21:45.456 --> 00:21:47.553 first head and neck oncology quality

NOTE Confidence: 0.896226884545455

00:21:47.553 --> 00:21:50.094 metric that's going to be measured at

NOTE Confidence: 0.896226884545455

00:21:50.094 --> 00:21:52.090 every single ACS accredited hospital

NOTE Confidence: 0.896226884545455

00:21:52.090 --> 00:21:54.935 across the country and that's time to

NOTE Confidence: 0.896226884545455

00:21:54.935 --> 00:21:57.360 initiation of post operative radiation.

NOTE Confidence: 0.896226884545455

00:21:57.360 --> 00:21:58.995 This my study didn't really

NOTE Confidence: 0.896226884545455

00:21:58.995 --> 00:22:00.630 show much of an association.

NOTE Confidence: 0.896226884545455

00:22:00.630 --> 00:22:02.592 There's tons of studies focused using

NOTE Confidence: 0.896226884545455

00:22:02.592 --> 00:22:04.577 that as their primary outcome that

NOTE Confidence: 0.896226884545455

00:22:04.577 --> 00:22:06.602 have shown that 42 weeks, 42 days.

NOTE Confidence: 0.896226884545455

00:22:06.602 --> 00:22:10.064 Is a big cut off to affect survival to start

NOTE Confidence: 0.896226884545455

00:22:10.064 --> 00:22:13.340 radiation after head and neck cancer surgery.

NOTE Confidence: 0.896226884545455

00:22:13.340 --> 00:22:14.761 So this is a new quality metric

NOTE Confidence: 0.896226884545455

00:22:14.761 --> 00:22:16.210 that we're all being measured on,

NOTE Confidence: 0.896226884545455

00:22:16.210 --> 00:22:18.973 just so you know. OK.

NOTE Confidence: 0.896226884545455

00:22:18.973 --> 00:22:21.652 So then did volume outcomes,

NOTE Confidence: 0.896226884545455

00:22:21.652 --> 00:22:22.540 did timeliness.

NOTE Confidence: 0.896226884545455

00:22:22.540 --> 00:22:24.916 So then I wanted to look at surgical quality.

NOTE Confidence: 0.896226884545455

00:22:24.920 --> 00:22:25.740 How do we measure that?

NOTE Confidence: 0.896226884545455

00:22:25.740 --> 00:22:26.840 How do we benchmark this?

NOTE Confidence: 0.896226884545455

00:22:26.840 --> 00:22:29.440 How do I know if I'm doing a good job?

NOTE Confidence: 0.896226884545455

00:22:29.440 --> 00:22:30.560 And so we started looking

NOTE Confidence: 0.896226884545455

00:22:30.560 --> 00:22:31.680 at a number of things.

NOTE Confidence: 0.896226884545455

00:22:31.680 --> 00:22:32.825 So this was Ben Judson

NOTE Confidence: 0.896226884545455

00:22:32.825 --> 00:22:34.300 was a lead author on this,

NOTE Confidence: 0.896226884545455

00:22:34.300 --> 00:22:35.602 but our whole team was involved

NOTE Confidence: 0.896226884545455

00:22:35.602 --> 00:22:38.501 where we look, tried to identify.

NOTE Confidence: 0.896226884545455

00:22:38.501 --> 00:22:42.236 Thresholds for lymph node yields.

NOTE Confidence: 0.896226884545455

00:22:42.240 --> 00:22:43.444 For oral cavity cancer,

NOTE Confidence: 0.896226884545455

00:22:43.444 --> 00:22:45.969 so our objective in this study was to

NOTE Confidence: 0.896226884545455

00:22:45.969 --> 00:22:47.614 determine lymph node yield threshold

NOTE Confidence: 0.896226884545455

00:22:47.614 --> 00:22:49.424 and oral cavity squamous cell

NOTE Confidence: 0.896226884545455

00:22:49.424 --> 00:22:51.334 cancer that might impact survival.

NOTE Confidence: 0.896226884545455

00:22:51.340 --> 00:22:54.553 This was a very interesting study because

NOTE Confidence: 0.896226884545455

00:22:54.553 --> 00:22:57.934 we used the NCDB to establish those

NOTE Confidence: 0.896226884545455

00:22:57.934 --> 00:23:01.320 yields and then validated it in SEER.

NOTE Confidence: 0.896226884545455

00:23:01.320 --> 00:23:01.834 And.

NOTE Confidence: 0.896226884545455

00:23:01.834 --> 00:23:03.890 To find the threshold,

NOTE Confidence: 0.896226884545455

00:23:03.890 --> 00:23:07.298 we looked at the clinically end zero oral

NOTE Confidence: 0.896226884545455

00:23:07.298 --> 00:23:09.800 cavity cancers versus the clinically

NOTE Confidence: 0.896226884545455

00:23:09.800 --> 00:23:12.415 and positive oral cavity cancers.

NOTE Confidence: 0.896226884545455

00:23:12.420 --> 00:23:14.650 And.

NOTE Confidence: 0.896226884545455

00:23:14.650 --> 00:23:17.638 Looked at different.

NOTE Confidence: 0.896226884545455

00:23:17.640 --> 00:23:20.232 Hazard ratios based on number of

NOTE Confidence: 0.896226884545455

00:23:20.232 --> 00:23:23.274 the lymph node yield basically and

NOTE Confidence: 0.896226884545455

00:23:23.274 --> 00:23:25.288 after regressive statistical models,

NOTE Confidence: 0.896226884545455

00:23:25.288 --> 00:23:26.864 we basically eventually found

NOTE Confidence: 0.896226884545455

00:23:26.864 --> 00:23:29.078 that there was a difference at

NOTE Confidence: 0.896226884545455

00:23:29.078 --> 00:23:31.073 16 lymph nodes for N0 neck N,

NOTE Confidence: 0.896226884545455

00:23:31.080 --> 00:23:33.786 0 lymph node yields and 26

NOTE Confidence: 0.896226884545455

00:23:33.786 --> 00:23:36.240 for and positive lymph nodes.

NOTE Confidence: 0.896226884545455

00:23:36.240 --> 00:23:39.096 And after adjusting for all sorts of factors,

NOTE Confidence: 0.896226884545455

00:23:39.100 --> 00:23:40.500 we found a survival benefit,

NOTE Confidence: 0.896226884545455

00:23:40.500 --> 00:23:42.400 overall survival and cause specific

NOTE Confidence: 0.896226884545455

00:23:42.400 --> 00:23:44.780 survival based on lymph node yields.

NOTE Confidence: 0.896226884545455

00:23:44.780 --> 00:23:46.448 This is using SEER data so

NOTE Confidence: 0.896226884545455

00:23:46.448 --> 00:23:47.560 we finally had disease.

NOTE Confidence: 0.896226884545455

00:23:47.560 --> 00:23:48.192 Specific survival,

NOTE Confidence: 0.896226884545455

00:23:48.192 --> 00:23:50.088 which we don't have in NCDB.

NOTE Confidence: 0.896226884545455

00:23:50.090 --> 00:23:50.676 So again,

NOTE Confidence: 0.896226884545455

00:23:50.676 --> 00:23:52.727 if you look at these survival curves,

NOTE Confidence: 0.896226884545455

00:23:52.730 --> 00:23:55.970 I think they're quite.

NOTE Confidence: 0.896226884545455

00:23:55.970 --> 00:23:58.430 Not provoking.

NOTE Confidence: 0.896226884545455

00:23:58.430 --> 00:24:00.460 This study came out at the exact

NOTE Confidence: 0.896226884545455

00:24:00.460 --> 00:24:02.285 same maybe like a three months

NOTE Confidence: 0.896226884545455

00:24:02.285 --> 00:24:04.061 after our study and this looked

NOTE Confidence: 0.896226884545455

00:24:04.061 --> 00:24:06.329 at all of head neck cancer and it

NOTE Confidence: 0.896226884545455

00:24:06.329 --> 00:24:07.990 looked at used 18 lymph nodes,

NOTE Confidence: 0.896226884545455

00:24:07.990 --> 00:24:10.400 so kind of an arbitrary number they picked.

NOTE Confidence: 0.896226884545455

00:24:10.400 --> 00:24:12.360 To be honest based on some other

NOTE Confidence: 0.896226884545455

00:24:12.360 --> 00:24:13.507 single institution studies they

NOTE Confidence: 0.896226884545455

00:24:13.507 --> 00:24:14.787 didn't use the same statistical

NOTE Confidence: 0.896226884545455

00:24:14.787 --> 00:24:16.518 rigor that we use in oral cavity

NOTE Confidence: 0.896226884545455

00:24:16.518 --> 00:24:18.044 but it applied to all head neck

NOTE Confidence: 0.896226884545455

00:24:18.050 --> 00:24:20.094 cancer and so it was more applicable

NOTE Confidence: 0.896226884545455

00:24:20.094 --> 00:24:22.390 in 18 has become the big number

NOTE Confidence: 0.896226884545455

00:24:22.390 --> 00:24:24.412 for head and neck cancer partly

NOTE Confidence: 0.896226884545455

00:24:24.480 --> 00:24:26.388 based on this study but again.

NOTE Confidence: 0.896226884545455

00:24:26.390 --> 00:24:28.566 Think what you will just have a #18

NOTE Confidence: 0.896226884545455

00:24:28.566 --> 00:24:32.329 lymph nodes. Big survival difference.

NOTE Confidence: 0.896226884545455

00:24:32.330 --> 00:24:33.320 So that's lymph node yield.

NOTE Confidence: 0.896226884545455

00:24:33.320 --> 00:24:35.091 Then we wanted to look at positive

NOTE Confidence: 0.896226884545455

00:24:35.091 --> 00:24:36.636 margin rates and this is another

NOTE Confidence: 0.896226884545455

00:24:36.636 --> 00:24:38.094 study that we did trying to

NOTE Confidence: 0.896226884545455

00:24:38.094 --> 00:24:39.526 again figure out positive margin

NOTE Confidence: 0.896226884545455

00:24:39.526 --> 00:24:41.224 rates in this country for oral

NOTE Confidence: 0.89442036625

00:24:41.230 --> 00:24:42.902 cavity, squamous cell cancer,

NOTE Confidence: 0.89442036625

00:24:42.902 --> 00:24:44.574 what is the baseline?

NOTE Confidence: 0.89442036625

00:24:44.580 --> 00:24:46.776 And again we found incidence of

NOTE Confidence: 0.89442036625

00:24:46.776 --> 00:24:48.934 positive margins based on this study

NOTE Confidence: 0.89442036625

00:24:48.934 --> 00:24:51.446 and we did look at the volume outcomes

NOTE Confidence: 0.89442036625

00:24:51.519 --> 00:24:53.959 relationship and the facility setting.

NOTE Confidence: 0.89442036625

00:24:53.960 --> 00:24:55.290 And if you were to academic center,

NOTE Confidence: 0.89442036625

00:24:55.290 --> 00:24:57.245 your risk of having positive

NOTE Confidence: 0.89442036625

00:24:57.245 --> 00:24:58.809 margins was significantly less.

NOTE Confidence: 0.89442036625

00:24:58.810 --> 00:25:01.170 20 cases seem to be a good threshold,

NOTE Confidence: 0.89442036625

00:25:01.170 --> 00:25:02.778 but again you see a lot of variety.

NOTE Confidence: 0.89442036625

00:25:02.780 --> 00:25:04.956 Variation across the country.

NOTE Confidence: 0.89442036625

00:25:04.956 --> 00:25:08.980 We also looked at transoral robotic surgery.

NOTE Confidence: 0.89442036625

00:25:08.980 --> 00:25:12.018 So the transoral robotic surgery is FDA

NOTE Confidence: 0.89442036625

00:25:12.018 --> 00:25:14.276 approved for T1T2 oropharynx cancers.

NOTE Confidence: 0.89442036625

00:25:14.276 --> 00:25:18.119 And what I wanted to know was well

NOTE Confidence: 0.89442036625

00:25:18.119 --> 00:25:21.203 what is the positive margin rate

NOTE Confidence: 0.89442036625

00:25:21.203 --> 00:25:23.250 nationally and then what factors are

NOTE Confidence: 0.89442036625

00:25:23.250 --> 00:25:24.474 associated with positive margin.

NOTE Confidence: 0.89442036625

00:25:24.480 --> 00:25:26.250 So we did our standard inclusion

NOTE Confidence: 0.89442036625

00:25:26.250 --> 00:25:26.840 exclusion criteria.

NOTE Confidence: 0.89442036625

00:25:26.840 --> 00:25:29.060 We found about 2600 patients who

NOTE Confidence: 0.89442036625

00:25:29.060 --> 00:25:31.436 had a transoral robotic surgery for

NOTE Confidence: 0.89442036625

00:25:31.436 --> 00:25:33.076 oropharynx squamous cell carcinoma

NOTE Confidence: 0.89442036625

00:25:33.076 --> 00:25:35.649 and what did we find overall.

NOTE Confidence: 0.89442036625

00:25:35.650 --> 00:25:38.121 A 17% positive margin rate in this

NOTE Confidence: 0.89442036625

00:25:38.121 --> 00:25:40.478 country and it varied by T stage

NOTE Confidence: 0.86582888

00:25:42.950 --> 00:25:44.539 T1T2T3T4. You can see that all here.

NOTE Confidence: 0.82068897

00:25:46.700 --> 00:25:47.980 We also found factors

NOTE Confidence: 0.82068897

00:25:47.980 --> 00:25:49.260 associated with positive margin,

NOTE Confidence: 0.82068897

00:25:49.260 --> 00:25:50.886 specifically Lymphovascular invasion,

NOTE Confidence: 0.82068897

00:25:50.886 --> 00:25:53.596 T classification and again facility

NOTE Confidence: 0.82068897

00:25:53.596 --> 00:25:56.285 volume of patients treated at high

NOTE Confidence: 0.82068897

00:25:56.285 --> 00:25:58.990 volume centers were less likely to have.

NOTE Confidence: 0.82068897

00:25:58.990 --> 00:25:59.940 Positive margin,

NOTE Confidence: 0.82068897

00:25:59.940 --> 00:26:02.790 you can see academic centers versus

NOTE Confidence: 0.82068897

00:26:02.790 --> 00:26:05.970 non academic and high volume versus

NOTE Confidence: 0.82068897

00:26:05.970 --> 00:26:08.050 high volume versus low volume.

NOTE Confidence: 0.82068897

00:26:08.050 --> 00:26:10.922 So in the, this is interesting because

NOTE Confidence: 0.82068897

00:26:10.922 --> 00:26:13.190 in the year since FDA approval,

NOTE Confidence: 0.82068897

00:26:13.190 --> 00:26:14.870 what we found is that the positive

NOTE Confidence: 0.82068897

00:26:14.870 --> 00:26:16.478 margin rate for towards the 17%.

NOTE Confidence: 0.82068897

00:26:16.478 --> 00:26:19.845 But if you look at the ECOG 3311 trial,

NOTE Confidence: 0.82068897

00:26:19.845 --> 00:26:22.370 the positive margin rate of

NOTE Confidence: 0.82068897

00:26:22.370 --> 00:26:24.805 credentials academic surgeons was 3.3%.

NOTE Confidence: 0.82068897

00:26:24.805 --> 00:26:27.710 And if you look at pooled data

NOTE Confidence: 0.82068897

00:26:27.710 --> 00:26:30.788 from 3 clinical trials looking at

NOTE Confidence: 0.82068897

00:26:30.788 --> 00:26:32.184 academic single institution studies

NOTE Confidence: 0.82068897

00:26:32.184 --> 00:26:34.050 or even a systematic reviews,

NOTE Confidence: 0.82068897

00:26:34.050 --> 00:26:35.978 we're looking at significantly

NOTE Confidence: 0.82068897

00:26:35.978 --> 00:26:38.388 less than the real world.

NOTE Confidence: 0.82068897

00:26:38.390 --> 00:26:39.479 Positive margin rate,

NOTE Confidence: 0.82068897

00:26:39.479 --> 00:26:42.020 so there is and then this study

NOTE Confidence: 0.82068897

00:26:42.092 --> 00:26:44.532 also showed a linear association

NOTE Confidence: 0.82068897

00:26:44.532 --> 00:26:46.976 between positive margins with T32

NOTE Confidence: 0.82068897

00:26:46.976 --> 00:26:49.738 and T4 tumors greater than 28%.

NOTE Confidence: 0.82068897

00:26:49.738 --> 00:26:51.964 So these patients are the ones that

NOTE Confidence: 0.82068897

00:26:51.964 --> 00:26:54.200 are going on to chemotherapy and

NOTE Confidence: 0.82068897

00:26:54.200 --> 00:26:56.492 radiation and probably had no benefit

NOTE Confidence: 0.82068897

00:26:56.562 --> 00:26:58.917 from transoral robotic surgery based

NOTE Confidence: 0.82068897

00:26:58.917 --> 00:27:01.272 on their current treatment paradigms.

NOTE Confidence: 0.82068897

00:27:01.280 --> 00:27:02.756 We did this for parotid cancer,

NOTE Confidence: 0.82068897

00:27:02.760 --> 00:27:04.836 I won't get into those details.

NOTE Confidence: 0.82068897

00:27:04.840 --> 00:27:07.282 And then this is a interesting

NOTE Confidence: 0.82068897

00:27:07.282 --> 00:27:09.413 study that combined margin rates

NOTE Confidence: 0.82068897

00:27:09.413 --> 00:27:11.945 nationally and lymph node yields and

NOTE Confidence: 0.82068897

00:27:11.945 --> 00:27:14.856 what they looked at was treatment at

NOTE Confidence: 0.82068897

00:27:14.856 --> 00:27:17.214 the try identify that the treatment

NOTE Confidence: 0.82068897

00:27:17.220 --> 00:27:19.140 at hospitals that attain a high

NOTE Confidence: 0.82068897

00:27:19.140 --> 00:27:20.420 rate of negative margins.

NOTE Confidence: 0.82068897

00:27:20.420 --> 00:27:22.204 So if you're if you have if you're

NOTE Confidence: 0.82068897

00:27:22.204 --> 00:27:23.858 a hospital that's that's high rate

NOTE Confidence: 0.82068897

00:27:23.858 --> 00:27:25.298 of negative margins and lymph

NOTE Confidence: 0.82068897

00:27:25.298 --> 00:27:26.777 node yields of more than 18.

NOTE Confidence: 0.82068897

00:27:26.780 --> 00:27:28.682 They found that there is a

NOTE Confidence: 0.82068897

00:27:28.682 --> 00:27:29.633 significant association with

NOTE Confidence: 0.82068897

00:27:29.633 --> 00:27:30.999 improved survival if you did.

NOTE Confidence: 0.82068897

00:27:31.000 --> 00:27:33.262 Both of those and these predicted

NOTE Confidence: 0.82068897

00:27:33.262 --> 00:27:35.429 outcomes independent of those generally

NOTE Confidence: 0.82068897

00:27:35.429 --> 00:27:37.223 modifiable characteristics including

NOTE Confidence: 0.82068897

00:27:37.223 --> 00:27:39.615 the volume outcomes relationship.

NOTE Confidence: 0.82068897

00:27:39.620 --> 00:27:42.608 These were independents of volume of

NOTE Confidence: 0.82068897

00:27:42.608 --> 00:27:45.655 the hospital but only 105 hospitals

NOTE Confidence: 0.82068897

00:27:45.655 --> 00:27:50.095 out of 1000 in in the country achieve

NOTE Confidence: 0.82068897

00:27:50.095 --> 00:27:56.650 negative margins in 90% or more patients and.

NOTE Confidence: 0.82068897

00:27:56.650 --> 00:27:58.379 If you look at lymph node yields

NOTE Confidence: 0.82068897

00:27:58.379 --> 00:27:59.330 of greater than 18,

NOTE Confidence: 0.82068897

00:27:59.330 --> 00:28:04.632 only 199 hospitals out of 1000 consistently

NOTE Confidence: 0.82068897

00:28:04.632 --> 00:28:07.688 achieved lymph node yields of 18 or more,

NOTE Confidence: 0.82068897

00:28:07.690 --> 00:28:09.730 meaning in an 80% or more of that's the case.

NOTE Confidence: 0.82068897

00:28:09.730 --> 00:28:11.210 We're not looking for 100%,

NOTE Confidence: 0.82068897

00:28:11.210 --> 00:28:11.984 you know,

NOTE Confidence: 0.82068897

00:28:11.984 --> 00:28:15.670 80% of cases having 18 or more lymph nodes.

NOTE Confidence: 0.82068897

00:28:15.670 --> 00:28:17.924 So in contrast to the traditional emphasis

NOTE Confidence: 0.82068897

00:28:17.924 --> 00:28:20.219 on the volume outcomes relationship,

NOTE Confidence: 0.82068897

00:28:20.220 --> 00:28:21.930 this showed that negative margins

NOTE Confidence: 0.82068897

00:28:21.930 --> 00:28:24.120 and lymph node yields can actually

NOTE Confidence: 0.82068897

00:28:24.120 --> 00:28:26.610 neutralize the effect of hospital volume.

NOTE Confidence: 0.8307440352

00:28:28.650 --> 00:28:31.010 OK. So then another area that I want

NOTE Confidence: 0.8307440352

00:28:31.010 --> 00:28:33.167 to look into was guideline adherence

NOTE Confidence: 0.8307440352

00:28:33.167 --> 00:28:36.412 and this it came up because of a study

NOTE Confidence: 0.8307440352

00:28:36.412 --> 00:28:39.130 published in 2009 from MD Anderson.

NOTE Confidence: 0.8307440352

00:28:39.130 --> 00:28:42.014 They looked at 107 patients who came

NOTE Confidence: 0.8307440352

00:28:42.014 --> 00:28:43.970 to them for second opinions with

NOTE Confidence: 0.8307440352

00:28:44.035 --> 00:28:45.967 persistent or recurrent disease.

NOTE Confidence: 0.8307440352

00:28:45.970 --> 00:28:47.430 So they've been treated elsewhere.

NOTE Confidence: 0.8307440352

00:28:47.430 --> 00:28:50.076 They had persistent or recurrent disease and

NOTE Confidence: 0.8307440352

00:28:50.080 --> 00:28:51.583 they wanted to look at well what's going on.

NOTE Confidence: 0.8307440352

00:28:51.590 --> 00:28:53.942 What they found was that 43% of

NOTE Confidence: 0.8307440352

00:28:53.942 --> 00:28:56.022 patients had NCCN guideline non

NOTE Confidence: 0.8307440352

00:28:56.022 --> 00:28:58.840 compliance is the term that they used.

NOTE Confidence: 0.8307440352

00:28:58.840 --> 00:29:00.448 And they try to find some

NOTE Confidence: 0.8307440352

00:29:00.448 --> 00:29:01.520 factor associated with it,

NOTE Confidence: 0.8307440352

00:29:01.520 --> 00:29:03.960 even the specific referring physician,

NOTE Confidence: 0.8307440352

00:29:03.960 --> 00:29:04.948 the type of physician,

NOTE Confidence: 0.8307440352

00:29:04.948 --> 00:29:05.936 the subset of disease,

NOTE Confidence: 0.8307440352

00:29:05.940 --> 00:29:07.496 insurance status, age, sex.

NOTE Confidence: 0.8307440352

00:29:07.496 --> 00:29:09.830 And there was nothing that was

NOTE Confidence: 0.8307440352

00:29:09.904 --> 00:29:12.479 significantly associated with why someone

NOTE Confidence: 0.8307440352

00:29:12.479 --> 00:29:15.058 would get NCCN noncompliant treatment.

NOTE Confidence: 0.8307440352

00:29:15.058 --> 00:29:18.166 So I'm in the same vein.

NOTE Confidence: 0.8307440352

00:29:18.170 --> 00:29:19.570 As you can see my theme here is,

NOTE Confidence: 0.8307440352

00:29:19.570 --> 00:29:21.310 well, how's the country doing?

NOTE Confidence: 0.8307440352

00:29:21.310 --> 00:29:22.752 You know we know how single institutions

NOTE Confidence: 0.8307440352

00:29:22.752 --> 00:29:24.150 are doing, but how about the country?

NOTE Confidence: 0.8307440352

00:29:24.150 --> 00:29:25.215 What's the benchmark?

NOTE Confidence: 0.8307440352

00:29:25.215 --> 00:29:26.990 What are we aiming for?

NOTE Confidence: 0.8307440352

00:29:26.990 --> 00:29:29.832 So we undertook a study to look

NOTE Confidence: 0.8307440352

00:29:29.832 --> 00:29:31.990 at national NCCN guideline,

NOTE Confidence: 0.8307440352

00:29:31.990 --> 00:29:33.350 not non adherence rates.

NOTE Confidence: 0.8307440352

00:29:33.350 --> 00:29:35.050 That was the main objective.

NOTE Confidence: 0.8307440352

00:29:35.050 --> 00:29:37.731 We also wanted to look at associations

NOTE Confidence: 0.8307440352

00:29:37.731 --> 00:29:39.779 between non adherence and survival.

NOTE Confidence: 0.8307440352

00:29:39.780 --> 00:29:40.936 In head neck cancer,

NOTE Confidence: 0.8307440352

00:29:40.936 --> 00:29:42.670 we wanted to look at reasons,

NOTE Confidence: 0.8307440352

00:29:42.670 --> 00:29:44.840 reasons for non non adherence

NOTE Confidence: 0.8307440352

00:29:44.840 --> 00:29:47.010 and then factors associated with

NOTE Confidence: 0.8307440352

00:29:47.080 --> 00:29:49.320 non adherence as secondary aims.

NOTE Confidence: 0.8307440352

00:29:49.320 --> 00:29:53.670 So this is our we started with 375,000

NOTE Confidence: 0.8307440352

00:29:53.670 --> 00:29:58.440 patients treated from 2004 to 2013.

NOTE Confidence: 0.8307440352

00:29:58.440 --> 00:30:00.400 And we tried to figure out which ones

NOTE Confidence: 0.8307440352

00:30:00.400 --> 00:30:02.230 were not adhering and which ones

NOTE Confidence: 0.8307440352

00:30:02.230 --> 00:30:03.830 were adherent to NCCN guidelines

NOTE Confidence: 0.8307440352

00:30:03.830 --> 00:30:05.648 and not going into the details.

NOTE Confidence: 0.8307440352

00:30:05.650 --> 00:30:09.025 This is how we define non adherence by site.

NOTE Confidence: 0.8307440352

00:30:09.030 --> 00:30:11.165 It's just look at the NCCN guidelines.

NOTE Confidence: 0.8307440352

00:30:11.170 --> 00:30:13.582 It's actually pretty easy and they

NOTE Confidence: 0.8307440352

00:30:13.582 --> 00:30:15.190 were surprisingly consistent in

NOTE Confidence: 0.8307440352

00:30:15.255 --> 00:30:16.990 all these areas throughout the

NOTE Confidence: 0.8307440352

00:30:16.990 --> 00:30:18.725 entire years of the study.

NOTE Confidence: 0.8307440352

00:30:18.730 --> 00:30:21.642 We've got the guidelines going back to when

NOTE Confidence: 0.8307440352

00:30:21.642 --> 00:30:24.536 this study started actually from the NCCN.

NOTE Confidence: 0.8307440352

00:30:24.540 --> 00:30:26.100 And these are the numbers.

NOTE Confidence: 0.8307440352

00:30:26.100 --> 00:30:28.264 So if you go to 2004 non adherence

NOTE Confidence: 0.8307440352

00:30:28.264 --> 00:30:29.576 rates throughout this country,

NOTE Confidence: 0.8307440352

00:30:29.580 --> 00:30:32.114 it was 30% for head and neck

NOTE Confidence: 0.8307440352

00:30:32.114 --> 00:30:34.068 squamous cell carcinoma by 2013,

NOTE Confidence: 0.8307440352

00:30:34.068 --> 00:30:36.238 we're still looking at almost

NOTE Confidence: 0.8307440352

00:30:36.238 --> 00:30:39.077 1/4 of patients are getting non

NOTE Confidence: 0.8307440352

00:30:39.077 --> 00:30:41.222 adherent guideline non adherent

NOTE Confidence: 0.8307440352

00:30:41.222 --> 00:30:43.438 care within this country.

NOTE Confidence: 0.8307440352

00:30:43.440 --> 00:30:45.701 We looked at his by sub site

NOTE Confidence: 0.8307440352

00:30:45.701 --> 00:30:47.260 for oral cavity cancer,

NOTE Confidence: 0.8307440352

00:30:47.260 --> 00:30:49.744 46% of patients are getting non

NOTE Confidence: 0.8307440352

00:30:49.744 --> 00:30:52.100 adherent care and oral pharynx,

NOTE Confidence: 0.8307440352

00:30:52.100 --> 00:30:54.200 much lower hypopharynx,

NOTE Confidence: 0.8307440352

00:30:54.200 --> 00:30:57.000 larynx and sinuses here.

NOTE Confidence: 0.8307440352

00:30:57.000 --> 00:30:58.620 And then we looked at survival.

NOTE Confidence: 0.8307440352

00:30:58.620 --> 00:31:01.224 So if you have non adherent care

NOTE Confidence: 0.8307440352

00:31:01.224 --> 00:31:03.184 versus adherent care to NCCN

NOTE Confidence: 0.8307440352

00:31:03.184 --> 00:31:05.294 guidelines we found a significant

NOTE Confidence: 0.8307440352

00:31:05.294 --> 00:31:07.200 association with overall survival.

NOTE Confidence: 0.8307440352

00:31:07.200 --> 00:31:09.516 Again a multivariate analysis

NOTE Confidence: 0.8307440352

00:31:09.516 --> 00:31:12.990 controlling for all the typical factors.

NOTE Confidence: 0.8307440352

00:31:12.990 --> 00:31:15.223 And then we looked at factors associated

NOTE Confidence: 0.8307440352

00:31:15.223 --> 00:31:16.780 with guideline not adherence,

NOTE Confidence: 0.8307440352

00:31:16.780 --> 00:31:18.920 black race, age over 65,

NOTE Confidence: 0.8307440352

00:31:18.920 --> 00:31:20.940 comorbidity, non private insurance,

NOTE Confidence: 0.8307440352

00:31:20.940 --> 00:31:23.970 higher T stage and then being

NOTE Confidence: 0.8307440352

00:31:24.055 --> 00:31:26.700 treated and non academic facility.

NOTE Confidence: 0.8307440352

00:31:26.700 --> 00:31:29.710 So I like this quote because it

NOTE Confidence: 0.8307440352

00:31:29.710 --> 00:31:31.662 really talks about highlights why

NOTE Confidence: 0.8307440352

00:31:31.662 --> 00:31:33.648 this is so important when clinicians,

NOTE Confidence: 0.8307440352

00:31:33.650 --> 00:31:35.675 clinicians already know the information

NOTE Confidence: 0.8307440352

00:31:35.675 --> 00:31:37.700 contained in guidelines and this

NOTE Confidence: 0.8307440352

00:31:37.761 --> 00:31:39.540 was years ago, this was 1999,

NOTE Confidence: 0.8307440352

00:31:39.540 --> 00:31:40.860 now they're so accessible.

NOTE Confidence: 0.752328720909091

00:31:40.860 --> 00:31:42.127 So I'm going to extend this to

NOTE Confidence: 0.752328720909091

00:31:42.127 --> 00:31:43.130 say when physical clinicians.

NOTE Confidence: 0.752328720909091

00:31:43.130 --> 00:31:45.212 Know how to get the guidelines

NOTE Confidence: 0.752328720909091

00:31:45.212 --> 00:31:47.380 within minutes at their fingertips.

NOTE Confidence: 0.752328720909091

00:31:47.380 --> 00:31:49.732 Those clinicians who want to improve

NOTE Confidence: 0.752328720909091

00:31:49.732 --> 00:31:51.788 quality need to redirect their

NOTE Confidence: 0.752328720909091

00:31:51.788 --> 00:31:53.878 efforts to identify the barriers.

NOTE Confidence: 0.752328720909091

00:31:53.880 --> 00:31:55.420 It's not knowledge that stand

NOTE Confidence: 0.752328720909091

00:31:55.420 --> 00:31:57.440 in the way of behavior change.

NOTE Confidence: 0.752328720909091

00:31:57.440 --> 00:32:00.410 So by addressing the barriers that

NOTE Confidence: 0.752328720909091

00:32:00.410 --> 00:32:03.300 prevent adherence to NCCN guidelines

NOTE Confidence: 0.752328720909091

00:32:03.300 --> 00:32:04.816 and their treatment protocols,

NOTE Confidence: 0.752328720909091

00:32:04.816 --> 00:32:07.615 I think there is a great opportunity

NOTE Confidence: 0.752328720909091

00:32:07.615 --> 00:32:09.855 for us to improve survival.

NOTE Confidence: 0.752328720909091

00:32:09.860 --> 00:32:12.308 I would even say a responsibility.

NOTE Confidence: 0.752328720909091

00:32:12.310 --> 00:32:14.694 Final area of research I wanted to look

NOTE Confidence: 0.752328720909091

00:32:14.694 --> 00:32:17.428 at and I haven't done much in this yet.

NOTE Confidence: 0.752328720909091

00:32:17.430 --> 00:32:20.134 So I'm going to quote a a different

NOTE Confidence: 0.752328720909091

00:32:20.134 --> 00:32:22.678 study by Bevin you who's the chair

NOTE Confidence: 0.752328720909091

00:32:22.678 --> 00:32:24.688 at Minnesota University of Minnesota

NOTE Confidence: 0.752328720909091

00:32:24.688 --> 00:32:27.599 and he was actually a Robert Wood

NOTE Confidence: 0.752328720909091

00:32:27.599 --> 00:32:30.058 Johnson scholar here at Yale and very

NOTE Confidence: 0.752328720909091

00:32:30.058 --> 00:32:31.628 well known and outcomes research.

NOTE Confidence: 0.752328720909091

00:32:31.630 --> 00:32:33.640 And that cancer he just wanted,

NOTE Confidence: 0.752328720909091

00:32:33.640 --> 00:32:35.472 this was a spoke to him about his

NOTE Confidence: 0.752328720909091

00:32:35.472 --> 00:32:36.695 very controversial study when he

NOTE Confidence: 0.752328720909091

00:32:36.695 --> 00:32:38.123 published this because it was within

NOTE Confidence: 0.752328720909091

00:32:38.123 --> 00:32:39.579 his own network of patients that

NOTE Confidence: 0.752328720909091

00:32:39.579 --> 00:32:41.080 he was seeing looking at patients

NOTE Confidence: 0.752328720909091

00:32:41.080 --> 00:32:42.730 who were treated with radiation.

NOTE Confidence: 0.752328720909091

00:32:42.730 --> 00:32:44.692 Therapy at the academic center versus

NOTE Confidence: 0.752328720909091

00:32:44.692 --> 00:32:46.746 the non academic center and found

NOTE Confidence: 0.752328720909091

00:32:46.746 --> 00:32:48.118 significant differences in five

NOTE Confidence: 0.752328720909091

00:32:48.118 --> 00:32:50.319 year survival on there were similar

NOTE Confidence: 0.752328720909091

00:32:50.319 --> 00:32:51.855 rates of treatment completion,

NOTE Confidence: 0.752328720909091

00:32:51.860 --> 00:32:54.100 similar rates of treatment breaks,

NOTE Confidence: 0.752328720909091

00:32:54.100 --> 00:32:56.760 more advanced cancers at the academic center.

NOTE Confidence: 0.752328720909091

00:32:56.760 --> 00:32:59.300 Multivariate analysis really you

NOTE Confidence: 0.752328720909091

00:32:59.300 --> 00:33:01.840 know statistically rigorous study

NOTE Confidence: 0.752328720909091

00:33:01.840 --> 00:33:05.476 couldn't say why but there was.

NOTE Confidence: 0.752328720909091

00:33:05.480 --> 00:33:05.770 OK.

NOTE Confidence: 0.752328720909091

00:33:05.770 --> 00:33:08.090 So the last thing I want to talk

NOTE Confidence: 0.752328720909091

00:33:08.090 --> 00:33:10.523 about is really this concept of bench

NOTE Confidence: 0.752328720909091

00:33:10.523 --> 00:33:12.919 to bedside for the patient centered

NOTE Confidence: 0.752328720909091

00:33:12.919 --> 00:33:15.269 outcomes researcher and that's what

NOTE Confidence: 0.752328720909091

00:33:15.269 --> 00:33:18.558 I've been doing over the last year or so.

NOTE Confidence: 0.752328720909091

00:33:18.560 --> 00:33:20.594 What I wanted to do now is take all

NOTE Confidence: 0.752328720909091

00:33:20.594 --> 00:33:22.638 this national benchmark data we had.

NOTE Confidence: 0.752328720909091

00:33:22.640 --> 00:33:24.180 We knew what good quality was or

NOTE Confidence: 0.752328720909091

00:33:24.180 --> 00:33:25.944 at least what the standard of care

NOTE Confidence: 0.752328720909091

00:33:25.944 --> 00:33:26.996 was across the country.

NOTE Confidence: 0.752328720909091

00:33:27.000 --> 00:33:28.244 I said, hey, how,

NOTE Confidence: 0.752328720909091

00:33:28.244 --> 00:33:31.060 how is Yale New Haven Health system doing?

NOTE Confidence: 0.752328720909091

00:33:31.060 --> 00:33:35.552 And so this is what we did, we looked.

NOTE Confidence: 0.752328720909091

00:33:35.552 --> 00:33:38.708 At tumor registry data from Yale,

NOTE Confidence: 0.752328720909091

00:33:38.710 --> 00:33:40.550 New Haven Hospital, Bridgeport Hospital,

NOTE Confidence: 0.752328720909091

00:33:40.550 --> 00:33:42.570 Greenwich Hospital, L&M and Westerly.

NOTE Confidence: 0.752328720909091

00:33:42.570 --> 00:33:44.747 So our entire network and we got

NOTE Confidence: 0.752328720909091

00:33:44.747 --> 00:33:46.798 all the analytic oral cavity cases

NOTE Confidence: 0.752328720909091

00:33:46.798 --> 00:33:47.915 from 2012 to 2018.

NOTE Confidence: 0.752328720909091

00:33:47.915 --> 00:33:49.700 And we looked at a number of

NOTE Confidence: 0.752328720909091

00:33:49.762 --> 00:33:52.054 these quality metrics for which we

NOTE Confidence: 0.752328720909091

00:33:52.054 --> 00:33:53.582 now had national benchmarks.

NOTE Confidence: 0.752328720909091

00:33:53.590 --> 00:33:55.414 And we looked at the positive margin rate.

NOTE Confidence: 0.752328720909091

00:33:55.420 --> 00:33:57.526 We looked at lymph node yields

NOTE Confidence: 0.752328720909091

00:33:57.526 --> 00:34:00.058 greater than or equal to 16 adherence

NOTE Confidence: 0.752328720909091

00:34:00.058 --> 00:34:02.515 rates to NCCN guidelines and time to

NOTE Confidence: 0.752328720909091

00:34:02.590 --> 00:34:04.890 adjuvant therapy within six weeks.

NOTE Confidence: 0.752328720909091

00:34:04.890 --> 00:34:06.630 So we started with 500 patients

NOTE Confidence: 0.752328720909091

00:34:06.630 --> 00:34:08.991 and these were the three groups of

NOTE Confidence: 0.752328720909091

00:34:08.991 --> 00:34:10.881 patients that were treated academical

NOTE Confidence: 0.752328720909091

00:34:10.881 --> 00:34:13.048 surgery and radiation or all their

NOTE Confidence: 0.752328720909091

00:34:13.048 --> 00:34:14.704 treatment if there was no radiation

NOTE Confidence: 0.752328720909091

00:34:14.704 --> 00:34:16.399 at the academic only center,

NOTE Confidence: 0.752328720909091

00:34:16.400 --> 00:34:17.895 Community Center being the opposite

NOTE Confidence: 0.752328720909091

00:34:17.895 --> 00:34:19.740 end and then the combined group.

NOTE Confidence: 0.752328720909091

00:34:19.740 --> 00:34:21.938 So they had in this combined group,

NOTE Confidence: 0.752328720909091

00:34:21.940 --> 00:34:23.501 it was always surgery at the main

NOTE Confidence: 0.752328720909091

00:34:23.501 --> 00:34:24.630 center and radiation elsewhere.

NOTE Confidence: 0.752328720909091

00:34:24.630 --> 00:34:28.338 For some reason it didn't go the other way.

NOTE Confidence: 0.752328720909091

00:34:28.340 --> 00:34:30.806 And these were our key findings.

NOTE Confidence: 0.752328720909091

00:34:30.810 --> 00:34:33.717 There was a higher positive surgical

NOTE Confidence: 0.752328720909091

00:34:33.717 --> 00:34:35.752 margin rate within our health

NOTE Confidence: 0.752328720909091

00:34:35.752 --> 00:34:38.110 system at the Community hospitals,

NOTE Confidence: 0.833967161111111

00:34:38.110 --> 00:34:39.136 12% versus 2.5%.

NOTE Confidence: 0.833967161111111

00:34:39.136 --> 00:34:41.188 There was a lower likelihood to

NOTE Confidence: 0.833967161111111

00:34:41.188 --> 00:34:43.412 meet that bottom lymph node yield

NOTE Confidence: 0.833967161111111

00:34:43.412 --> 00:34:46.008 threshold of 16 lymph nodes and a

NOTE Confidence: 0.833967161111111

00:34:46.008 --> 00:34:47.808 neck dissection at the community,

NOTE Confidence: 0.833967161111111

00:34:47.810 --> 00:34:48.887 59% versus 90%.

NOTE Confidence: 0.833967161111111

00:34:48.887 --> 00:34:50.682 There were decreased rates of

NOTE Confidence: 0.833967161111111

00:34:50.682 --> 00:34:53.035 adherence to NCC and guidelines in

NOTE Confidence: 0.833967161111111

00:34:53.035 --> 00:34:54.995 other hospitals within our Network,

NOTE Confidence: 0.833967161111111

00:34:55.000 --> 00:34:57.778 76 versus 86% and adjuvant radiation

NOTE Confidence: 0.833967161111111

00:34:57.778 --> 00:35:00.930 therapy within six weeks it was the same.

NOTE Confidence: 0.833967161111111

00:35:00.930 --> 00:35:03.314 If you were all academic or all community,

NOTE Confidence: 0.833967161111111

00:35:03.320 --> 00:35:05.060 but if you fragmented your care,

NOTE Confidence: 0.833967161111111

00:35:05.060 --> 00:35:06.852 it was significantly less.

NOTE Confidence: 0.833967161111111

00:35:06.852 --> 00:35:09.640 22% of patients, when fragmenting their care,

NOTE Confidence: 0.833967161111111

00:35:09.640 --> 00:35:13.786 received radiation therapy within six weeks.

NOTE Confidence: 0.833967161111111

00:35:13.790 --> 00:35:15.490 So it sounded negative originally,

NOTE Confidence: 0.833967161111111

00:35:15.490 --> 00:35:16.406 but then we said, hey, well,

NOTE Confidence: 0.833967161111111

00:35:16.406 --> 00:35:17.510 we have national benchmarks.

NOTE Confidence: 0.833967161111111

00:35:17.510 --> 00:35:18.286 How are we doing?

NOTE Confidence: 0.833967161111111

00:35:18.286 --> 00:35:19.450 It turns out that we're actually

NOTE Confidence: 0.833967161111111

00:35:19.491 --> 00:35:20.889 doing pretty good within the system.

NOTE Confidence: 0.833967161111111

00:35:20.890 --> 00:35:23.446 The, our numbers are on par with the nation.

NOTE Confidence: 0.833967161111111

00:35:23.450 --> 00:35:25.564 We're not any worse than the national

NOTE Confidence: 0.833967161111111

00:35:25.564 --> 00:35:27.630 benchmarks in our community hospitals.

NOTE Confidence: 0.833967161111111

00:35:27.630 --> 00:35:29.254 If you look at the national positive

NOTE Confidence: 0.833967161111111

00:35:29.254 --> 00:35:30.629 margin rates based on our studies,

NOTE Confidence: 0.833967161111111

00:35:30.630 --> 00:35:33.436 oral cavity cancer is almost 13%.

NOTE Confidence: 0.833967161111111

00:35:33.436 --> 00:35:36.866 Our community partners are 12%.

NOTE Confidence: 0.833967161111111

00:35:36.870 --> 00:35:39.033 I mean our academic center is 2.5%.

NOTE Confidence: 0.833967161111111

00:35:39.033 --> 00:35:40.448 So that's a significant difference,

NOTE Confidence: 0.833967161111111

00:35:40.450 --> 00:35:43.946 but but the system is.

NOTE Confidence: 0.833967161111111

00:35:43.946 --> 00:35:45.518 Not doing horrible.

NOTE Confidence: 0.833967161111111

00:35:45.520 --> 00:35:47.728 There's a lot of reasons that there could,

NOTE Confidence: 0.833967161111111

00:35:47.730 --> 00:35:50.016 you know, there could be differences.

NOTE Confidence: 0.833967161111111

00:35:50.020 --> 00:35:52.378 For example, availability of frozen section,

NOTE Confidence: 0.833967161111111

00:35:52.380 --> 00:35:54.380 access to advanced reconstructive surgery,

NOTE Confidence: 0.833967161111111

00:35:54.380 --> 00:35:57.996 we can get more aggressive on the resection,

NOTE Confidence: 0.833967161111111

00:35:58.000 --> 00:35:59.458 constant communication between

NOTE Confidence: 0.833967161111111

00:35:59.458 --> 00:36:00.916 pathologists and surgeons,

NOTE Confidence: 0.833967161111111

00:36:00.920 --> 00:36:02.300 presence of trainees,

NOTE Confidence: 0.833967161111111

00:36:02.300 --> 00:36:04.140 perhaps higher case volumes,

NOTE Confidence: 0.833967161111111

00:36:04.140 --> 00:36:06.359 how margins are taken by surgeons or

NOTE Confidence: 0.833967161111111

00:36:06.359 --> 00:36:08.259 how they're assessed by pathologists.

NOTE Confidence: 0.833967161111111

00:36:08.260 --> 00:36:10.540 Countless reasons this for this,

NOTE Confidence: 0.833967161111111

00:36:10.540 --> 00:36:12.805 all theoretical.

NOTE Confidence: 0.833967161111111

00:36:12.805 --> 00:36:15.415 The other point about positive margins

NOTE Confidence: 0.833967161111111

00:36:15.415 --> 00:36:17.509 other than affecting survival is

NOTE Confidence: 0.833967161111111

00:36:17.509 --> 00:36:20.043 that it can often lead to unnecessary

NOTE Confidence: 0.833967161111111

00:36:20.043 --> 00:36:22.134 escalation of cares like that oropharynx

NOTE Confidence: 0.833967161111111

00:36:22.134 --> 00:36:24.132 cancer case that I showed you.

NOTE Confidence: 0.833967161111111

00:36:24.132 --> 00:36:26.124 But in this cohort of patients

NOTE Confidence: 0.833967161111111

00:36:26.124 --> 00:36:27.120 within our system,

NOTE Confidence: 0.833967161111111

00:36:27.120 --> 00:36:29.790 two patients in the Community only

NOTE Confidence: 0.833967161111111

00:36:29.790 --> 00:36:31.570 group received adjuvant chemotherapy

NOTE Confidence: 0.833967161111111

00:36:31.641 --> 00:36:34.089 plus radiation for early stage disease.

NOTE Confidence: 0.833967161111111

00:36:34.090 --> 00:36:36.028 So stage 1/2 cancer positive margin

NOTE Confidence: 0.833967161111111

00:36:36.028 --> 00:36:38.150 went on to chemotherapy and radiation.

NOTE Confidence: 0.833967161111111

00:36:38.150 --> 00:36:41.398 There's no LINOP and I in those cases.

NOTE Confidence: 0.833967161111111

00:36:41.400 --> 00:36:43.968 And when you look at non adherence rates.

NOTE Confidence: 0.833967161111111

00:36:43.970 --> 00:36:46.508 Again nationally for all of cancer,

NOTE Confidence: 0.833967161111111

00:36:46.510 --> 00:36:48.418 26% of patients for head neck

NOTE Confidence: 0.833967161111111

00:36:48.418 --> 00:36:50.161 cancer nationally are non adherence

NOTE Confidence: 0.833967161111111

00:36:50.161 --> 00:36:52.186 with guidelines for oral cancer.

NOTE Confidence: 0.833967161111111

00:36:52.190 --> 00:36:54.212 If you'll recall based on our

NOTE Confidence: 0.833967161111111

00:36:54.212 --> 00:36:54.886 previous studies,

NOTE Confidence: 0.833967161111111

00:36:54.890 --> 00:36:57.362 46% of patients are non adherent

NOTE Confidence: 0.833967161111111

00:36:57.362 --> 00:36:58.598 in our community.

NOTE Confidence: 0.833967161111111

00:36:58.600 --> 00:37:00.182 Yale New Haven Health System is doing

NOTE Confidence: 0.833967161111111

00:37:00.182 --> 00:37:01.987 pretty good when you look at national data,

NOTE Confidence: 0.833967161111111

00:37:01.990 --> 00:37:03.680 much better than than the

NOTE Confidence: 0.833967161111111

00:37:03.680 --> 00:37:05.370 country for oral cavity cancer.

NOTE Confidence: 0.833967161111111

00:37:05.370 --> 00:37:07.466 But if you look at the academic center,

NOTE Confidence: 0.833967161111111

00:37:07.470 --> 00:37:09.165 we see a significant difference

NOTE Confidence: 0.833967161111111

00:37:09.165 --> 00:37:11.110 and again no one looking for

NOTE Confidence: 0.833967161111111

00:37:11.110 --> 00:37:12.558 100% adherence to guidelines,

NOTE Confidence: 0.833967161111111

00:37:12.558 --> 00:37:14.570 that's not possible, a lot of reasons,

NOTE Confidence: 0.833967161111111

00:37:14.570 --> 00:37:15.260 sometimes you can't.

NOTE Confidence: 0.833967161111111

00:37:15.260 --> 00:37:16.604 Adherence to guidelines,

NOTE Confidence: 0.833967161111111

00:37:16.604 --> 00:37:19.292 but we're looking to benchmark against

NOTE Confidence: 0.833967161111111

00:37:19.292 --> 00:37:21.889 the country and against each other.

NOTE Confidence: 0.833967161111111

00:37:21.890 --> 00:37:22.134 So.

NOTE Confidence: 0.833967161111111

00:37:22.134 --> 00:37:23.598 We looked at lymph node yields

NOTE Confidence: 0.833967161111111

00:37:23.598 --> 00:37:25.638 and this is where things got a

NOTE Confidence: 0.833967161111111

00:37:25.638 --> 00:37:26.886 little bit more interesting.

NOTE Confidence: 0.833967161111111

00:37:26.890 --> 00:37:27.255 Nationally,

NOTE Confidence: 0.833967161111111

00:37:27.255 --> 00:37:30.175 greater than or equal to 16 lymph nodes,

NOTE Confidence: 0.833967161111111

00:37:30.180 --> 00:37:31.620 70, we used 18.

NOTE Confidence: 0.833967161111111

00:37:31.620 --> 00:37:34.230 That's what we have for national data.

NOTE Confidence: 0.833967161111111

00:37:34.230 --> 00:37:36.386 70% of patients have more than 18

NOTE Confidence: 0.833967161111111

00:37:36.386 --> 00:37:38.850 lymph nodes in their neck dissections.

NOTE Confidence: 0.833967161111111

00:37:38.850 --> 00:37:39.882 In our community,

NOTE Confidence: 0.833967161111111

00:37:39.882 --> 00:37:41.946 59% and in the academic center,

NOTE Confidence: 0.8500174075

00:37:41.950 --> 00:37:44.883 90%. And you can see the huge

NOTE Confidence: 0.8500174075

00:37:44.883 --> 00:37:47.840 variation as well everywhere really.

NOTE Confidence: 0.8500174075

00:37:47.840 --> 00:37:49.286 Again, there's multiple reasons for this.

NOTE Confidence: 0.8500174075

00:37:49.290 --> 00:37:50.662 How pathologists count limp,

NOTE Confidence: 0.8500174075

00:37:50.662 --> 00:37:52.377 it's not all surgical related,

NOTE Confidence: 0.8500174075

00:37:52.380 --> 00:37:54.400 how pathologists count lymph nodes,

NOTE Confidence: 0.8500174075

00:37:54.400 --> 00:37:56.409 but maybe also the quality of the

NOTE Confidence: 0.8500174075

00:37:56.409 --> 00:37:57.777 neck dissection and this these

NOTE Confidence: 0.8500174075

00:37:57.777 --> 00:37:59.553 can sell a lot of these can be

NOTE Confidence: 0.8500174075

00:37:59.615 --> 00:38:01.190 modifiable treatment factors.

NOTE Confidence: 0.8500174075

00:38:01.190 --> 00:38:02.230 So in this study,

NOTE Confidence: 0.8500174075

00:38:02.230 --> 00:38:03.790 we found that treatment of oral

NOTE Confidence: 0.8500174075

00:38:03.849 --> 00:38:05.654 cavity cancer at Community facilities

NOTE Confidence: 0.8500174075

00:38:05.654 --> 00:38:07.891 within our system may increase the

NOTE Confidence: 0.8500174075

00:38:07.891 --> 00:38:09.379 likelihood of positive margins,

NOTE Confidence: 0.8500174075

00:38:09.380 --> 00:38:10.810 lower likelihood of adequate lymph

NOTE Confidence: 0.8500174075

00:38:10.810 --> 00:38:12.240 node yields and decrease adherence.

NOTE Confidence: 0.8500174075

00:38:12.240 --> 00:38:13.068 NCCN guidelines.

NOTE Confidence: 0.8500174075

00:38:13.068 --> 00:38:16.326 Not only that, but if you fragment your care,

NOTE Confidence: 0.8500174075

00:38:16.330 --> 00:38:18.922 you can have a lower likelihood

NOTE Confidence: 0.8500174075

00:38:18.922 --> 00:38:20.650 of achieving radiation initiation

NOTE Confidence: 0.8500174075

00:38:20.719 --> 00:38:21.850 within six weeks.

NOTE Confidence: 0.8500174075

00:38:21.850 --> 00:38:24.328 A lot of problems with this study.

NOTE Confidence: 0.8500174075

00:38:24.330 --> 00:38:26.022 I think it's still very informative

NOTE Confidence: 0.8500174075

00:38:26.022 --> 00:38:27.989 and very useful to make us better,

NOTE Confidence: 0.8500174075

00:38:27.990 --> 00:38:29.553 but you know,

NOTE Confidence: 0.8500174075

00:38:29.553 --> 00:38:31.637 data were collected retrospectively.

NOTE Confidence: 0.8500174075

00:38:31.640 --> 00:38:34.424 We found a lot of differences in process

NOTE Confidence: 0.8500174075

00:38:34.424 --> 00:38:36.463 related metrics and other studies

NOTE Confidence: 0.8500174075

00:38:36.463 --> 00:38:38.598 have shown association with survival.

NOTE Confidence: 0.8500174075

00:38:38.600 --> 00:38:39.842 This study in and of itself

NOTE Confidence: 0.8500174075

00:38:39.842 --> 00:38:41.283 did not show that there was

NOTE Confidence: 0.8500174075

00:38:41.283 --> 00:38:42.415 any difference in survival,

NOTE Confidence: 0.8500174075

00:38:42.420 --> 00:38:43.730 definitely not powered for this.

NOTE Confidence: 0.8500174075

00:38:43.730 --> 00:38:45.704 It was not the main outcome and

NOTE Confidence: 0.8500174075

00:38:45.704 --> 00:38:47.220 of course there are socio.

NOTE Confidence: 0.8500174075

00:38:47.220 --> 00:38:49.392 I recognize there are socioeconomic and

NOTE Confidence: 0.8500174075

00:38:49.392 --> 00:38:51.691 other factors that can impact patient

NOTE Confidence: 0.8500174075

00:38:51.691 --> 00:38:54.055 care delivery and confound the results.

NOTE Confidence: 0.8500174075

00:38:54.060 --> 00:38:54.624 For example,

NOTE Confidence: 0.8500174075

00:38:54.624 --> 00:38:56.034 patients who are willing to

NOTE Confidence: 0.8500174075

00:38:56.034 --> 00:38:57.988 travel to the academic centers may

NOTE Confidence: 0.8500174075

00:38:57.988 --> 00:38:59.388 differ systematically from those

NOTE Confidence: 0.8500174075

00:38:59.388 --> 00:39:01.278 who seek care closer to home.

NOTE Confidence: 0.781975840526316

00:39:03.770 --> 00:39:05.810 Since then, I'm not going to read all

NOTE Confidence: 0.781975840526316

00:39:05.810 --> 00:39:07.738 this and tell you this is historic

NOTE Confidence: 0.781975840526316

00:39:07.738 --> 00:39:10.762 data going back to 2012 to 2018.

NOTE Confidence: 0.781975840526316

00:39:10.762 --> 00:39:13.448 Smilo has, I think, been aware of this.

NOTE Confidence: 0.781975840526316

00:39:13.450 --> 00:39:14.974 The leadership has been aware of

NOTE Confidence: 0.781975840526316

00:39:14.974 --> 00:39:16.781 this and there's been a lot of

NOTE Confidence: 0.781975840526316

00:39:16.781 --> 00:39:18.251 things that have changed to improve

NOTE Confidence: 0.781975840526316

00:39:18.251 --> 00:39:19.868 quality even in the last five years.

NOTE Confidence: 0.781975840526316

00:39:19.870 --> 00:39:21.499 And I'd love to do this study and I

NOTE Confidence: 0.781975840526316

00:39:21.499 --> 00:39:23.221 will do the study a few years from now

NOTE Confidence: 0.781975840526316

00:39:23.221 --> 00:39:25.048 as well and see how much better we are.

NOTE Confidence: 0.781975840526316

00:39:25.050 --> 00:39:27.110 For example, oncology care pathways

NOTE Confidence: 0.781975840526316

00:39:27.110 --> 00:39:28.346 have been initiated.

NOTE Confidence: 0.781975840526316

00:39:28.350 --> 00:39:30.885 Community hospitals and disease teams

NOTE Confidence: 0.781975840526316

00:39:30.885 --> 00:39:34.020 have been better integrated at SMILOW.

NOTE Confidence: 0.781975840526316

00:39:34.020 --> 00:39:36.300 We are creating local disease teams,

NOTE Confidence: 0.781975840526316

00:39:36.300 --> 00:39:38.560 experts at community hospitals primarily

NOTE Confidence: 0.781975840526316

00:39:38.560 --> 00:39:41.700 dedicated to head and neck cancer care.

NOTE Confidence: 0.781975840526316

00:39:41.700 --> 00:39:44.526 Physicians at the academic Center have

NOTE Confidence: 0.781975840526316

00:39:44.526 --> 00:39:46.410 established clinics in surrounding

NOTE Confidence: 0.781975840526316

00:39:46.480 --> 00:39:47.320 care centers.

NOTE Confidence: 0.781975840526316

00:39:47.320 --> 00:39:49.636 We're trying to bring culture from

NOTE Confidence: 0.781975840526316

00:39:49.636 --> 00:39:52.562 one place to another as well and

NOTE Confidence: 0.781975840526316

00:39:52.562 --> 00:39:54.302 better integrating and aligning

NOTE Confidence: 0.781975840526316

00:39:54.302 --> 00:39:56.600 culture across our care centers.

NOTE Confidence: 0.781975840526316

00:39:56.600 --> 00:39:57.092 Of course,

NOTE Confidence: 0.781975840526316

00:39:57.092 --> 00:39:58.814 advancement in ER has helped a lot.

NOTE Confidence: 0.781975840526316

00:39:58.820 --> 00:40:01.196 This is going back to 2012

NOTE Confidence: 0.781975840526316

00:40:01.196 --> 00:40:03.450 when the ER was first.

NOTE Confidence: 0.781975840526316

00:40:03.450 --> 00:40:05.890 Initiated in the health system,

NOTE Confidence: 0.781975840526316

00:40:05.890 --> 00:40:07.720 we have more clinical trials and

NOTE Confidence: 0.781975840526316

00:40:07.720 --> 00:40:09.307 they're offered at care centers

NOTE Confidence: 0.781975840526316

00:40:09.307 --> 00:40:11.137 and there's a lot of other

NOTE Confidence: 0.781975840526316

00:40:11.137 --> 00:40:12.550 improvements that are ongoing.

NOTE Confidence: 0.781975840526316

00:40:12.550 --> 00:40:14.818 And I think delivering high quality

NOTE Confidence: 0.781975840526316

00:40:14.818 --> 00:40:17.331 care across the system for head and

NOTE Confidence: 0.781975840526316

00:40:17.331 --> 00:40:19.515 neck cancer is an important part of

NOTE Confidence: 0.781975840526316

00:40:19.589 --> 00:40:21.869 our systems growth and integration.

NOTE Confidence: 0.887644101111111

00:40:23.980 --> 00:40:26.476 So really what I think is that integrated

NOTE Confidence: 0.887644101111111

00:40:26.476 --> 00:40:28.451 health systems can leverage the strength

NOTE Confidence: 0.887644101111111

00:40:28.451 --> 00:40:30.767 of the academic center to figure out

NOTE Confidence: 0.887644101111111

00:40:30.767 --> 00:40:32.675 a way to disseminate best practices,

NOTE Confidence: 0.887644101111111

00:40:32.680 --> 00:40:34.540 to break those structural barriers

NOTE Confidence: 0.887644101111111

00:40:34.540 --> 00:40:36.566 within our network, to improve patient

NOTE Confidence: 0.887644101111111

00:40:36.566 --> 00:40:38.378 care and bring high quality care,

NOTE Confidence: 0.887644101111111

00:40:38.380 --> 00:40:39.510 whether it's closer to home

NOTE Confidence: 0.887644101111111

00:40:39.510 --> 00:40:40.640 or bring the patients here.

NOTE Confidence: 0.887644101111111

00:40:40.640 --> 00:40:42.782 But we can do this and dare I say

NOTE Confidence: 0.887644101111111

00:40:42.782 --> 00:40:45.277 we have a responsibility to do this,

NOTE Confidence: 0.887644101111111

00:40:45.280 --> 00:40:48.052 but how are we going to overcome

NOTE Confidence: 0.887644101111111

00:40:48.052 --> 00:40:49.240 these structural barriers?

NOTE Confidence: 0.887644101111111

00:40:49.240 --> 00:40:51.907 So bringing it back to the patient.

NOTE Confidence: 0.887644101111111

00:40:51.910 --> 00:40:52.876 You know, processing,

NOTE Confidence: 0.887644101111111

00:40:52.876 --> 00:40:54.164 quality care improves survival.

NOTE Confidence: 0.887644101111111

00:40:54.170 --> 00:40:55.930 I told you that.

NOTE Confidence: 0.887644101111111

00:40:55.930 --> 00:40:57.250 But quality care.

NOTE Confidence: 0.887644101111111

00:40:57.250 --> 00:40:59.728 It means more than just the

NOTE Confidence: 0.887644101111111

00:40:59.728 --> 00:41:02.270 process of care and survival.

NOTE Confidence: 0.887644101111111

00:41:02.270 --> 00:41:06.550 It means more than just being cancer free.

NOTE Confidence: 0.887644101111111

00:41:06.550 --> 00:41:06.780 Say

NOTE Confidence: 0.98688436

00:41:09.310 --> 00:41:13.299 1234512345. Left and right.

NOTE Confidence: 0.98688436

00:41:13.300 --> 00:41:14.280 Just to the outside.

NOTE Confidence: 0.879694466

00:41:17.130 --> 00:41:19.250 Hi, this is **** Morris.

NOTE Confidence: 0.879694466

00:41:19.250 --> 00:41:21.442 You may have seen me on some of

NOTE Confidence: 0.879694466

00:41:21.442 --> 00:41:23.209 my Facebook or Internet posts.

NOTE Confidence: 0.879694466

00:41:23.210 --> 00:41:26.717 I had tongue cancer and doctor Mayer.

NOTE Confidence: 0.879694466

00:41:26.720 --> 00:41:29.275 Doctor Mehra operated and after

NOTE Confidence: 0.879694466

00:41:29.275 --> 00:41:33.039 the portion of the tongue that was

NOTE Confidence: 0.879694466

00:41:33.039 --> 00:41:35.370 cancerous was removed, he replaced

NOTE Confidence: 0.879694466

00:41:35.370 --> 00:41:38.730 it with a skin graft from my forearm.

NOTE Confidence: 0.879694466

00:41:38.730 --> 00:41:41.376 I'm now speaking to you 5 weeks to

NOTE Confidence: 0.879694466

00:41:41.376 --> 00:41:44.328 the day after surgery and I no longer

NOTE Confidence: 0.879694466

00:41:44.328 --> 00:41:47.269 feel like I have marbles in my mouth.

NOTE Confidence: 0.879694466

00:41:47.270 --> 00:41:49.680 I can speak clearly and

NOTE Confidence: 0.879694466

00:41:49.680 --> 00:41:52.090 it's entirely due to him.

NOTE Confidence: 0.879694466

00:41:52.090 --> 00:41:54.458 Yeah, Mike, partial Larry.

NOTE Confidence: 0.879694466

00:41:54.458 --> 00:42:00.215 Mack Larnax, see perfect was four months ago.

NOTE Confidence: 0.879694466

00:42:00.215 --> 00:42:01.740 And.

NOTE Confidence: 0.879694466

00:42:01.740 --> 00:42:05.750 I'm amazed that I have this voice.

NOTE Confidence: 0.879694466

00:42:05.750 --> 00:42:06.240 Go

NOTE Confidence: 0.9916736

00:42:10.050 --> 00:42:12.828 1234567. Do you have a feeding tube?

NOTE Confidence: 0.9916736

00:42:12.830 --> 00:42:17.890 No. Do you have a tracheotomy? No.

NOTE Confidence: 0.9916736

00:42:17.890 --> 00:42:21.160 Ohh, I had my surgery three months ago.

NOTE Confidence: 0.23097047

00:42:24.860 --> 00:42:26.400 Free **** pie,

NOTE Confidence: 0.821764675

00:42:27.350 --> 00:42:28.718 I had my surgery

NOTE Confidence: 0.764081355

00:42:28.730 --> 00:42:31.148 on May 2nd by Doctor Merritt.

NOTE Confidence: 0.764081355

00:42:31.150 --> 00:42:33.439 So you can see these are patients

NOTE Confidence: 0.764081355

00:42:33.439 --> 00:42:35.299 who where function is important.

NOTE Confidence: 0.764081355

00:42:35.300 --> 00:42:36.968 It's not just that they're alive

NOTE Confidence: 0.764081355

00:42:36.968 --> 00:42:38.768 and they're cancer free and they

NOTE Confidence: 0.764081355

00:42:38.768 --> 00:42:40.028 had guideline compliant care,

NOTE Confidence: 0.764081355

00:42:40.030 --> 00:42:41.902 but you have a laryngectomy patient

NOTE Confidence: 0.764081355

00:42:41.902 --> 00:42:43.859 speaking hands free thanks to our

NOTE Confidence: 0.764081355

00:42:43.859 --> 00:42:45.167 speech and language pathologist.

NOTE Confidence: 0.764081355

00:42:45.170 --> 00:42:47.459 You've got patients who are in the

NOTE Confidence: 0.764081355

00:42:47.459 --> 00:42:49.374 public speaking after having significant

NOTE Confidence: 0.764081355

00:42:49.374 --> 00:42:51.544 portions of their tongue removed,

NOTE Confidence: 0.764081355

00:42:51.550 --> 00:42:53.862 but high quality reconstructions.

NOTE Confidence: 0.764081355

00:42:53.862 --> 00:42:56.174 Partial laryngectomy is for

NOTE Confidence: 0.764081355

00:42:56.174 --> 00:42:58.639 salvage which are not done at,

NOTE Confidence: 0.764081355

00:42:58.640 --> 00:43:01.209 certainly not at in low volume places,

NOTE Confidence: 0.764081355

00:43:01.210 --> 00:43:04.658 saving saving the larynx.

NOTE Confidence: 0.764081355

00:43:04.660 --> 00:43:06.812 So I hope what I've done now is

NOTE Confidence: 0.764081355

00:43:06.812 --> 00:43:08.650 you already knew that randomized

NOTE Confidence: 0.764081355

00:43:08.650 --> 00:43:10.294 control trials are great.

NOTE Confidence: 0.764081355

00:43:10.300 --> 00:43:12.184 They lead to practice changing innovations

NOTE Confidence: 0.764081355

00:43:12.184 --> 00:43:14.380 in the care of cancer patients.

NOTE Confidence: 0.764081355

00:43:14.380 --> 00:43:16.948 But I hope you can have a better.

NOTE Confidence: 0.764081355

00:43:16.950 --> 00:43:18.694 Respect maybe for quality

NOTE Confidence: 0.764081355

00:43:18.694 --> 00:43:20.874 of care research as well.

NOTE Confidence: 0.764081355

00:43:20.880 --> 00:43:22.788 We can have a remarkable impact

NOTE Confidence: 0.764081355

00:43:22.788 --> 00:43:24.720 on patient outcomes and I think

NOTE Confidence: 0.764081355

00:43:24.720 --> 00:43:26.520 it's necessary for the quote real

NOTE Confidence: 0.764081355

00:43:26.520 --> 00:43:28.690 science to mean anything to patients.

NOTE Confidence: 0.764081355

00:43:28.690 --> 00:43:31.090 You have basic science researchers who

NOTE Confidence: 0.764081355

00:43:31.090 --> 00:43:33.208 feed the clinical researchers within

NOTE Confidence: 0.764081355

00:43:33.208 --> 00:43:35.498 clinical researchers feed the patient

NOTE Confidence: 0.764081355

00:43:35.498 --> 00:43:37.742 centered outcomes researchers and that's

NOTE Confidence: 0.764081355

00:43:37.742 --> 00:43:39.806 what leads to better patient care.

NOTE Confidence: 0.764081355

00:43:39.810 --> 00:43:41.526 So Healthcare is remember this is

NOTE Confidence: 0.764081355

00:43:41.526 --> 00:43:43.489 getting the right care to the right

NOTE Confidence: 0.764081355

00:43:43.489 --> 00:43:45.274 patient at the right time every time.

NOTE Confidence: 0.764081355

00:43:45.280 --> 00:43:46.544 That's quality cancer care.

NOTE Confidence: 0.764081355

00:43:46.544 --> 00:43:47.176 Thank you.

NOTE Confidence: 0.865140960714286

00:43:55.620 --> 00:43:57.692 Thank you so much for both for the

NOTE Confidence: 0.865140960714286

00:43:57.692 --> 00:43:59.480 wonderful talk and the wonderful work.

NOTE Confidence: 0.865140960714286

00:43:59.480 --> 00:44:01.490 Are there any questions either

NOTE Confidence: 0.865140960714286

00:44:01.490 --> 00:44:05.069 here in the room or I know people

NOTE Confidence: 0.865140960714286

00:44:05.069 --> 00:44:07.045 are also potentially posting?

NOTE Confidence: 0.826873956666667

00:44:09.820 --> 00:44:10.870 Through the webinar.

NOTE Confidence: 0.84596603

00:44:14.420 --> 00:44:15.090 Yeah, Tommy.

NOTE Confidence: 0.47233906

00:44:17.630 --> 00:44:17.960 Open.

NOTE Confidence: 0.98297286

00:44:21.040 --> 00:44:21.590 COVID-19.

NOTE Confidence: 0.80118291125

00:44:26.690 --> 00:44:30.090 I don't know yet is a short answer.

NOTE Confidence: 0.80118291125

00:44:30.090 --> 00:44:32.097 I think that's it's an area of active study.

NOTE Confidence: 0.80118291125

00:44:32.100 --> 00:44:33.840 There are some small scale

NOTE Confidence: 0.80118291125

00:44:33.840 --> 00:44:34.884 publications on that,

NOTE Confidence: 0.80118291125

00:44:34.890 --> 00:44:36.850 but I think we're going to know.

NOTE Confidence: 0.80118291125

00:44:36.850 --> 00:44:38.810 Pretty soon, I can tell you our experience,

NOTE Confidence: 0.80118291125

00:44:38.810 --> 00:44:39.874 but that's not based on the data.

NOTE Confidence: 0.80118291125

00:44:39.880 --> 00:44:41.424 Maybe Doctor Burtness has

NOTE Confidence: 0.80118291125

00:44:41.424 --> 00:44:42.968 more information about that,

NOTE Confidence: 0.80118291125

00:44:42.970 --> 00:44:44.248 but I think we're going to

NOTE Confidence: 0.80118291125

00:44:44.248 --> 00:44:45.100 know better soon enough.

NOTE Confidence: 0.82352231

00:44:47.660 --> 00:44:50.860 I mean I I think we saw a number of,

NOTE Confidence: 0.82352231

00:44:50.860 --> 00:44:53.299 I don't know that we have stats on it,

NOTE Confidence: 0.82352231

00:44:53.300 --> 00:44:56.884 but we saw a number of patients with

NOTE Confidence: 0.82352231

00:44:56.884 --> 00:44:58.900 considerable delays in diagnosis.

NOTE Confidence: 0.82352231

00:44:58.900 --> 00:45:02.156 So I have a I have a question.

NOTE Confidence: 0.82352231

00:45:02.160 --> 00:45:03.388 When we participate in,

NOTE Confidence: 0.82352231

00:45:03.388 --> 00:45:05.230 so dragging you back to the

NOTE Confidence: 0.82352231

00:45:05.292 --> 00:45:07.278 clinical trial side for a moment,

NOTE Confidence: 0.82352231

00:45:07.280 --> 00:45:10.952 but a really important consideration for

NOTE Confidence: 0.82352231

00:45:10.952 --> 00:45:15.069 surgically based trials is how do we set

NOTE Confidence: 0.82352231

00:45:15.069 --> 00:45:18.800 what the benchmark is for the right surgery.

NOTE Confidence: 0.82352231

00:45:18.800 --> 00:45:21.332 And I know you're participating in

NOTE Confidence: 0.82352231

00:45:21.332 --> 00:45:23.820 the Sentinel lymph node trial now,

NOTE Confidence: 0.82352231

00:45:23.820 --> 00:45:27.684 sort of how does that credentialing process?

NOTE Confidence: 0.82352231

00:45:27.690 --> 00:45:31.757 Sit with our own quality enhancement efforts.

NOTE Confidence: 0.83874719125

00:45:34.030 --> 00:45:35.038 It's a good question.

NOTE Confidence: 0.83874719125

00:45:35.038 --> 00:45:36.046 I think you're right.

NOTE Confidence: 0.83874719125

00:45:36.050 --> 00:45:37.898 It's just exciting now to have

NOTE Confidence: 0.83874719125

00:45:37.898 --> 00:45:39.130 surgeons involved in randomized

NOTE Confidence: 0.83874719125

00:45:39.185 --> 00:45:40.656 control trials like ECOG 3311,

NOTE Confidence: 0.83874719125

00:45:40.656 --> 00:45:41.708 the Sentinel node trial.

NOTE Confidence: 0.83874719125

00:45:41.710 --> 00:45:43.948 It's actually great because it hasn't

NOTE Confidence: 0.83874719125

00:45:43.948 --> 00:45:46.670 happened a lot in head neck cancer.

NOTE Confidence: 0.83874719125

00:45:46.670 --> 00:45:48.539 You know, I think that for clinical

NOTE Confidence: 0.83874719125

00:45:48.539 --> 00:45:50.280 trials it's different than patient these,

NOTE Confidence: 0.83874719125

00:45:50.280 --> 00:45:51.675 these comparative effectiveness

NOTE Confidence: 0.83874719125

00:45:51.675 --> 00:45:54.930 researchers because you need to know if

NOTE Confidence: 0.83874719125

00:45:55.003 --> 00:45:57.427 the intervention is effective or not.

NOTE Confidence: 0.83874719125

00:45:57.430 --> 00:45:59.080 You need high quality surgeons every

NOTE Confidence: 0.83874719125

00:45:59.080 --> 00:46:00.931 time they need to be credentialed

NOTE Confidence: 0.83874719125

00:46:00.931 --> 00:46:02.666 and the surgical quality metrics

NOTE Confidence: 0.83874719125

00:46:02.666 --> 00:46:04.351 are being monitored constantly and

NOTE Confidence: 0.83874719125

00:46:04.351 --> 00:46:06.423 I think you need that for clinical

NOTE Confidence: 0.83874719125

00:46:06.423 --> 00:46:08.150 research and I'm glad it's there.

NOTE Confidence: 0.83874719125

00:46:08.150 --> 00:46:10.117 But how you apply that to the

NOTE Confidence: 0.83874719125

00:46:10.117 --> 00:46:11.640 real world I think is,

NOTE Confidence: 0.83874719125

00:46:11.640 --> 00:46:13.025 you know at the second

NOTE Confidence: 0.83874719125

00:46:13.025 --> 00:46:14.133 area of research interest.

NOTE Confidence: 0.83874719125

00:46:14.140 --> 00:46:16.275 But I'm glad they're credentialed

NOTE Confidence: 0.83874719125

00:46:16.275 --> 00:46:17.983 high quality surgeons during

NOTE Confidence: 0.83874719125

00:46:17.983 --> 00:46:19.509 the clinical trials.

NOTE Confidence: 0.83874719125

00:46:19.510 --> 00:46:19.760 We

NOTE Confidence: 0.858781919

00:46:19.770 --> 00:46:22.446 have a a question from Doctor

NOTE Confidence: 0.858781919

00:46:22.446 --> 00:46:24.230 Robinson in radiation oncology.

NOTE Confidence: 0.858781919

00:46:24.230 --> 00:46:28.530 How do you disseminate the

NOTE Confidence: 0.858781919

00:46:28.530 --> 00:46:31.970 these quality insights to?

NOTE Confidence: 0.858781919

00:46:31.970 --> 00:46:35.127 The lower volume centers and are there

NOTE Confidence: 0.858781919

00:46:35.127 --> 00:46:37.461 specific guidelines for which patients

NOTE Confidence: 0.858781919

00:46:37.461 --> 00:46:40.185 should be referred for high volume?

NOTE Confidence: 0.858781919

00:46:40.190 --> 00:46:42.530 Is it practical to refer everyone

NOTE Confidence: 0.858781919

00:46:42.530 --> 00:46:44.830 with less common cancers like head,

NOTE Confidence: 0.858781919

00:46:44.830 --> 00:46:47.950 neck cancer? And if not,

NOTE Confidence: 0.858781919

00:46:47.950 --> 00:46:51.570 how do you feed these?

NOTE Confidence: 0.858781919

00:46:51.570 --> 00:46:53.738 These care care approaches

NOTE Confidence: 0.858781919

00:46:53.738 --> 00:46:56.448 to the lower volume centers.

NOTE Confidence: 0.782602858888889

00:46:57.460 --> 00:46:58.460 That's a great question.

NOTE Confidence: 0.782602858888889

00:46:58.460 --> 00:46:59.710 I think it's $1,000,000 question.

NOTE Confidence: 0.782602858888889

00:46:59.710 --> 00:47:01.859 If we could do that honestly I

NOTE Confidence: 0.782602858888889

00:47:01.859 --> 00:47:04.053 think we could improve survival more

NOTE Confidence: 0.782602858888889

00:47:04.053 --> 00:47:06.192 than the next billion dollar drug

NOTE Confidence: 0.782602858888889

00:47:06.192 --> 00:47:08.390 basically and I think that's that's our

NOTE Confidence: 0.782602858888889

00:47:08.450 --> 00:47:10.368 challenge that's what we need to do.

NOTE Confidence: 0.782602858888889

00:47:10.370 --> 00:47:11.924 I don't know I think every system

NOTE Confidence: 0.782602858888889

00:47:11.924 --> 00:47:13.709 has it has a different approach.

NOTE Confidence: 0.782602858888889

00:47:13.710 --> 00:47:15.152 I think Yale New Haven Health System

NOTE Confidence: 0.782602858888889

00:47:15.152 --> 00:47:16.543 is going to be different than

NOTE Confidence: 0.782602858888889

00:47:16.543 --> 00:47:17.989 memorial is going to be different

NOTE Confidence: 0.782602858888889

00:47:17.989 --> 00:47:19.588 than pen is going to be different

NOTE Confidence: 0.782602858888889

00:47:19.588 --> 00:47:20.776 than any health system but.

NOTE Confidence: 0.782602858888889

00:47:20.776 --> 00:47:23.224 I don't know what the right answer is,

NOTE Confidence: 0.782602858888889

00:47:23.230 --> 00:47:24.469 but we need to figure it out.

NOTE Confidence: 0.881876587142857

00:47:27.800 --> 00:47:30.688 I guess I have a follow up question

NOTE Confidence: 0.881876587142857

00:47:30.688 --> 00:47:33.825 to that and and that is some of

NOTE Confidence: 0.881876587142857

00:47:33.825 --> 00:47:36.513 the hypothesis you had about what

NOTE Confidence: 0.881876587142857

00:47:36.513 --> 00:47:40.311 controlled let's say the rate of

NOTE Confidence: 0.881876587142857

00:47:40.311 --> 00:47:44.948 margin positivity had to do with.

NOTE Confidence: 0.881876587142857

00:47:44.950 --> 00:47:49.380 Frozen margin evaluation communication.

NOTE Confidence: 0.871447651666667

00:47:52.010 --> 00:47:54.523 Are are there components of that that

NOTE Confidence: 0.871447651666667

00:47:54.523 --> 00:47:56.730 could be enabled by telemedicine?

NOTE Confidence: 0.871447651666667

00:47:56.730 --> 00:47:58.886 So you know you referred to digital

NOTE Confidence: 0.871447651666667

00:47:58.886 --> 00:48:00.978 pathology once or twice in your talk,

NOTE Confidence: 0.871447651666667

00:48:00.980 --> 00:48:05.698 but are there ways that expert disease

NOTE Confidence: 0.871447651666667

00:48:05.698 --> 00:48:09.568 focused let's say pathology evaluation?

NOTE Confidence: 0.871447651666667

00:48:09.570 --> 00:48:12.020 Could be extended through telemedicine.

NOTE Confidence: 0.900279335

00:48:14.150 --> 00:48:16.466 Yeah, I think that would be,

NOTE Confidence: 0.900279335

00:48:16.470 --> 00:48:19.585 I think that's one way to bring expert

NOTE Confidence: 0.900279335

00:48:19.585 --> 00:48:22.315 level care across the system with

NOTE Confidence: 0.900279335

00:48:22.315 --> 00:48:24.606 telemedicine and I think pathology

NOTE Confidence: 0.900279335

00:48:24.606 --> 00:48:27.998 would be a great way to start actually.