00:00:00.000 --> 00:00:02.475 So in terms of imaging,

00:00:02.475 --> 00:00:04.950 obviously mammography and ultrasound tend

00:00:05.026 --> 00:00:07.863 to be our main modalities and that is

00:00:07.863 --> 00:00:11.339 what I what we do at the shoreline MRI.

00:00:11.340 --> 00:00:14.070 We, you know for good quality MRI

00:00:14.070 --> 00:00:16.710 it requires a special breast coil

00:00:16.710 --> 00:00:19.476 as well as the higher magnets.

00:00:19.480 --> 00:00:21.874 The 3T magnet is what we prefer

00:00:21.874 --> 00:00:23.499 to perform our MRI on.

00:00:23.500 --> 00:00:25.880 So that's why we only perform those

00:00:25.880 --> 00:00:28.498 down in New Haven or at Park Ave.

00:00:28.500 --> 00:00:30.288 So we're not currently doing MRI.

00:00:30.288 --> 00:00:31.156 At Shoreline,

00:00:31.156 --> 00:00:34.540 patients do need to go downtown for that.

NOTE Confidence: 0.882699470666667

00:00:34.540 --> 00:00:36.286 You know, I just want to talk a little

NOTE Confidence: 0.882699470666667

00:00:36.286 --> 00:00:38.200 bit about the 3D mammography because we,

NOTE Confidence: 0.882699470666667

00:00:38.200 --> 00:00:40.244 you know we we've been using this

NOTE Confidence: 0.882699470666667

00:00:40.244 --> 00:00:42.830 for more than a decade now and it

NOTE Confidence: 0.882699470666667

00:00:42.830 --> 00:00:44.475 has really improved our outcomes.

NOTE Confidence: 0.882699470666667

00:00:44.480 --> 00:00:46.688 Yale was one of the five original beta

NOTE Confidence: 0.882699470666667

00:00:46.688 --> 00:00:49.318 sites for the development of this technology.

NOTE Confidence: 0.882699470666667

00:00:49.320 --> 00:00:51.856 So we're quite proud of it and this

NOTE Confidence: 0.882699470666667

00:00:51.856 --> 00:00:54.433 led to the FDA approval in 2011.

NOTE Confidence: 0.882699470666667

00:00:54.433 --> 00:00:57.897 So we have a long history of it

NOTE Confidence: 0.882699470666667

00:00:57.897 --> 00:01:01.480 at Yale and after FDA approval.

NOTE Confidence: 0.882699470666667

00:01:01.480 --> 00:01:03.699 We were the first in Connecticut to

NOTE Confidence: 0.882699470666667

00:01:03.699 --> 00:01:06.181 obtain a a commercial unit and the

NOTE Confidence: 0.882699470666667

00:01:06.181 --> 00:01:09.409 actual 13th unit in the whole United States.

NOTE Confidence: 0.882699470666667

00:01:09.410 --> 00:01:10.850 So we've had it for a long time.

NOTE Confidence: 0.882699470666667

00:01:10.850 --> 00:01:12.985 We've always offered it to all patients

NOTE Confidence: 0.882699470666667

00:01:12.985 --> 00:01:15.238 at no cost and it's really permitted us

NOTE Confidence: 0.882699470666667

00:01:15.240 --> 00:01:18.271 to have a a really invaluable research

NOTE Confidence: 0.882699470666667

00:01:18.271 --> 00:01:21.234 database that we have been able to

NOTE Confidence: 0.882699470666667

00:01:21.234 --> 00:01:24.270 publish and do a lot of good studies with.

NOTE Confidence: 0.882699470666667

00:01:24.270 --> 00:01:26.256 So basically you know a lot

NOTE Confidence: 0.882699470666667

00:01:26.256 --> 00:01:28.060 of these studies have shown,

NOTE Confidence: 0.882699470666667

00:01:28.060 --> 00:01:29.986 I think you know very well

NOTE Confidence: 0.882699470666667

00:01:29.986 --> 00:01:31.530 that the 3D mammography is.

NOTE Confidence: 0.882699470666667

00:01:31.530 --> 00:01:33.630 Very.

NOTE Confidence: 0.882699470666667

00:01:33.630 --> 00:01:35.634 Advantageous over treating mammography.

NOTE Confidence: 0.882699470666667

00:01:35.634 --> 00:01:38.448 Multiple sites now throughout the world,

NOTE Confidence: 0.882699470666667

00:01:38.450 --> 00:01:39.695 in North America,

NOTE Confidence: 0.882699470666667

00:01:39.695 --> 00:01:40.110 Europe,

NOTE Confidence: 0.882699470666667

00:01:40.110 --> 00:01:42.185 Asia have repeatedly shown that

NOTE Confidence: 0.882699470666667

00:01:42.185 --> 00:01:45.020 it results in lower recall rates

NOTE Confidence: 0.882699470666667

00:01:45.020 --> 00:01:46.896 and increased cancer detection,

NOTE Confidence: 0.882699470666667

00:01:46.900 --> 00:01:48.568 particularly for invasive cancers.

NOTE Confidence: 0.882699470666667

00:01:48.568 --> 00:01:51.776 And for those of you who might not

NOTE Confidence: 0.882699470666667

00:01:51.776 --> 00:01:53.974 have seen how it how it works,

NOTE Confidence: 0.882699470666667

00:01:53.980 --> 00:01:57.382 you can see here's the 2D portion

NOTE Confidence: 0.882699470666667

00:01:57.382 --> 00:01:59.920 of the screening mammogram.

NOTE Confidence: 0.882699470666667

00:01:59.920 --> 00:02:01.584 And in the tomosynthesis,

NOTE Confidence: 0.882699470666667

00:02:01.584 --> 00:02:04.540 you can see the images moving here.

NOTE Confidence: 0.882699470666667

00:02:04.540 --> 00:02:07.382 We look at these in one millimeter

NOTE Confidence: 0.882699470666667

00:02:07.382 --> 00:02:10.017 slices through the breast and the

NOTE Confidence: 0.882699470666667

00:02:10.017 --> 00:02:12.687 cancers really can pop out beautifully

NOTE Confidence: 0.882699470666667

00:02:12.687 --> 00:02:15.738 that otherwise would have been hiding.

NOTE Confidence: 0.882699470666667

00:02:15.740 --> 00:02:18.062 So it's easy to understand how

NOTE Confidence: 0.882699470666667

00:02:18.062 --> 00:02:20.360 we can find more cancers,

NOTE Confidence: 0.882699470666667

00:02:20.360 --> 00:02:24.920 reduce the recalls for false positives,

NOTE Confidence: 0.882699470666667

00:02:24.920 --> 00:02:27.480 prove the outcomes for patients.

NOTE Confidence: 0.882699470666667

00:02:27.480 --> 00:02:29.080 All right.

NOTE Confidence: 0.882699470666667

00:02:29.080 --> 00:02:31.215 Here's just another example of a patient.

NOTE Confidence: 0.882699470666667

00:02:31.220 --> 00:02:32.284 This is,

NOTE Confidence: 0.882699470666667

00:02:32.284 --> 00:02:34.944 it's the screening mammogram and

NOTE Confidence: 0.882699470666667

00:02:34.944 --> 00:02:37.063 there's a questionable asymmetry

NOTE Confidence: 0.882699470666667

00:02:37.063 --> 00:02:40.519 in the breast and that's on the 2D

NOTE Confidence: 0.882699470666667

00:02:40.519 --> 00:02:43.040 portion when you look at the 3D.

NOTE Confidence: 0.882699470666667

00:02:43.040 --> 00:02:44.994 Not only does it tell us exactly

NOTE Confidence: 0.882699470666667

00:02:44.994 --> 00:02:46.830 where it is in the breast,

NOTE Confidence: 0.882699470666667

00:02:46.830 --> 00:02:48.286 it's actually down here on the 2D.

NOTE Confidence: 0.882699470666667

00:02:48.290 --> 00:02:49.954 We might have thought it was up there,

NOTE Confidence: 0.882699470666667

00:02:49.960 --> 00:02:51.304 but it's down there.

NOTE Confidence: 0.882699470666667

00:02:51.304 --> 00:02:52.984 So we're able to accurately

NOTE Confidence: 0.882699470666667

00:02:52.984 --> 00:02:54.891 localize lesions and we're able

NOTE Confidence: 0.882699470666667

00:02:54.891 --> 00:02:56.395 to characterize them better.

NOTE Confidence: 0.882699470666667

00:02:56.400 --> 00:02:58.094 You see on the 2D that could

NOTE Confidence: 0.882699470666667

00:02:58.094 --> 00:02:59.260 easily have been missed,

NOTE Confidence: 0.882699470666667

00:02:59.260 --> 00:03:00.965 whereas here we exquisitely see

NOTE Confidence: 0.882699470666667

00:03:00.965 --> 00:03:02.670 the detail of the speculations.

NOTE Confidence: 0.882699470666667

00:03:02.670 --> 00:03:03.940 So we're able to localize,

NOTE Confidence: 0.882699470666667

00:03:03.940 --> 00:03:06.230 characterize and then honestly patients

NOTE Confidence: 0.882699470666667

00:03:06.230 --> 00:03:09.240 go directly to ultrasound from from this,

NOTE Confidence: 0.882699470666667

00:03:09.240 --> 00:03:12.090 a lot of the diagnostic

NOTE Confidence: 0.882699470666667

00:03:12.090 --> 00:03:13.800 workup additional views.

NOTE Confidence: 0.80090105

00:03:13.800 --> 00:03:15.156 Are not necessary anymore.

NOTE Confidence: 0.80090105

00:03:15.156 --> 00:03:17.190 We can find things with ultrasound.

NOTE Confidence: 0.80090105

00:03:17.190 --> 00:03:18.486 So this is what we do.

NOTE Confidence: 0.80090105

00:03:18.490 --> 00:03:20.605 We do a lot of this at the shoreline,

NOTE Confidence: 0.80090105

00:03:20.610 --> 00:03:22.900 lot of ultrasound guided biopsies

NOTE Confidence: 0.80090105

00:03:22.900 --> 00:03:25.763 because the majority of lesions other

NOTE Confidence: 0.80090105

00:03:25.763 --> 00:03:27.739 than true calcification lesions

NOTE Confidence: 0.80090105

00:03:27.739 --> 00:03:30.209 can be biopsied with ultrasound.

NOTE Confidence: 0.80090105

00:03:30.210 --> 00:03:33.540 Just a note about tissue density

NOTE Confidence: 0.80090105

00:03:33.540 --> 00:03:35.600 with breast in mammography.

NOTE Confidence: 0.80090105

00:03:35.600 --> 00:03:37.975 The sensitivity of mammography is

NOTE Confidence: 0.80090105

00:03:37.975 --> 00:03:40.489 obviously related to tissue density.

NOTE Confidence: 0.80090105

00:03:40.490 --> 00:03:43.670 It's an important aspect of of

NOTE Confidence: 0.80090105

00:03:43.670 --> 00:03:45.790 of interpreting a mammogram.

NOTE Confidence: 0.80090105

00:03:45.790 --> 00:03:47.345 While while the sensitivity is

NOTE Confidence: 0.80090105

00:03:47.345 --> 00:03:49.370 very very high in fatty breast,

NOTE Confidence: 0.80090105

00:03:49.370 --> 00:03:52.034 it obviously is reduced even with

NOTE Confidence: 0.80090105

00:03:52.034 --> 00:03:55.030 the 3D mammography in denser tissue.

NOTE Confidence: 0.80090105

00:03:55.030 --> 00:03:57.316 So as you're probably well aware,

NOTE Confidence: 0.80090105

00:03:57.320 --> 00:03:59.259 we were the first state in the

NOTE Confidence: 0.80090105

00:03:59.259 --> 00:04:00.350 in the nation to.

NOTE Confidence: 0.80090105

00:04:00.350 --> 00:04:03.068 Uh, it's today density notification law.

NOTE Confidence: 0.80090105

00:04:03.070 --> 00:04:05.548 So this took effect in October of

NOTE Confidence: 0.80090105

00:04:05.550 --> 00:04:07.699 2009 and women are informed of their

NOTE Confidence: 0.80090105

00:04:07.699 --> 00:04:09.260 brands breast density and since

NOTE Confidence: 0.80090105

00:04:09.260 --> 00:04:11.006 that time many women with breasts,

NOTE Confidence: 0.80090105

00:04:11.010 --> 00:04:13.746 with dense breasts have opted to

NOTE Confidence: 0.80090105

00:04:13.746 --> 00:04:15.114 undergo supplemental screening

NOTE Confidence: 0.80090105

00:04:15.114 --> 00:04:16.782 particularly with ultrasound just

NOTE Confidence: 0.80090105

00:04:16.782 --> 00:04:18.546 something that we developed it at Yale.

NOTE Confidence: 0.80090105

00:04:18.550 --> 00:04:20.406 So I just thought I would show you

NOTE Confidence: 0.80090105

00:04:20.406 --> 00:04:22.750 is a density an artificial intention

NOTE Confidence: 0.80090105

00:04:22.750 --> 00:04:24.566 in intelligence density tool.

NOTE Confidence: 0.80090105

00:04:24.570 --> 00:04:25.690 This is through our visage,

NOTE Confidence: 0.80090105

00:04:25.690 --> 00:04:28.455 our pack system and this is now

NOTE Confidence: 0.80090105

00:04:28.455 --> 00:04:30.550 FDA approved and this just.

NOTE Confidence: 0.80090105

00:04:30.550 --> 00:04:30.967 Obviously,

NOTE Confidence: 0.80090105

00:04:30.967 --> 00:04:33.469 breast density is a little bit

NOTE Confidence: 0.80090105

00:04:33.469 --> 00:04:34.720 of a subjective.

NOTE Confidence: 0.80090105

00:04:34.720 --> 00:04:37.220 It, you know, like classification,

NOTE Confidence: 0.80090105

00:04:37.220 --> 00:04:39.500 this makes it a little bit more objective.

NOTE Confidence: 0.80090105

00:04:39.500 --> 00:04:42.934 We get a density reading which

NOTE Confidence: 0.80090105

00:04:42.934 --> 00:04:46.406 is just an output on our on our

NOTE Confidence: 0.80090105

00:04:46.406 --> 00:04:48.637 workstations giving the breast

NOTE Confidence: 0.80090105

00:04:48.637 --> 00:04:50.917 density with the confidence.

NOTE Confidence: 0.80090105

00:04:50.920 --> 00:04:52.020 Percentage.

NOTE Confidence: 0.80090105

00:04:52.020 --> 00:04:53.916 So it's a nice tool that we've developed.

NOTE Confidence: 0.80090105

00:04:53.920 --> 00:04:55.456 I mentioned the mobile van before

NOTE Confidence: 0.80090105

00:04:55.456 --> 00:04:57.625 is one of our sites and just to

NOTE Confidence: 0.80090105

00:04:57.625 --> 00:04:59.257 to mention it again because this

NOTE Confidence: 0.80090105

00:04:59.317 --> 00:05:00.677 does visit the shoreline,

NOTE Confidence: 0.80090105

00:05:00.680 --> 00:05:02.304 you know four to five times a month,

NOTE Confidence: 0.80090105

00:05:02.310 --> 00:05:04.101 you may see it up in the parking lot

NOTE Confidence: 0.80090105

00:05:04.101 --> 00:05:05.597 taking up valuable parking spaces,

NOTE Confidence: 0.80090105

00:05:05.600 --> 00:05:07.502 but but nonetheless it is good

NOTE Confidence: 0.80090105

00:05:07.502 --> 00:05:08.453 for our patients.

NOTE Confidence: 0.80090105

00:05:08.460 --> 00:05:11.210 We do screening on the van with the

NOTE Confidence: 0.80090105

00:05:11.210 --> 00:05:13.100 course 3D mammography and breast ultrasound.

NOTE Confidence: 0.80090105

00:05:13.100 --> 00:05:15.348 So this fan which has been on the

NOTE Confidence: 0.80090105

00:05:15.348 --> 00:05:18.280 road for about 2 years now has both a

NOTE Confidence: 0.80090105

00:05:18.280 --> 00:05:20.879 mammography unit and an ultrasound separate.

NOTE Confidence: 0.80090105

00:05:20.880 --> 00:05:24.888 Sweets and while we've had a van for

NOTE Confidence: 0.80090105

00:05:24.890 --> 00:05:28.157 35 some years in in New Haven at Yale,

NOTE Confidence: 0.80090105

00:05:28.160 --> 00:05:30.260 this is the first time we've had

NOTE Confidence: 0.80090105

00:05:30.260 --> 00:05:31.769 mammography and ultrasound on the van.

NOTE Confidence: 0.80090105

00:05:31.770 --> 00:05:33.495 So certainly those women with

NOTE Confidence: 0.80090105

00:05:33.495 --> 00:05:35.637 dense tissue that really need the

NOTE Confidence: 0.80090105

00:05:35.637 --> 00:05:37.392 screening ultrasound as well can

NOTE Confidence: 0.80090105

00:05:37.392 --> 00:05:39.329 be well accommodated on the van.

NOTE Confidence: 0.80090105

00:05:39.330 --> 00:05:41.490 And here's a case that was done on the van.

NOTE Confidence: 0.80090105

00:05:41.490 --> 00:05:43.932 Patient with dense tissue had her

NOTE Confidence: 0.80090105

00:05:43.932 --> 00:05:46.014 mammography and her ultrasound and

NOTE Confidence: 0.80090105

00:05:46.014 --> 00:05:48.688 actually had multiple cancers in her breast.

NOTE Confidence: 0.80090105

00:05:48.690 --> 00:05:49.266 Interventional procedures.

NOTE Confidence: 0.80090105

00:05:49.266 --> 00:05:50.130 Like I said,

NOTE Confidence: 0.80090105

00:05:50.130 --> 00:05:50.816 we perform.

NOTE Confidence: 0.80090105

00:05:50.816 --> 00:05:53.560 About two to three per day at the

NOTE Confidence: 0.80090105

00:05:53.637 --> 00:05:55.997 shoreline and patients love it.

NOTE Confidence: 0.80090105

00:05:56.000 --> 00:05:58.114 I'll just say we just do ultrasound

NOTE Confidence: 0.80090105

00:05:58.114 --> 00:06:00.299 biopsies currently we do not do stereotactic.

NOTE Confidence: 0.80090105

00:06:00.300 --> 00:06:00.591 Again,

NOTE Confidence: 0.80090105

00:06:00.591 --> 00:06:02.337 that is just something that is

NOTE Confidence: 0.80090105

00:06:02.337 --> 00:06:03.999 an extra piece of equipment.

NOTE Confidence: 0.80090105

00:06:04.000 --> 00:06:06.800 So we're doing those downtown right now,

NOTE Confidence: 0.80090105

00:06:06.800 --> 00:06:08.792 but maybe in the future we will when

NOTE Confidence: 0.80090105

00:06:08.792 --> 00:06:11.167 we have a little bit more resources

NOTE Confidence: 0.80090105

00:06:11.167 --> 00:06:12.982 at the shoreline ultrasound biopsies

NOTE Confidence: 0.855607974333333

00:06:13.039 --> 00:06:15.421 though again the majority of patients

NOTE Confidence: 0.855607974333333

00:06:15.421 --> 00:06:17.009 can undergo ultrasound biopsies,

NOTE Confidence: 0.855607974333333

00:06:17.010 --> 00:06:18.954 which is preferable modality,

NOTE Confidence: 0.855607974333333

00:06:18.954 --> 00:06:20.898 we also can localize.

NOTE Confidence: 0.855607974333333

00:06:20.900 --> 00:06:22.764 Patients for surgery using

NOTE Confidence: 0.855607974333333

00:06:22.764 --> 00:06:24.628 mammographic or sonographic guidance.

NOTE Confidence: 0.855607974333333

00:06:24.630 --> 00:06:26.892 We have dedicated breast imaging nurses

NOTE Confidence: 0.855607974333333

00:06:26.892 --> 00:06:29.608 now and this is that they're invaluable

NOTE Confidence: 0.855607974333333

00:06:29.608 --> 00:06:33.010 and always one is always at the shoreline.

NOTE Confidence: 0.855607974333333

00:06:33.010 --> 00:06:35.092 So these these nurses help us

NOTE Confidence: 0.855607974333333

00:06:35.092 --> 00:06:37.974 with our procedures, patient care,

NOTE Confidence: 0.855607974333333

00:06:37.974 --> 00:06:39.430 communication, pathology,

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NOTE Confidence: 0.855607974333333

00:06:39.430 --> 00:06:41.506 follow up and then data entry.

NOTE Confidence: 0.855607974333333

00:06:41.510 --> 00:06:44.750 So it's really they're, they're wonderful.

NOTE Confidence: 0.855607974333333

00:06:44.750 --> 00:06:46.558 Here's just an example.

NOTE Confidence: 0.855607974333333

00:06:46.558 --> 00:06:48.942 Again, Doctor Zaneski is going to talk more

NOTE Confidence: 0.855607974333333

00:06:48.942 --> 00:06:51.242 about the surgery side of things, you know.

NOTE Confidence: 0.855607974333333

00:06:51.242 --> 00:06:52.220 Diagnosed the patients,

NOTE Confidence: 0.855607974333333

00:06:52.220 --> 00:06:54.047 we image them, we work them up,

NOTE Confidence: 0.855607974333333

00:06:54.050 --> 00:06:57.830 we do the biopsies and then many of them

NOTE Confidence: 0.855607974333333

00:06:57.830 --> 00:07:00.378 are able to have surgery at the shoreline

NOTE Confidence: 0.855607974333333

00:07:00.378 --> 00:07:02.850 at which is just wonderful for them.

NOTE Confidence: 0.855607974333333

00:07:02.850 --> 00:07:04.420 We can do wire localizations

NOTE Confidence: 0.855607974333333

00:07:04.420 --> 00:07:05.990 as we've done for years.

NOTE Confidence: 0.855607974333333

00:07:05.990 --> 00:07:09.070 This is done on the day of surgery

NOTE Confidence: 0.855607974333333

00:07:09.070 --> 00:07:10.525 and something that we've been

NOTE Confidence: 0.855607974333333

00:07:10.525 --> 00:07:13.098 doing for the last few years is a

NOTE Confidence: 0.855607974333333

00:07:13.098 --> 00:07:14.506 radio frequency tag localization.

NOTE Confidence: 0.855607974333333

00:07:14.510 --> 00:07:16.960 The advantage of this is it could

NOTE Confidence: 0.855607974333333

00:07:16.960 --> 00:07:19.440 be inserted a few days or weeks

NOTE Confidence: 0.855607974333333

00:07:19.440 --> 00:07:21.750 before surgery and then the patient.

NOTE Confidence: 0.855607974333333

00:07:21.750 --> 00:07:24.567 Need to go directly to to surgery on that

NOTE Confidence: 0.855607974333333

00:07:24.567 --> 00:07:28.470 day and so that facilitates scheduling.

NOTE Confidence: 0.855607974333333

00:07:28.470 --> 00:07:30.444 Here's an example of a shoreline patient.

NOTE Confidence: 0.855607974333333

00:07:30.450 --> 00:07:31.970 Here is her screening mammogram.

NOTE Confidence: 0.855607974333333

00:07:31.970 --> 00:07:33.650 Obvious lesion in the breast.

NOTE Confidence: 0.855607974333333

00:07:33.650 --> 00:07:35.510 She goes directly to ultrasound,

NOTE Confidence: 0.855607974333333

00:07:35.510 --> 00:07:36.910 doesn't need any extra views.

NOTE Confidence: 0.855607974333333

00:07:36.910 --> 00:07:37.934 Mammographic views.

NOTE Confidence: 0.855607974333333

00:07:37.934 --> 00:07:41.006 Ultrasound shows a highly suspicious mask.

NOTE Confidence: 0.855607974333333

00:07:41.010 --> 00:07:45.220 We then do a core biopsy and leave a marker.

NOTE Confidence: 0.855607974333333

00:07:45.220 --> 00:07:47.836 She comes back for a localization on the

NOTE Confidence: 0.855607974333333

00:07:47.836 --> 00:07:50.412 day of surgery and her specimen shows

00:07:50.412 --> 00:07:53.169 the lesion and the tag all removed.

00:07:53.170 --> 00:07:55.495 Very convenient for patients and

00:07:55.495 --> 00:07:58.450 they love it. Just in the next.

00:07:58.450 --> 00:08:01.234 The very shortly hopefully few months we

00:08:01.234 --> 00:08:03.448 are going to be starting construction

00:08:03.448 --> 00:08:06.327 and we will have expansion of our

00:08:06.327 --> 00:08:08.452 breast imaging services at Yale,

00:08:08.460 --> 00:08:11.668 which at the shoreline which is much needed,

00:08:11.670 --> 00:08:13.560 we will have an additional 3D

00:08:13.560 --> 00:08:15.480 mammography and ultrasound units.

00:08:15.480 --> 00:08:18.706 So this is going to help with patient

00:08:18.706 --> 00:08:22.297 scheduling and also in terms of the,

00:08:22.300 --> 00:08:23.316 the, the physical layout,

00:08:23.316 --> 00:08:25.211 we're going to have a direct connection

00:08:25.211 --> 00:08:26.816 with the breast surgery suite.

00:08:26.820 --> 00:08:28.476 So that permits patients to go

NOTE Confidence: 0.855607974333333

00:08:28.476 --> 00:08:29.304 back and forth.

NOTE Confidence: 0.855607974333333

00:08:29.310 --> 00:08:32.298 Because I'm happy to go out in the hallway,

NOTE Confidence: 0.855607974333333

00:08:32.300 --> 00:08:35.408 so it's really a very comprehensive.

NOTE Confidence: 0.79772939

00:08:37.770 --> 00:08:40.250 Services and wonderful for patients,

NOTE Confidence: 0.79772939

00:08:40.250 --> 00:08:43.751 they love it and I think with this expansion

NOTE Confidence: 0.79772939

00:08:43.751 --> 00:08:46.554 we'll be able to to offer even more.

NOTE Confidence: 0.79772939

00:08:46.560 --> 00:08:49.032 More, get more patients in and offer more

NOTE Confidence: 0.79772939

00:08:49.032 --> 00:08:51.178 patients to be seen at the shoreline.

NOTE Confidence: 0.79772939

00:08:51.180 --> 00:08:53.518 Just a shout out to the wonderful

NOTE Confidence: 0.79772939

00:08:53.518 --> 00:08:55.329 technologists at the shoreline who

NOTE Confidence: 0.79772939

00:08:55.329 --> 00:08:57.555 take really good care of patients.

NOTE Confidence: 0.79772939

00:08:57.560 --> 00:08:58.720 So thank you very much.

NOTE Confidence: 0.79772939

00:08:58.720 --> 00:09:01.244 Hopefully that was helpful

NOTE Confidence: 0.79772939

00:09:01.244 --> 00:09:03.490 brief brief overview. Thank

NOTE Confidence: 0.90607865875

00:09:03.500 --> 00:09:06.265 you so much Leanne and we have

NOTE Confidence: 0.90607865875

00:09:06.265 --> 00:09:07.662 patients who specifically reach

NOTE Confidence: 0.90607865875

00:09:07.662 --> 00:09:10.000 out to have you and doctor Butler?

NOTE Confidence: 0.90607865875

00:09:10.000 --> 00:09:12.115 Do their mammograms and overwhelmingly

NOTE Confidence: 0.90607865875

00:09:12.115 --> 00:09:14.230 their experience in the breast

NOTE Confidence: 0.90607865875

00:09:14.300 --> 00:09:16.020 imaging suite and Guildford?

NOTE Confidence: 0.90607865875

00:09:16.020 --> 00:09:17.580 Is is incredibly positive

NOTE Confidence: 0.90607865875

00:09:17.580 --> 00:09:19.140 and patient centered so.

NOTE Confidence: 0.90607865875

00:09:19.140 --> 00:09:21.180 Thank you for all you do.

NOTE Confidence: 0.90607865875

00:09:21.180 --> 00:09:22.745 Next up, we're going to

NOTE Confidence: 0.90607865875

00:09:22.745 --> 00:09:23.997 introduce doctor Greg Zaneski,

NOTE Confidence: 0.90607865875

00:09:24.000 --> 00:09:25.220 I'm thrilled to call him.

NOTE Confidence: 0.90607865875

00:09:25.220 --> 00:09:27.956 My partner and a member of our team,

NOTE Confidence: 0.90607865875

00:09:27.960 --> 00:09:30.010 doctors and Esky joined Yale

NOTE Confidence: 0.90607865875

00:09:30.010 --> 00:09:32.060 School of Medicine in 2019,

NOTE Confidence: 0.90607865875

00:09:32.060 --> 00:09:33.764 he's an assistant professor.

NOTE Confidence: 0.90607865875

00:09:33.764 --> 00:09:36.320 Surgical oncology and cares for women

NOTE Confidence: 0.90607865875

00:09:36.388 --> 00:09:38.632 with benign and malignant breast disease

NOTE Confidence: 0.90607865875

00:09:38.632 --> 00:09:41.618 and also men with breast related issues.

NOTE Confidence: 0.90607865875

00:09:41.620 --> 00:09:43.248 His clinical practice location

NOTE Confidence: 0.90607865875

00:09:43.248 --> 00:09:45.283 is predominantly at the Shoreline

NOTE Confidence: 0.90607865875

00:09:45.283 --> 00:09:46.820 Medical Center in Guilford,

NOTE Confidence: 0.90607865875

00:09:46.820 --> 00:09:50.310 but he also has a clinic weekly and some IT

NOTE Confidence: 0.90607865875

00:09:50.391 --> 00:09:53.799 operating room time at the New Haven site.

NOTE Confidence: 0.90607865875

00:09:53.800 --> 00:09:55.744 And he received his medical degree

NOTE Confidence: 0.90607865875

00:09:55.744 --> 00:09:57.669 from the State University of New

NOTE Confidence: 0.90607865875

00:09:57.669 --> 00:09:59.385 York at Stony Brook and completed

NOTE Confidence: 0.90607865875

00:09:59.385 --> 00:10:01.089 a fellowship in surgical oncology

NOTE Confidence: 0.90607865875

00:10:01.089 --> 00:10:02.879 at the University of Pittsburgh.

NOTE Confidence: 0.90607865875

00:10:02.880 --> 00:10:04.455 And he's going to be giving us.

NOTE Confidence: 0.90607865875

00:10:04.460 --> 00:10:08.048 And updates and breast cancer surgery.

NOTE Confidence: 0.90607865875

00:10:08.050 --> 00:10:08.776 Thank you,

NOTE Confidence: 0.90607865875

00:10:08.776 --> 00:10:09.139 Greg.

NOTE Confidence: 0.546841385

00:10:17.020 --> 00:10:20.430 Good. Thank you, Rachel. Look at

NOTE Confidence: 0.818510215

00:10:20.440 --> 00:10:21.820 the share my screen.

NOTE Confidence: 0.95629686

00:10:24.780 --> 00:10:25.370 OK.

NOTE Confidence: 0.95740778

00:10:28.710 --> 00:10:31.430 Thank you very much Rachel and and

NOTE Confidence: 0.95740778

00:10:31.430 --> 00:10:33.710 thank you everybody for attending

NOTE Confidence: 0.900367865

00:10:33.797 --> 00:10:35.525 on a on a rainy night.

NOTE Confidence: 0.900367865

00:10:35.530 --> 00:10:37.874 But my goal is tonight is to talk

NOTE Confidence: 0.900367865

00:10:37.874 --> 00:10:39.852 about breast surgery you know here

NOTE Confidence: 0.900367865

00:10:39.852 --> 00:10:41.838 at Guildford and also you know

NOTE Confidence: 0.900367865

00:10:41.909 --> 00:10:44.450 how we integrate it throughout

NOTE Confidence: 0.900367865

00:10:44.450 --> 00:10:45.970 the system here at smilow.

NOTE Confidence: 0.846369253846154

00:10:48.350 --> 00:10:51.325 So here's our our grant institution here

NOTE Confidence: 0.846369253846154

00:10:51.325 --> 00:10:54.169 at Shoreline and as Doctor Philpotts,

NOTE Confidence: 0.846369253846154

00:10:54.170 --> 00:10:56.222 you know, describe very well the

NOTE Confidence: 0.846369253846154

00:10:56.222 --> 00:10:58.362 amount of breast imaging that's done

NOTE Confidence: 0.846369253846154

00:10:58.362 --> 00:11:00.480 here and also the various findings.

NOTE Confidence: 0.846369253846154

00:11:00.480 --> 00:11:02.454 You know that we can come

NOTE Confidence: 0.846369253846154

00:11:02.454 --> 00:11:03.770 across not all malignant,

NOTE Confidence: 0.846369253846154

00:11:03.770 --> 00:11:06.422 sometimes benign or needing close follow

NOTE Confidence: 0.846369253846154

00:11:06.422 --> 00:11:09.693 up and surgery is an important component

NOTE Confidence: 0.846369253846154

00:11:09.693 --> 00:11:13.004 for helping integrate that at times and

NOTE Confidence: 0.846369253846154

00:11:13.083 --> 00:11:15.790 of course our multidisciplinary team

NOTE Confidence: 0.846369253846154

00:11:15.790 --> 00:11:19.126 which will be talked about further.

NOTE Confidence: 0.846369253846154

00:11:19.130 --> 00:11:21.770 So this is a picture of our surgical

NOTE Confidence: 0.846369253846154

00:11:21.770 --> 00:11:24.470 clinic and you know I think a lot of

NOTE Confidence: 0.846369253846154

00:11:24.470 --> 00:11:26.929 times with the with surgery we think

NOTE Confidence: 0.846369253846154

00:11:26.929 --> 00:11:29.245 about that it's a for malignancy.

NOTE Confidence: 0.846369253846154

00:11:29.250 --> 00:11:31.707 But I think a big part of our day

NOTE Confidence: 0.846369253846154

00:11:31.707 --> 00:11:34.046 including our nurse practitioners here at

NOTE Confidence: 0.846369253846154

00:11:34.046 --> 00:11:36.620 Guildford is things like benign disease.

NOTE Confidence: 0.609698163333333

00:11:36.670 --> 00:11:38.980 We can't see your slides.

NOTE Confidence: 0.82775805

00:11:41.770 --> 00:11:45.490 No, no. Sorry about that.

NOTE Confidence: 0.82037903

00:11:45.600 --> 00:11:47.240 Sorry, sorry about that.

NOTE Confidence: 0.963136485

00:11:47.960 --> 00:11:48.988 Can you try again?

NOTE Confidence: 0.839287393333333

00:11:49.680 --> 00:11:53.750 Yeah, let me. Escape, yeah.

NOTE Confidence: 0.5182581

00:11:58.520 --> 00:11:59.580 Yeah, share.

NOTE Confidence: 0.84800222

00:12:07.530 --> 00:12:08.430 Is that better?

NOTE Confidence: 0.92630425

00:12:13.310 --> 00:12:14.110 Can you see that?

NOTE Confidence: 0.95063041375

00:12:19.930 --> 00:12:21.354 Do you want to send them to me

NOTE Confidence: 0.926588495555556

00:12:21.370 --> 00:12:23.491 and I can share them from my

NOTE Confidence: 0.926588495555556

00:12:23.491 --> 00:12:25.570 my computer? Sorry about that.

NOTE Confidence: 0.9082484

00:13:02.020 --> 00:13:03.250 OK. So I got them. Greg,

NOTE Confidence: 0.933861713333333

00:13:03.250 --> 00:13:04.671 why don't you go ahead and keep

NOTE Confidence: 0.933861713333333

00:13:04.671 --> 00:13:07.248 talking and I'll pull them up here.

NOTE Confidence: 0.752807322

00:13:07.860 --> 00:13:09.210 Sorry about that. I don't

NOTE Confidence: 0.752807322

00:13:09.210 --> 00:13:10.560 know why it's not sharing.

NOTE Confidence: 0.81109915

00:13:22.570 --> 00:13:24.640 Alright, I think maybe now

NOTE Confidence: 0.665459663333333

00:13:24.810 --> 00:13:26.220 we can. Now

NOTE Confidence: 0.91216684

00:13:26.230 --> 00:13:27.058 we can see it.

NOTE Confidence: 0.64943756

00:13:27.640 --> 00:13:28.868 Sorry about that everybody.

NOTE Confidence: 0.642499095

00:13:30.320 --> 00:13:32.528 Right. Yeah. So you know again

NOTE Confidence: 0.882315219444445

00:13:32.540 --> 00:13:34.430 this is the clinic and you know

NOTE Confidence: 0.882315219444445

00:13:34.430 --> 00:13:36.760 what we see with our our nurse

NOTE Confidence: 0.882315219444445

00:13:36.760 --> 00:13:38.208 practitioners or or things,

NOTE Confidence: 0.882315219444445

00:13:38.210 --> 00:13:40.278 you know benign disease,

NOTE Confidence: 0.882315219444445

00:13:40.278 --> 00:13:43.380 you know palpable masses that patients

NOTE Confidence: 0.882315219444445

00:13:43.465 --> 00:13:46.748 may feel or if various imaging findings,

NOTE Confidence: 0.882315219444445

00:13:46.750 --> 00:13:49.466 you know things that require a close

NOTE Confidence: 0.882315219444445

00:13:49.466 --> 00:13:51.893 interval follow up will work with

NOTE Confidence: 0.882315219444445

00:13:51.893 --> 00:13:53.868 radiology to follow those patients

NOTE Confidence: 0.882315219444445

00:13:53.868 --> 00:13:56.467 or the wealth of biopsies can often

NOTE Confidence: 0.882315219444445

00:13:56.467 --> 00:13:59.024 be benign and how do you interpret

NOTE Confidence: 0.882315219444445

00:13:59.024 --> 00:14:01.908 them as your primary care or OBGYN.

NOTE Confidence: 0.882315219444445

00:14:01.910 --> 00:14:04.328 Positions you know what is a

NOTE Confidence: 0.882315219444445

00:14:04.328 --> 00:14:06.742 papilloma need or what type of

NOTE Confidence: 0.882315219444445

00:14:06.742 --> 00:14:09.366 follow up a library card inside you.

NOTE Confidence: 0.882315219444445

00:14:09.366 --> 00:14:12.222 We're very happy to see those patients

NOTE Confidence: 0.882315219444445

00:14:12.222 --> 00:14:15.604 and you know talk about the different

NOTE Confidence: 0.882315219444445

00:14:15.604 --> 00:14:17.920 management surgical options or even

NOTE Confidence: 0.882315219444445

00:14:17.920 --> 00:14:20.520 screening strategies and of course

NOTE Confidence: 0.882315219444445

00:14:20.520 --> 00:14:22.911 breast malignancy of course which you

NOTE Confidence: 0.882315219444445

00:14:22.911 --> 00:14:25.508 know breast surgeons are are both kind

NOTE Confidence: 0.882315219444445

00:14:25.508 --> 00:14:27.720 of associated with clinical trials.

NOTE Confidence: 0.882315219444445

00:14:27.720 --> 00:14:30.522 We enroll patients in our various

NOTE Confidence: 0.882315219444445

00:14:30.522 --> 00:14:32.850 surgical clinical trials and even.

NOTE Confidence: 0.882315219444445

00:14:32.850 --> 00:14:35.370 Follow those patients up and

NOTE Confidence: 0.882315219444445

00:14:35.370 --> 00:14:37.386 coordinate the necessary imaging

NOTE Confidence: 0.882315219444445

00:14:37.386 --> 00:14:39.957 regarding the clinical trial protocol.

NOTE Confidence: 0.882315219444445

00:14:39.960 --> 00:14:43.159 And you know with the the cooperation

NOTE Confidence: 0.882315219444445

00:14:43.159 --> 00:14:44.073 of radiology,

NOTE Confidence: 0.882315219444445

00:14:44.080 --> 00:14:46.160 we're able to offer surveillance,

NOTE Confidence: 0.882315219444445

00:14:46.160 --> 00:14:48.393 clinical exams for instance you know women

NOTE Confidence: 0.882315219444445

00:14:48.393 --> 00:14:50.560 who have undergone breast cancer surgery,

NOTE Confidence: 0.882315219444445

00:14:50.560 --> 00:14:51.654 radiation therapy,

NOTE Confidence: 0.882315219444445

00:14:51.654 --> 00:14:54.389 oncology therapy and then it's

NOTE Confidence: 0.882315219444445

00:14:54.389 --> 00:14:57.516 time for annual follow-up how much

NOTE Confidence: 0.882315219444445

00:14:57.516 --> 00:14:59.424 imaging is needed and we're happy

NOTE Confidence: 0.882315219444445

00:14:59.424 --> 00:15:01.662 to see our patients for clinical

NOTE Confidence: 0.882315219444445

00:15:01.662 --> 00:15:03.577 exam and coordinate the follow

NOTE Confidence: 0.882315219444445

00:15:03.577 --> 00:15:05.720 up mammogram on the same day.

NOTE Confidence: 0.882315219444445

00:15:05.720 --> 00:15:07.344 A good portion of my clinic today

NOTE Confidence: 0.882315219444445

00:15:07.344 --> 00:15:08.977 was seeing some of our patients who

NOTE Confidence: 0.882315219444445

00:15:08.977 --> 00:15:10.790 are one year follow up with same day.

NOTE Confidence: 0.882315219444445

00:15:10.790 --> 00:15:13.471 Imaging and patients seem to be very

NOTE Confidence: 0.882315219444445

00:15:13.471 --> 00:15:15.761 happy to bundle those visits and

NOTE Confidence: 0.882315219444445

00:15:15.761 --> 00:15:18.681 make one trip to see the search and

NOTE Confidence: 0.882315219444445

00:15:18.681 --> 00:15:20.889 then the the radiologists on one

NOTE Confidence: 0.882315219444445

00:15:20.889 --> 00:15:23.604 day take less time off from work,

NOTE Confidence: 0.882315219444445

00:15:23.604 --> 00:15:26.010 family and all the other busy

NOTE Confidence: 0.882315219444445

00:15:26.092 --> 00:15:27.330 things and also.

NOTE Confidence: 0.924669505

00:15:30.130 --> 00:15:32.241 OK. Yeah. Yeah, we can't.

NOTE Confidence: 0.924669505

00:15:32.241 --> 00:15:34.040 We are stuck on the title slide.

NOTE Confidence: 0.90784943

00:15:36.370 --> 00:15:40.159 OK. Real connectivity that.

NOTE Confidence: 0.7455934

00:15:43.170 --> 00:15:44.349 Are they advancing now?

NOTE Confidence: 0.78707952

00:15:49.360 --> 00:15:51.538 You see surgical clinic slide?

NOTE Confidence: 0.78707952

00:15:51.540 --> 00:15:54.594 No, no, I'll try and pull them

NOTE Confidence: 0.78707952

00:15:54.594 --> 00:15:56.690 up here, Greg. Thank you.

NOTE Confidence: 0.78951606

00:16:00.310 --> 00:16:01.750 I'll stop sharing.

NOTE Confidence: 0.783316

00:16:11.510 --> 00:16:13.710 Apologies to the audience. Thank you

NOTE Confidence: 0.78811116

00:16:13.720 --> 00:16:15.070 for your patience.

NOTE Confidence: 0.90931463

00:16:16.900 --> 00:16:17.310 Yeah.

NOTE Confidence: 0.845175955714286

00:16:18.680 --> 00:16:21.228 And it's not stopping the sharing either.

NOTE Confidence: 0.920403788333333

00:16:31.350 --> 00:16:33.420 Well, in the interest of time, why don't

NOTE Confidence: 0.900537588

00:16:33.430 --> 00:16:35.650 we move forward with medical oncology

NOTE Confidence: 0.900537588

00:16:35.650 --> 00:16:38.236 and then we'll come back or Doctor

NOTE Confidence: 0.900537588

00:16:38.236 --> 00:16:40.300 Butler from plastic surgery and we

NOTE Confidence: 0.900537588

00:16:40.300 --> 00:16:42.992 can come back to your slides when we

NOTE Confidence: 0.900537588

00:16:42.992 --> 00:16:45.278 get the technical issues worked out.

NOTE Confidence: 0.900537588

00:16:45.278 --> 00:16:48.950 Doctor Butler, Are you ready and loaded?

NOTE Confidence: 0.7968582225

00:16:50.580 --> 00:16:52.676 So I'm going to share my screen too.

NOTE Confidence: 0.7968582225

00:16:52.680 --> 00:16:54.588 Don't have the same challenge, but I'm ready.

NOTE Confidence: 0.906935142

00:16:54.920 --> 00:16:56.640 I'm gonna introduce Doctor Butler.

NOTE Confidence: 0.906935142

00:16:56.640 --> 00:16:59.238 He's an associate professor of surgery

NOTE Confidence: 0.906935142

00:16:59.238 --> 00:17:01.540 in plastics and reconstructive surgery,

NOTE Confidence: 0.906935142

00:17:01.540 --> 00:17:03.316 and he's the inaugural Yale Department

NOTE Confidence: 0.906935142

00:17:03.316 --> 00:17:05.199 of Surgery vice Chair of Diversity,

NOTE Confidence: 0.906935142

00:17:05.200 --> 00:17:06.860 Equity and Inclusion.

NOTE Confidence: 0.906935142

00:17:06.860 --> 00:17:08.750 He's board certified both by the

NOTE Confidence: 0.906935142

00:17:08.750 --> 00:17:10.659 American Board of Surgery and the

NOTE Confidence: 0.906935142

00:17:10.659 --> 00:17:12.423 American Board of Plastic Surgery and

NOTE Confidence: 0.906935142

00:17:12.423 --> 00:17:14.750 a Fellow of the American College of

NOTE Confidence: 0.906935142

00:17:14.750 --> 00:17:16.435 Surgeons and his clinical interests

NOTE Confidence: 0.906935142

00:17:16.440 --> 00:17:19.392 are in breast reconstruction and body

NOTE Confidence: 0.906935142

00:17:19.392 --> 00:17:21.360 contouring after bariatric surgery.

NOTE Confidence: 0.906935142

00:17:21.360 --> 00:17:24.648 Reductions left scars and aesthetic surgery,

NOTE Confidence: 0.906935142

00:17:24.650 --> 00:17:26.354 and we're thrilled to have him

NOTE Confidence: 0.906935142

00:17:26.354 --> 00:17:27.490 on our Yale team.

NOTE Confidence: 0.906935142

00:17:27.490 --> 00:17:29.060 So take it away, Paris,

NOTE Confidence: 0.8715973625

00:17:29.140 --> 00:17:30.090 thank you very much for

NOTE Confidence: 0.8715973625

00:17:30.090 --> 00:17:30.660 the kind introduction.

NOTE Confidence: 0.8715973625

00:17:30.660 --> 00:17:31.548 I'm going to share my screen.

NOTE Confidence: 0.8715973625

00:17:31.550 --> 00:17:32.170 Maybe, Rachel.

NOTE Confidence: 0.8715973625

00:17:32.170 --> 00:17:34.954 Just give me a thumbs up if you can

NOTE Confidence: 0.8715973625

00:17:34.954 --> 00:17:36.950 see my screen when the time comes.

NOTE Confidence: 0.8368552

00:17:41.410 --> 00:17:44.330 Excellent. Looks great, wonderful.

NOTE Confidence: 0.868036085

00:17:46.560 --> 00:17:47.925 So thanks for allowing me

NOTE Confidence: 0.868036085

00:17:47.925 --> 00:17:49.290 to join you this evening.

NOTE Confidence: 0.868036085

00:17:49.290 --> 00:17:52.182 I have most recently been recruited

NOTE Confidence: 0.868036085

00:17:52.182 --> 00:17:54.053 to Yale plastic surgery from

NOTE Confidence: 0.868036085

00:17:54.053 --> 00:17:55.257 the University of Pennsylvania.

NOTE Confidence: 0.868036085

00:17:55.260 --> 00:17:56.424 I've been on faculty here for

NOTE Confidence: 0.868036085

00:17:56.424 --> 00:17:57.530 a little over five months,

NOTE Confidence: 0.868036085

00:17:57.530 --> 00:17:59.287 kind of hard to believe and really

NOTE Confidence: 0.868036085

00:17:59.287 --> 00:18:01.080 fortunate to join an outstanding group

NOTE Confidence: 0.868036085

00:18:01.080 --> 00:18:03.048 of plastic surgeons within our division.

NOTE Confidence: 0.868036085

00:18:03.050 --> 00:18:05.420 We are growing our division

NOTE Confidence: 0.868036085

00:18:05.420 --> 00:18:06.368 rather significantly.

NOTE Confidence: 0.868036085

00:18:06.370 --> 00:18:08.280 We have six plastic surgeons

NOTE Confidence: 0.868036085

00:18:08.280 --> 00:18:09.426 amongst our faculty.

NOTE Confidence: 0.868036085

00:18:09.430 --> 00:18:11.565 We have a faculty of 12 now,

NOTE Confidence: 0.868036085

00:18:11.570 --> 00:18:12.750 which is rapidly grown in

NOTE Confidence: 0.868036085

00:18:12.750 --> 00:18:14.290 the last four or five years.

NOTE Confidence: 0.868036085

00:18:14.290 --> 00:18:16.050 Our chief is Bo Pomahac,

NOTE Confidence: 0.868036085

00:18:16.050 --> 00:18:16.900 so all six of these.

NOTE Confidence: 0.868036085

00:18:16.900 --> 00:18:18.604 Individuals perform plastic and

NOTE Confidence: 0.868036085

00:18:18.604 --> 00:18:21.470 reconstructive surgery on breast in one way,

NOTE Confidence: 0.868036085

00:18:21.470 --> 00:18:22.769 shape or form.

NOTE Confidence: 0.868036085

00:18:22.769 --> 00:18:25.367 The majority of us do reconstructive

NOTE Confidence: 0.868036085

00:18:25.367 --> 00:18:28.174 surgery as well on breast and I

NOTE Confidence: 0.868036085

00:18:28.174 --> 00:18:31.240 would say that is all about 50%

NOTE Confidence: 0.868036085

00:18:31.240 --> 00:18:32.990 of my practice in particular.

NOTE Confidence: 0.868036085

00:18:32.990 --> 00:18:34.292 So we have Obama hawk who is

NOTE Confidence: 0.868036085

00:18:34.292 --> 00:18:34.850 our division chief.

NOTE Confidence: 0.868036085

00:18:34.850 --> 00:18:38.126 We have doctor Hari, Ayala myself here,

NOTE Confidence: 0.868036085

00:18:38.130 --> 00:18:39.546 Doctor Melissa Mastriani,

NOTE Confidence: 0.868036085

00:18:39.546 --> 00:18:41.906 Dr Peck and Doctor Vasquez,

NOTE Confidence: 0.868036085

00:18:41.910 --> 00:18:43.554 myself, doctor Pomahac,

NOTE Confidence: 0.868036085

00:18:43.554 --> 00:18:47.330 Dr Ayala and Doctor Peck will be at.

NOTE Confidence: 0.868036085

00:18:47.330 --> 00:18:49.700 Shoreline facilities more times than not.

NOTE Confidence: 0.868036085

00:18:49.700 --> 00:18:51.940 So we are delighted to care for this,

NOTE Confidence: 0.868036085

00:18:51.940 --> 00:18:54.406 for this Community and this patient

NOTE Confidence: 0.868036085

00:18:54.406 --> 00:18:57.928 population over the next I would say.

NOTE Confidence: 0.868036085

00:18:57.930 --> 00:18:58.410 10 minutes,

NOTE Confidence: 0.868036085

00:18:58.410 --> 00:18:59.850 I'll try to keep it brief.

NOTE Confidence: 0.868036085

00:18:59.850 --> 00:19:01.374 It's really difficult to give an

NOTE Confidence: 0.868036085

00:19:01.374 --> 00:19:02.720 overview of plastic and reconstructive

NOTE Confidence: 0.868036085

00:19:02.720 --> 00:19:04.666 surgery in in eight to 10 minutes,

NOTE Confidence: 0.868036085

00:19:04.670 --> 00:19:06.042 but I'm going to do my best

NOTE Confidence: 0.868036085

00:19:06.042 --> 00:19:07.570 to to kind of keep it there.

NOTE Confidence: 0.868036085

00:19:07.570 --> 00:19:09.705 So as it pertains to the the

NOTE Confidence: 0.868036085

00:19:09.705 --> 00:19:12.469 goal of a breast reconstruction,

NOTE Confidence: 0.868036085

00:19:12.470 --> 00:19:14.747 as many of you all know it's to to

NOTE Confidence: 0.868036085

00:19:14.747 --> 00:19:16.870 restore breast appearance and clothes.

NOTE Confidence: 0.868036085

00:19:16.870 --> 00:19:19.276 We say as we're setting expectations

NOTE Confidence: 0.868036085

00:19:19.276 --> 00:19:21.946 with our patients and we don't try

NOTE Confidence: 0.868036085

00:19:21.946 --> 00:19:23.658 to oversell what our capacity is,

NOTE Confidence: 0.868036085

00:19:23.658 --> 00:19:25.507 but we also try to provide a

NOTE Confidence: 0.868036085

00:19:25.507 --> 00:19:27.211 a nice light at the end of the

NOTE Confidence: 0.868036085

00:19:27.211 --> 00:19:28.468 tunnel as it pertains to.

NOTE Confidence: 0.868036085

00:19:28.470 --> 00:19:29.208 The, the,

NOTE Confidence: 0.868036085

00:19:29.208 --> 00:19:31.053 the duration of the completion

NOTE Confidence: 0.868036085

00:19:31.053 --> 00:19:33.240 of their their oncologic care.

NOTE Confidence: 0.868036085

00:19:33.240 --> 00:19:34.560 So in my opinion,

NOTE Confidence: 0.868036085

00:19:34.560 --> 00:19:36.540 I think we can do honestly,

NOTE Confidence: 0.868036085

00:19:36.540 --> 00:19:38.508 I think we can do better than just

NOTE Confidence: 0.868036085

00:19:38.508 --> 00:19:40.519 getting them to appear normal in clothes.

NOTE Confidence: 0.868036085

00:19:40.520 --> 00:19:42.455 I think we can get them to to restore

NOTE Confidence: 0.868036085

00:19:42.455 --> 00:19:44.520 their breast appearance in a bathing suit.

NOTE Confidence: 0.868036085

00:19:44.520 --> 00:19:44.809 However,

NOTE Confidence: 0.868036085

00:19:44.809 --> 00:19:47.121 we do let them know once that bathing

NOTE Confidence: 0.868036085

00:19:47.121 --> 00:19:49.006 suit is removed and underwear is

NOTE Confidence: 0.868036085

00:19:49.006 --> 00:19:51.192 removed that they will see their their

NOTE Confidence: 0.868036085

00:19:51.192 --> 00:19:53.820 scars and such how often is it performed.

NOTE Confidence: 0.868036085

00:19:53.820 --> 00:19:56.956 So if you look at the the national

NOTE Confidence: 0.868036085

00:19:56.956 --> 00:19:58.668 data about 65% of the time.

NOTE Confidence: 0.868036085

00:19:58.668 --> 00:19:59.364 In the US,

NOTE Confidence: 0.868036085

00:19:59.370 --> 00:20:01.506 formal breast reconstruction is

NOTE Confidence: 0.868036085

00:20:01.506 --> 00:20:04.176 performed in post mastectomy patients.

NOTE Confidence: 0.868036085

00:20:04.180 --> 00:20:07.476 So that equates to about 138,000

NOTE Confidence: 0.868036085

00:20:07.476 --> 00:20:08.874 breast reconstruction procedures

NOTE Confidence: 0.868036085

00:20:08.874 --> 00:20:10.738 that are performed annually.

NOTE Confidence: 0.868036085

00:20:10.740 --> 00:20:13.421 This is data from 2020 and the

NOTE Confidence: 0.868036085

00:20:13.421 --> 00:20:15.498 numbers continue to just go up,

NOTE Confidence: 0.868036085

00:20:15.500 --> 00:20:17.719 which I obviously is a plastic surgeon.

NOTE Confidence: 0.868036085

00:20:17.720 --> 00:20:20.654 I'm biased. I think it's a really good thing.

NOTE Confidence: 0.868036085

00:20:20.660 --> 00:20:21.490 Unfortunately though,

NOTE Confidence: 0.868036085

00:20:21.490 --> 00:20:24.000 this varies according to age, race,

NOTE Confidence: 0.868036085

00:20:24.000 --> 00:20:25.720 ethnicity and insurance status.

NOTE Confidence: 0.868036085

00:20:25.720 --> 00:20:27.412 While I was at the University

NOTE Confidence: 0.868036085

00:20:27.412 --> 00:20:27.976 of Pennsylvania,

NOTE Confidence: 0.868036085

00:20:27.980 --> 00:20:29.666 we actually looked at who was

NOTE Confidence: 0.868036085

00:20:29.666 --> 00:20:30.509 getting breast reconstruction

NOTE Confidence: 0.868036085

00:20:30.509 --> 00:20:32.056 to determine what the rates were

NOTE Confidence: 0.868036085

00:20:32.056 --> 00:20:33.610 and also to determine if there

NOTE Confidence: 0.868036085

00:20:33.610 --> 00:20:35.015 are any patient populations that

NOTE Confidence: 0.868036085

00:20:35.015 --> 00:20:36.139 were not getting breast

NOTE Confidence: 0.855091302857143

00:20:36.140 --> 00:20:37.610 reconstruction at the same rate as others.

NOTE Confidence: 0.855091302857143

00:20:37.610 --> 00:20:40.508 And what we identified when we looked

NOTE Confidence: 0.855091302857143

00:20:40.508 --> 00:20:43.370 at national data over A6 year period,

NOTE Confidence: 0.855091302857143

00:20:43.370 --> 00:20:44.690 48,000 patients, we identify that

NOTE Confidence: 0.855091302857143

00:20:44.690 --> 00:20:46.626 there are two subsets of the Community

NOTE Confidence: 0.855091302857143

00:20:46.626 --> 00:20:48.036 that don't get breast reconstruction

NOTE Confidence: 0.855091302857143

00:20:48.036 --> 00:20:49.620 at the same rate as others.

NOTE Confidence: 0.855091302857143

00:20:49.620 --> 00:20:51.450 Those are more. Seasoned ladies,

NOTE Confidence: 0.855091302857143

00:20:51.450 --> 00:20:53.018 no one likes to be called old.

NOTE Confidence: 0.855091302857143

00:20:53.020 --> 00:20:56.140 So our ladies over 45 and then unfortunately

NOTE Confidence: 0.855091302857143

00:20:56.140 --> 00:20:58.942 our ladies of color and namely our

NOTE Confidence: 0.855091302857143

00:20:58.942 --> 00:21:01.390 African American and our Latino women.

NOTE Confidence: 0.855091302857143

00:21:01.390 --> 00:21:03.574 And then when we look at insurance status,

NOTE Confidence: 0.855091302857143

00:21:03.580 --> 00:21:06.238 probably not a surprise that uninsured

NOTE Confidence: 0.855091302857143

00:21:06.240 --> 00:21:07.605 women would not receive breast

NOTE Confidence: 0.855091302857143

00:21:07.605 --> 00:21:09.459 reconstruction at the same rate as others.

NOTE Confidence: 0.855091302857143

00:21:09.460 --> 00:21:10.700 But we've also identified

NOTE Confidence: 0.855091302857143

00:21:10.700 --> 00:21:11.940 the fact that unfortunately,

NOTE Confidence: 0.855091302857143

00:21:11.940 --> 00:21:14.610 women who have public insurance don't

NOTE Confidence: 0.855091302857143

00:21:14.610 --> 00:21:17.185 receive breast reconstruction at the rate

NOTE Confidence: 0.855091302857143

00:21:17.185 --> 00:21:19.375 as those that have private insurance.

NOTE Confidence: 0.855091302857143

00:21:19.380 --> 00:21:21.492 This is a soft spot for me because

NOTE Confidence: 0.855091302857143

00:21:21.492 --> 00:21:24.206 I do a lot of disparity research

NOTE Confidence: 0.855091302857143

00:21:24.206 --> 00:21:25.475 and scholastic effort,

NOTE Confidence: 0.855091302857143

00:21:25.480 --> 00:21:27.152 but I I do think that this is

NOTE Confidence: 0.855091302857143

00:21:27.152 --> 00:21:28.489 something that has been understated

NOTE Confidence: 0.855091302857143

00:21:28.489 --> 00:21:30.229 and something that needs to be

NOTE Confidence: 0.855091302857143

00:21:30.229 --> 00:21:31.470 addressed kind of nationwide.

NOTE Confidence: 0.855091302857143

00:21:31.470 --> 00:21:33.790 I'm going to do my best here at

NOTE Confidence: 0.855091302857143

00:21:33.790 --> 00:21:35.822 Yale University to help push that

NOTE Confidence: 0.855091302857143

00:21:35.822 --> 00:21:37.898 envelope and push that needle forward.

NOTE Confidence: 0.855091302857143

00:21:37.900 --> 00:21:39.846 So what is the best timing for

NOTE Confidence: 0.855091302857143

00:21:39.846 --> 00:21:41.333 reconstruction? Pretty much anytime.

NOTE Confidence: 0.855091302857143

00:21:41.333 --> 00:21:42.536 Immediate or delayed,

NOTE Confidence: 0.855091302857143

00:21:42.540 --> 00:21:44.310 or typically both an option.

NOTE Confidence: 0.855091302857143

00:21:44.310 --> 00:21:45.183 There's been good,

NOTE Confidence: 0.855091302857143

00:21:45.183 --> 00:21:46.638 really good literature out there

NOTE Confidence: 0.855091302857143

00:21:46.638 --> 00:21:48.346 describing the fact that when a woman

NOTE Confidence: 0.855091302857143

00:21:48.346 --> 00:21:49.893 wakes up from a mastectomy and has

NOTE Confidence: 0.855091302857143

00:21:49.893 --> 00:21:51.363 the semblance of a breast mount it,

NOTE Confidence: 0.855091302857143

00:21:51.370 --> 00:21:53.590 it can be helpful emotionally,

NOTE Confidence: 0.855091302857143

00:21:53.590 --> 00:21:55.110 socially, psychologically.

NOTE Confidence: 0.855091302857143

00:21:55.110 --> 00:21:57.390 And even functionally.

NOTE Confidence: 0.855091302857143

00:21:57.390 --> 00:21:59.987 So I would say it's probably strong

NOTE Confidence: 0.855091302857143

00:21:59.987 --> 00:22:02.625 language language to say that it is gold

NOTE Confidence: 0.855091302857143

00:22:02.625 --> 00:22:04.950 standard to have it done immediately,

NOTE Confidence: 0.855091302857143

00:22:04.950 --> 00:22:06.552 but it is more common occurrence

NOTE Confidence: 0.855091302857143

00:22:06.552 --> 00:22:09.162 for us to now do it in an immediate

NOTE Confidence: 0.855091302857143

00:22:09.162 --> 00:22:11.170 setting rather than a delayed setting.

NOTE Confidence: 0.855091302857143

00:22:11.170 --> 00:22:11.995 That being said,

NOTE Confidence: 0.855091302857143

00:22:11.995 --> 00:22:13.920 we can offer and do offer breast

NOTE Confidence: 0.855091302857143

00:22:13.984 --> 00:22:16.009 reconstruction in a delayed setting,

NOTE Confidence: 0.855091302857143

00:22:16.010 --> 00:22:19.286 so anytime after that initial mastectomy.

NOTE Confidence: 0.855091302857143

00:22:19.290 --> 00:22:20.574 Who's the candidate?

NOTE Confidence: 0.855091302857143

00:22:20.574 --> 00:22:21.430 Free construction,

NOTE Confidence: 0.855091302857143

00:22:21.430 --> 00:22:23.646 I would say the vast majority of patients.

NOTE Confidence: 0.855091302857143

00:22:23.650 --> 00:22:25.288 So any woman who has had or

NOTE Confidence: 0.855091302857143

00:22:25.288 --> 00:22:27.130 is going to have a mastectomy,

NOTE Confidence: 0.855091302857143

00:22:27.130 --> 00:22:28.948 there's really no specific age limit.

NOTE Confidence: 0.855091302857143

00:22:28.950 --> 00:22:30.732 Women over 60 are welcome to

NOTE Confidence: 0.855091302857143

00:22:30.732 --> 00:22:32.579 inquire and I recommend to my

NOTE Confidence: 0.855091302857143

00:22:32.579 --> 00:22:34.084 breast surgeons that any woman,

NOTE Confidence: 0.855091302857143

00:22:34.090 --> 00:22:36.298 regardless or agnostic of of age,

NOTE Confidence: 0.855091302857143

00:22:36.300 --> 00:22:36.622 race,

NOTE Confidence: 0.855091302857143

00:22:36.622 --> 00:22:36.944 ethnicity,

NOTE Confidence: 0.855091302857143

00:22:36.944 --> 00:22:39.198 have an appointment or consultation with one

NOTE Confidence: 0.855091302857143

00:22:39.198 --> 00:22:41.689 of those plastic and reconstructive surgeons.

NOTE Confidence: 0.855091302857143

00:22:41.690 --> 00:22:42.743 Breast reconstruction is

NOTE Confidence: 0.855091302857143

00:22:42.743 --> 00:22:43.796 covered by insurance.

NOTE Confidence: 0.855091302857143

00:22:43.800 --> 00:22:45.544 I get this question all the time when

NOTE Confidence: 0.855091302857143

00:22:45.544 --> 00:22:47.608 I'm out in the community talking about

NOTE Confidence: 0.855091302857143

00:22:47.608 --> 00:22:49.552 breast reconstruction and doing my best

NOTE Confidence: 0.855091302857143

00:22:49.552 --> 00:22:51.127 to enhance breast health literacy.

NOTE Confidence: 0.855091302857143

00:22:51.130 --> 00:22:52.930 Our country did a wonderful thing.

NOTE Confidence: 0.855091302857143

00:22:52.930 --> 00:22:53.978 In the late 90s,

NOTE Confidence: 0.855091302857143

00:22:53.978 --> 00:22:55.894 our legislators in DC passed the Women's

NOTE Confidence: 0.855091302857143

00:22:55.894 --> 00:22:57.903 Health and Cancer Rights Act of 98,

NOTE Confidence: 0.855091302857143

00:22:57.910 --> 00:23:00.910 which mandated that insurance companies,

NOTE Confidence: 0.855091302857143

00:23:00.910 --> 00:23:03.202 if a woman has medical insurance

NOTE Confidence: 0.855091302857143

00:23:03.202 --> 00:23:05.958 that's covering her, her surgical care,

NOTE Confidence: 0.855091302857143

00:23:05.958 --> 00:23:07.030 lumpectomy, mastectomy,

NOTE Confidence: 0.855091302857143

00:23:07.030 --> 00:23:10.022 radiation medical or medical

NOTE Confidence: 0.855091302857143

00:23:10.022 --> 00:23:11.518 oncology chemotherapy,

NOTE Confidence: 0.855091302857143

00:23:11.520 --> 00:23:13.435 they are also mandated to

NOTE Confidence: 0.855091302857143

00:23:13.435 --> 00:23:14.584 cover breast reconstruction.

NOTE Confidence: 0.855091302857143

00:23:14.590 --> 00:23:16.228 For the duration of their life,

NOTE Confidence: 0.855091302857143

00:23:16.230 --> 00:23:18.020 and that also includes a

NOTE Confidence: 0.855091302857143

00:23:18.020 --> 00:23:19.452 balancing operation on say,

NOTE Confidence: 0.855091302857143

00:23:19.460 --> 00:23:20.618 the contralateral side.

NOTE Confidence: 0.855091302857143

00:23:20.618 --> 00:23:23.320 Patient suffers from a left sided cancer,

NOTE Confidence: 0.855091302857143

00:23:23.320 --> 00:23:24.650 has a left sided mastectomy.

NOTE Confidence: 0.872759584285714

00:23:24.650 --> 00:23:26.379 We do reconstruction on the left side.

NOTE Confidence: 0.872759584285714

00:23:26.380 --> 00:23:28.110 Their insurance company is mandated

NOTE Confidence: 0.872759584285714

00:23:28.110 --> 00:23:30.595 for me to also perform a balance

NOTE Confidence: 0.872759584285714

00:23:30.595 --> 00:23:32.653 and procedure on that opposite side.

NOTE Confidence: 0.872759584285714

00:23:32.660 --> 00:23:34.820 So as breast reconstruction safe,

NOTE Confidence: 0.872759584285714

00:23:34.820 --> 00:23:37.620 this has come under a bit of attack of late,

NOTE Confidence: 0.872759584285714

00:23:37.620 --> 00:23:39.495 particularly as it pertains to

NOTE Confidence: 0.872759584285714

00:23:39.495 --> 00:23:40.620 implant based reconstruction.

NOTE Confidence: 0.872759584285714

00:23:40.620 --> 00:23:42.660 So before I get to that,

NOTE Confidence: 0.872759584285714

00:23:42.660 --> 00:23:44.256 I just want to comment that brush

NOTE Confidence: 0.872759584285714

00:23:44.256 --> 00:23:45.406 reconstruction does not make the

NOTE Confidence: 0.872759584285714

00:23:45.406 --> 00:23:46.897 breast cancer recur at any higher rate.

NOTE Confidence: 0.872759584285714

00:23:46.900 --> 00:23:48.764 We've looked at this over and over and

NOTE Confidence: 0.872759584285714

00:23:48.764 --> 00:23:50.496 over again and there's no heightened

NOTE Confidence: 0.872759584285714

00:23:50.496 --> 00:23:52.320 rates of recurrence in patients who've

NOTE Confidence: 0.872759584285714

00:23:52.375 --> 00:23:54.015 had reconstruction versus those that

NOTE Confidence: 0.872759584285714

00:23:54.015 --> 00:23:56.394 opted to not have reconstruction or were

NOTE Confidence: 0.872759584285714

00:23:56.394 --> 00:23:58.229 not healthy enough for reconstruction.

NOTE Confidence: 0.872759584285714

00:23:58.230 --> 00:24:00.030 Higher complication rates are noted

NOTE Confidence: 0.872759584285714

00:24:00.030 --> 00:24:01.773 in smokers, obesity and diabetics.

NOTE Confidence: 0.872759584285714

00:24:01.773 --> 00:24:03.478 Sometimes we can optimize patients

NOTE Confidence: 0.872759584285714

00:24:03.478 --> 00:24:04.630 prior to surgery,

NOTE Confidence: 0.872759584285714

00:24:04.630 --> 00:24:05.614 other times we cannot.

NOTE Confidence: 0.872759584285714

00:24:05.614 --> 00:24:07.754 We just have to let them know once

NOTE Confidence: 0.872759584285714

00:24:07.754 --> 00:24:09.578 again what the expectations are and

NOTE Confidence: 0.872759584285714

00:24:09.578 --> 00:24:11.495 it sometimes does limit the options

NOTE Confidence: 0.872759584285714

00:24:11.495 --> 00:24:13.065 we have for the reconstruction.

NOTE Confidence: 0.872759584285714

00:24:13.070 --> 00:24:14.906 Silicone implants have been proven to

NOTE Confidence: 0.872759584285714

00:24:14.906 --> 00:24:16.610 be safe and reconstruction patients,

NOTE Confidence: 0.872759584285714

00:24:16.610 --> 00:24:18.402 even if they rupture,

NOTE Confidence: 0.872759584285714

00:24:18.402 --> 00:24:20.642 they don't cause additional harm.

NOTE Confidence: 0.872759584285714

00:24:20.650 --> 00:24:22.170 So about six years ago,

NOTE Confidence: 0.872759584285714

00:24:22.170 --> 00:24:24.795 there was a lot of conversation about

NOTE Confidence: 0.872759584285714

00:24:24.795 --> 00:24:26.981 this association of anaplastic large

NOTE Confidence: 0.872759584285714

00:24:26.981 --> 00:24:29.635 cell lymphoma with textured implants.

NOTE Confidence: 0.872759584285714

00:24:29.635 --> 00:24:33.520 The FDA has identified a risk of

NOTE Confidence: 0.872759584285714

00:24:33.620 --> 00:24:36.342 about one in 30,000 women who had

NOTE Confidence: 0.872759584285714

00:24:36.342 --> 00:24:38.640 textured implants or risk of suffering

NOTE Confidence: 0.872759584285714

00:24:38.713 --> 00:24:40.729 anaplastic large cell lymphoma.

NOTE Confidence: 0.872759584285714

00:24:40.730 --> 00:24:43.842 The the rates when you look more broadly,

NOTE Confidence: 0.872759584285714

00:24:43.842 --> 00:24:46.278 it's like being less than being

NOTE Confidence: 0.872759584285714

00:24:46.278 --> 00:24:48.650 struck by struck by lightning.

NOTE Confidence: 0.872759584285714

00:24:48.650 --> 00:24:50.000 That being said,

NOTE Confidence: 0.872759584285714

00:24:50.000 --> 00:24:50.900 I do.

NOTE Confidence: 0.872759584285714

00:24:50.900 --> 00:24:53.035 Address this with my patients at time

NOTE Confidence: 0.872759584285714

00:24:53.035 --> 00:24:55.116 of consultation and we we actually now

NOTE Confidence: 0.872759584285714

00:24:55.116 --> 00:24:57.188 give them paperwork and have them sign

NOTE Confidence: 0.872759584285714

00:24:57.188 --> 00:24:58.923 an affidavit with an understanding

NOTE Confidence: 0.872759584285714

00:24:58.923 --> 00:25:01.306 that this association has been made.

NOTE Confidence: 0.872759584285714

00:25:01.306 --> 00:25:03.278 Most recently there's been

NOTE Confidence: 0.872759584285714

00:25:03.278 --> 00:25:05.250 conversation about an association

NOTE Confidence: 0.872759584285714

00:25:05.327 --> 00:25:07.892 with a rare type of of a skin cancer,

NOTE Confidence: 0.872759584285714

00:25:07.900 --> 00:25:09.640 squamous cell skin cancer associated

NOTE Confidence: 0.872759584285714

00:25:09.640 --> 00:25:11.821 with the capsule that can develop

NOTE Confidence: 0.872759584285714

00:25:11.821 --> 00:25:12.958 around the implant.

NOTE Confidence: 0.872759584285714

00:25:12.960 --> 00:25:16.138 There have been 15 reported cases worldwide.

NOTE Confidence: 0.872759584285714

00:25:16.140 --> 00:25:18.498 This has been in the news in the last

NOTE Confidence: 0.872759584285714

00:25:18.498 --> 00:25:20.870 four to six weeks and the FDA made it.

NOTE Confidence: 0.872759584285714

00:25:20.870 --> 00:25:21.500 A statement.

NOTE Confidence: 0.872759584285714

00:25:21.500 --> 00:25:23.705 This is a statement from Bonita Ashar,

NOTE Confidence: 0.872759584285714

00:25:23.710 --> 00:25:26.174 the director of the Office of Surgical

NOTE Confidence: 0.872759584285714

00:25:26.174 --> 00:25:27.949 Infection Control Devices for the FDA,

NOTE Confidence: 0.872759584285714

00:25:27.950 --> 00:25:29.602 that right now we do not have

NOTE Confidence: 0.872759584285714

00:25:29.602 --> 00:25:30.887 enough information to say whether

NOTE Confidence: 0.872759584285714

00:25:30.887 --> 00:25:32.207 breast implants cause these cancers

NOTE Confidence: 0.872759584285714

00:25:32.207 --> 00:25:34.158 or if any types of implants pose

NOTE Confidence: 0.872759584285714

00:25:34.158 --> 00:25:35.270 higher risks than others.

NOTE Confidence: 0.872759584285714

00:25:35.270 --> 00:25:37.160 So the reason for the louder part

NOTE Confidence: 0.872759584285714

00:25:37.160 --> 00:25:39.056 of that statement is because the

NOTE Confidence: 0.872759584285714

00:25:39.056 --> 00:25:40.432 anaplastic large cell lymphoma

NOTE Confidence: 0.872759584285714

00:25:40.432 --> 00:25:42.230 has been associated with textured

NOTE Confidence: 0.872759584285714

00:25:42.230 --> 00:25:44.005 implants and not smooth implants.

NOTE Confidence: 0.872759584285714

00:25:44.010 --> 00:25:44.362 Thankfully,

NOTE Confidence: 0.872759584285714

00:25:44.362 --> 00:25:46.826 I really did not put in many

NOTE Confidence: 0.872759584285714

00:25:46.826 --> 00:25:47.530 textured implants,

NOTE Confidence: 0.872759584285714

00:25:47.530 --> 00:25:49.270 have only put in smooth implants,

NOTE Confidence: 0.872759584285714

00:25:49.270 --> 00:25:51.550 but this this skin cancer.

NOTE Confidence: 0.872759584285714

00:25:51.550 --> 00:25:53.230 Association has been identified

NOTE Confidence: 0.872759584285714

00:25:53.230 --> 00:25:56.145 both in smooth implants as well as

NOTE Confidence: 0.872759584285714

00:25:56.145 --> 00:25:57.775 textured implants and once again

NOTE Confidence: 0.872759584285714

00:25:57.775 --> 00:26:00.409 we need to do additional studies

NOTE Confidence: 0.872759584285714

00:26:00.409 --> 00:26:02.290 and additional surveillance.

NOTE Confidence: 0.872759584285714

00:26:02.290 --> 00:26:04.124 So what are the methods of reconstruction?

NOTE Confidence: 0.872759584285714

00:26:04.130 --> 00:26:04.658 Once again,

NOTE Confidence: 0.872759584285714

00:26:04.658 --> 00:26:07.240 it would take 2 hours to go over our

NOTE Confidence: 0.872759584285714

00:26:07.240 --> 00:26:09.290 our methods of breast reconstruction,

NOTE Confidence: 0.872759584285714

00:26:09.290 --> 00:26:10.238 but I kind of separate them.

NOTE Confidence: 0.872759584285714

00:26:10.240 --> 00:26:12.232 And then three buckets.

NOTE Confidence: 0.872759584285714

00:26:12.232 --> 00:26:13.726 First and foremost,

NOTE Confidence: 0.872759584285714

00:26:13.730 --> 00:26:16.250 I'd like to consider what we do as,

NOTE Confidence: 0.729710134

00:26:16.250 --> 00:26:17.754 as breast reconstructive surgeons,

NOTE Confidence: 0.729710134

00:26:17.754 --> 00:26:20.160 as, as this continuum of care.

NOTE Confidence: 0.729710134

00:26:20.160 --> 00:26:23.086 So we offer aesthetic flat closures because

NOTE Confidence: 0.729710134

00:26:23.086 --> 00:26:25.889 not everyone wants breast reconstruction.

NOTE Confidence: 0.729710134

00:26:25.890 --> 00:26:27.375 Not everyone is healthy enough

NOTE Confidence: 0.729710134

00:26:27.375 --> 00:26:28.266 for breast reconstruction.

NOTE Confidence: 0.729710134

00:26:28.270 --> 00:26:30.867 So we offer these services to our

NOTE Confidence: 0.729710134

00:26:30.867 --> 00:26:31.980 surgical oncology colleagues.

NOTE Confidence: 0.729710134

00:26:31.980 --> 00:26:33.324 Breast oncology colleagues,

NOTE Confidence: 0.729710134

00:26:33.324 --> 00:26:36.012 as it pertains to mastectomy closures,

NOTE Confidence: 0.729710134

00:26:36.020 --> 00:26:38.085 then there's implant based reconstruction

NOTE Confidence: 0.729710134

00:26:38.085 --> 00:26:39.737 and then autologous reconstruction.

NOTE Confidence: 0.729710134

00:26:39.740 --> 00:26:41.408 So aesthetic cloud closures

NOTE Confidence: 0.729710134

00:26:41.408 --> 00:26:43.493 are also becoming more common.

NOTE Confidence: 0.729710134

00:26:43.500 --> 00:26:46.020 This is an article from the Annals

NOTE Confidence: 0.729710134

00:26:46.020 --> 00:26:47.958 of Surgical Oncology in 2020 which

NOTE Confidence: 0.729710134

00:26:47.958 --> 00:26:49.926 documented the fact that there was

NOTE Confidence: 0.729710134

00:26:49.926 --> 00:26:51.873 some women that were pretty upset

NOTE Confidence: 0.729710134

00:26:51.873 --> 00:26:54.575 with the fact that 22 / 22% of the

NOTE Confidence: 0.729710134

00:26:54.575 --> 00:26:56.450 women that were surveyed did not

NOTE Confidence: 0.729710134

00:26:56.450 --> 00:26:58.922 have this offer to them as an option.

NOTE Confidence: 0.729710134

00:26:58.930 --> 00:26:59.264 Additionally,

NOTE Confidence: 0.729710134

00:26:59.264 --> 00:27:01.936 they went on to identify the fact that

NOTE Confidence: 0.729710134

00:27:01.940 --> 00:27:03.578 74% of the women that did have a flag.

NOTE Confidence: 0.729710134

00:27:03.580 --> 00:27:03.905 Sure.

NOTE Confidence: 0.729710134

00:27:03.905 --> 00:27:05.855 We're very satisfied with their outcome.

NOTE Confidence: 0.729710134

00:27:05.860 --> 00:27:08.212 So this you know plastic surgeons we like

NOTE Confidence: 0.729710134

00:27:08.212 --> 00:27:10.745 show and tell this is a a patient that I.

NOTE Confidence: 0.729710134

00:27:10.750 --> 00:27:12.060 Rather recently operated on who

NOTE Confidence: 0.729710134

00:27:12.060 --> 00:27:13.816 decided that she did not want

NOTE Confidence: 0.729710134

00:27:13.816 --> 00:27:15.010 formal breast reconstruction,

NOTE Confidence: 0.729710134

00:27:15.010 --> 00:27:17.290 she wanted to be closed flat.

NOTE Confidence: 0.729710134

00:27:17.290 --> 00:27:19.090 Our our incision patterns are

NOTE Confidence: 0.729710134

00:27:19.090 --> 00:27:20.170 changed over time.

NOTE Confidence: 0.729710134

00:27:20.170 --> 00:27:22.192 There was more of a oblique

NOTE Confidence: 0.729710134

00:27:22.192 --> 00:27:24.166 incision initially and then we went

NOTE Confidence: 0.729710134

00:27:24.166 --> 00:27:25.566 to more of a horizontal.

NOTE Confidence: 0.729710134

00:27:25.570 --> 00:27:29.232 And now I kind of prefer this incision

NOTE Confidence: 0.729710134

00:27:29.232 --> 00:27:31.644 that's that mimics the inframammary fold

NOTE Confidence: 0.729710134

00:27:31.644 --> 00:27:34.187 and we've gotten good results with it.

NOTE Confidence: 0.729710134

00:27:34.190 --> 00:27:35.912 Women are able to be fitted with

NOTE Confidence: 0.729710134

00:27:35.912 --> 00:27:37.150 external prosthesis if they want.

NOTE Confidence: 0.729710134

00:27:37.150 --> 00:27:39.286 It also avoids any of the

NOTE Confidence: 0.729710134

00:27:39.286 --> 00:27:40.710 extra skin and intertrigo.

NOTE Confidence: 0.729710134

00:27:40.710 --> 00:27:42.520 That can happen after mastectomy,

NOTE Confidence: 0.729710134

00:27:42.520 --> 00:27:45.380 particularly in large breasted women.

NOTE Confidence: 0.729710134

00:27:45.380 --> 00:27:47.508 So when it comes to our methods of

48

NOTE Confidence: 0.729710134

00:27:47.508 --> 00:27:49.439 of formal breast reconstruction,

NOTE Confidence: 0.729710134

00:27:49.440 --> 00:27:52.260 reconstructing a breast mound 75%

NOTE Confidence: 0.729710134

00:27:52.260 --> 00:27:54.458 of the time in this country it's

NOTE Confidence: 0.729710134

00:27:54.458 --> 00:27:56.971 performed via the use of a of a of

NOTE Confidence: 0.729710134

00:27:56.971 --> 00:27:58.831 an implant typically in two stage

NOTE Confidence: 0.729710134

00:27:58.831 --> 00:28:01.201 fashion with a tissue expander placed

NOTE Confidence: 0.729710134

00:28:01.201 --> 00:28:03.348 slowly inflated over multiple weeks to

NOTE Confidence: 0.729710134

00:28:03.348 --> 00:28:05.840 months and then a permanent implant placed.

NOTE Confidence: 0.729710134

00:28:05.840 --> 00:28:08.682 And then 25% of the time we're

NOTE Confidence: 0.729710134

00:28:08.682 --> 00:28:10.800 using an autologous technique,

NOTE Confidence: 0.729710134

00:28:10.800 --> 00:28:11.915 so using tissue from another

NOTE Confidence: 0.729710134

00:28:11.915 --> 00:28:13.500 part of the body to recreate,

NOTE Confidence: 0.729710134

00:28:13.500 --> 00:28:15.126 reconstruct and recreated.

NOTE Confidence: 0.729710134

00:28:15.126 --> 00:28:16.210 West Mound,

NOTE Confidence: 0.729710134

00:28:16.210 --> 00:28:17.918 I would say at Yale this number

NOTE Confidence: 0.729710134

00:28:17.918 --> 00:28:20.079 is is not necessarily reflective.

NOTE Confidence: 0.729710134

00:28:20.080 --> 00:28:21.942 I would say that we do probably

NOTE Confidence: 0.729710134

00:28:21.942 --> 00:28:23.892 more 40 to 50% autologous and

NOTE Confidence: 0.729710134

00:28:23.892 --> 00:28:26.832 about 50 to 60% implant based.

NOTE Confidence: 0.729710134

00:28:26.832 --> 00:28:28.560 This is very,

NOTE Confidence: 0.729710134

00:28:28.560 --> 00:28:30.005 we're fortunate that the vast

NOTE Confidence: 0.729710134

00:28:30.005 --> 00:28:32.252 majority of us here have a background

NOTE Confidence: 0.729710134

00:28:32.252 --> 00:28:33.362 in microsurgical reconstruction

NOTE Confidence: 0.729710134

00:28:33.362 --> 00:28:36.000 which allows us to carry out this

NOTE Confidence: 0.729710134

00:28:36.000 --> 00:28:37.825 additional technique and provide this

NOTE Confidence: 0.729710134

00:28:37.825 --> 00:28:40.910 additional option for these patients.

NOTE Confidence: 0.729710134

00:28:40.910 --> 00:28:42.998 So the realities of implant based

NOTE Confidence: 0.729710134

00:28:42.998 --> 00:28:45.347 reconstruction for the most part it's for

NOTE Confidence: 0.729710134

00:28:45.347 --> 00:28:47.830 small to moderate breast sizes kind of aided,

NOTE Confidence: 0.729710134

00:28:47.830 --> 00:28:50.644 we're limited in the size of implants.

NOTE Confidence: 0.729710134

00:28:50.650 --> 00:28:52.835 There is a large implant

NOTE Confidence: 0.729710134

00:28:52.835 --> 00:28:54.583 trial that is ongoing.

NOTE Confidence: 0.729710134

00:28:54.590 --> 00:28:56.634 So we may have some additional options

NOTE Confidence: 0.729710134

00:28:56.634 --> 00:28:58.649 for our larger breasted women or women

NOTE Confidence: 0.729710134

00:28:58.649 --> 00:29:00.990 that desire to to reach a larger size.

NOTE Confidence: 0.729710134

00:29:00.990 --> 00:29:02.290 It's a shorter operative

NOTE Confidence: 0.729710134

00:29:02.290 --> 00:29:03.590 procedure about 2 hours,

NOTE Confidence: 0.729710134

00:29:03.590 --> 00:29:05.786 shorter hospitalization one to two days

NOTE Confidence: 0.729710134

00:29:05.786 --> 00:29:08.528 and once again as I said typically

NOTE Confidence: 0.729710134

00:29:08.528 --> 00:29:10.720 requires 2 procedures that expand or.

NOTE Confidence: 0.729710134

00:29:10.720 --> 00:29:12.670 Followed by a permanent implant.

NOTE Confidence: 0.729710134

00:29:12.670 --> 00:29:13.870 Implant replacement is recommended

NOTE Confidence: 0.729710134

00:29:13.870 --> 00:29:15.670 by all three of the big

NOTE Confidence: 0.859250781428571

00:29:15.731 --> 00:29:16.807 implant manufacturers to happen

NOTE Confidence: 0.859250781428571

00:29:16.807 --> 00:29:18.740 at the 10 to 15 year Mark.

NOTE Confidence: 0.859250781428571

00:29:18.740 --> 00:29:20.780 And then it's not ideal for

NOTE Confidence: 0.859250781428571

00:29:20.780 --> 00:29:22.555 patients that need radiation therapy

NOTE Confidence: 0.859250781428571

00:29:22.555 --> 00:29:24.631 which which once again could be

NOTE Confidence: 0.859250781428571

00:29:24.631 --> 00:29:26.530 another hour long conversation.

NOTE Confidence: 0.859250781428571

00:29:26.530 --> 00:29:28.912 And then for the most part

NOTE Confidence: 0.859250781428571

00:29:28.912 --> 00:29:30.103 for unilateral operation,

NOTE Confidence: 0.859250781428571

00:29:30.110 --> 00:29:32.810 the patient must have an understanding

NOTE Confidence: 0.859250781428571

00:29:32.810 --> 00:29:35.489 that they should consider a balancing

NOTE Confidence: 0.859250781428571

00:29:35.489 --> 00:29:37.499 procedure on the other side.

NOTE Confidence: 0.859250781428571

00:29:37.500 --> 00:29:40.570 Realities of flat based reconstruction.

NOTE Confidence: 0.859250781428571

00:29:40.570 --> 00:29:42.474 Once again we love, show and tell.

NOTE Confidence: 0.859250781428571

00:29:42.480 --> 00:29:43.698 This is the woman that I did,

NOTE Confidence: 0.859250781428571

00:29:43.700 --> 00:29:45.800 as in a delayed fashion,

NOTE Confidence: 0.859250781428571

00:29:45.800 --> 00:29:48.530 we usually kind of steer women in

NOTE Confidence: 0.859250781428571

00:29:48.530 --> 00:29:51.382 this direction if they are are have a

NOTE Confidence: 0.859250781428571

00:29:51.382 --> 00:29:54.060 larger BMI or a larger body habitus.

NOTE Confidence: 0.859250781428571

00:29:54.060 --> 00:29:55.620 The operative procedure is longer,

NOTE Confidence: 0.859250781428571

00:29:55.620 --> 00:29:57.118 it's longer and it's more difficult on

NOTE Confidence: 0.859250781428571

00:29:57.118 --> 00:29:59.528 the on the patient, at least up front.

NOTE Confidence: 0.859250781428571

00:29:59.528 --> 00:30:01.580 It also requires a longer hospitalization,

NOTE Confidence: 0.859250781428571

00:30:01.580 --> 00:30:03.320 usually three to four days.

NOTE Confidence: 0.859250781428571

00:30:03.320 --> 00:30:05.416 There is a risk of hernia or bulge.

NOTE Confidence: 0.859250781428571

00:30:05.420 --> 00:30:06.652 I don't oversell this,

NOTE Confidence: 0.859250781428571

00:30:06.652 --> 00:30:07.576 I inform patient.

NOTE Confidence: 0.859250781428571

00:30:07.580 --> 00:30:09.317 It's about the five to 10% risk

NOTE Confidence: 0.859250781428571

00:30:09.317 --> 00:30:12.306 of a hernia and then flat death

NOTE Confidence: 0.859250781428571

00:30:12.306 --> 00:30:14.958 is about 2% where that and at

NOTE Confidence: 0.859250781428571

00:30:14.958 --> 00:30:16.089 microsurgical anastomosis doesn't

NOTE Confidence: 0.859250781428571

00:30:16.089 --> 00:30:17.826 work that's about 2% nationwide.

NOTE Confidence: 0.859250781428571

00:30:17.826 --> 00:30:19.570 It's not for smokers,

NOTE Confidence: 0.859250781428571

00:30:19.570 --> 00:30:20.690 not for super obese,

NOTE Confidence: 0.859250781428571

00:30:20.690 --> 00:30:22.370 not for those that have severe

NOTE Confidence: 0.859250781428571

53

00:30:22.428 --> 00:30:24.240 comorbidities and then they also must

NOTE Confidence: 0.859250781428571

00:30:24.240 --> 00:30:26.627 know that this is typically not just a

NOTE Confidence: 0.859250781428571

00:30:26.627 --> 00:30:28.878 one and done either more times than option.

NOTE Confidence: 0.859250781428571

00:30:28.878 --> 00:30:31.150 If you look at the at the literature

NOTE Confidence: 0.859250781428571

00:30:31.150 --> 00:30:33.310 I touch up operation either one

NOTE Confidence: 0.859250781428571

00:30:33.310 --> 00:30:35.424 or two maybe sometimes three is

NOTE Confidence: 0.859250781428571

00:30:35.424 --> 00:30:37.824 required in order to get them to to.

NOTE Confidence: 0.859250781428571

00:30:37.830 --> 00:30:39.923 Do a result that they're pleased with

NOTE Confidence: 0.859250781428571

00:30:39.923 --> 00:30:42.380 and and we are also satisfied with.

NOTE Confidence: 0.859250781428571

00:30:42.380 --> 00:30:44.140 So what about lumpectomy patients,

NOTE Confidence: 0.859250781428571

00:30:44.140 --> 00:30:45.440 I've been really pushing and

NOTE Confidence: 0.859250781428571

00:30:45.440 --> 00:30:47.020 doctor Greeno can attest to this.

NOTE Confidence: 0.859250781428571

00:30:47.020 --> 00:30:48.994 I think there's an operation out

NOTE Confidence: 0.859250781428571

00:30:48.994 --> 00:30:50.678 there called Uncle Plastic breast

NOTE Confidence: 0.859250781428571

00:30:50.678 --> 00:30:52.238 reduction surgery where a patient

NOTE Confidence: 0.859250781428571

00:30:52.238 --> 00:30:54.724 who has a small cancer and a larger

NOTE Confidence: 0.859250781428571

00:30:54.724 --> 00:30:56.494 breast that are very toxic breast

NOTE Confidence: 0.859250781428571

00:30:56.500 --> 00:30:58.082 and get the benefits of a breast

NOTE Confidence: 0.859250781428571

00:30:58.082 --> 00:30:59.880 reduction or a breast lift at the

NOTE Confidence: 0.859250781428571

00:30:59.880 --> 00:31:01.215 time of their cancer resection.

NOTE Confidence: 0.859250781428571

00:31:01.220 --> 00:31:02.672 This is the silver lining for

NOTE Confidence: 0.859250781428571

00:31:02.672 --> 00:31:03.640 many of our ladies.

NOTE Confidence: 0.859250781428571

00:31:03.640 --> 00:31:06.454 I do a lot of breast reduction

NOTE Confidence: 0.859250781428571

00:31:06.454 --> 00:31:09.444 surgery and being able to.

NOTE Confidence: 0.859250781428571

00:31:09.444 --> 00:31:12.011 To combine oncologic reconstructive

NOTE Confidence: 0.859250781428571

00:31:12.011 --> 00:31:13.535 principles along with breast

NOTE Confidence: 0.859250781428571

00:31:13.535 --> 00:31:15.440 reduction principles has caused this

NOTE Confidence: 0.859250781428571

00:31:15.493 --> 00:31:17.208 operation to be one of my favorites.

NOTE Confidence: 0.859250781428571

00:31:17.210 --> 00:31:18.674 I really think it's the both

NOTE Confidence: 0.859250781428571

00:31:18.674 --> 00:31:20.090 the best of both worlds.

NOTE Confidence: 0.859250781428571

00:31:20.090 --> 00:31:22.610 Patients obviously will still necessitate

NOTE Confidence: 0.859250781428571

00:31:22.610 --> 00:31:24.235 radiation therapy more times than

NOTE Confidence: 0.859250781428571

00:31:24.235 --> 00:31:26.853 not because this is a component of

NOTE Confidence: 0.859250781428571

00:31:26.853 --> 00:31:28.705 their breast conservation therapy.

NOTE Confidence: 0.859250781428571

00:31:28.710 --> 00:31:30.960 So this is a patient who had large breast,

NOTE Confidence: 0.859250781428571

00:31:30.960 --> 00:31:32.304 she had always wanted a breast reduction.

NOTE Confidence: 0.859250781428571

00:31:32.310 --> 00:31:34.407 She had a small cancer on the right side.

NOTE Confidence: 0.859250781428571

00:31:34.410 --> 00:31:36.727 We were able to do an uncle

NOTE Confidence: 0.859250781428571

00:31:36.727 --> 00:31:37.389 plastic reconstruction.

NOTE Confidence: 0.859250781428571

00:31:37.390 --> 00:31:38.570 This is actually after her.

NOTE Confidence: 0.859250781428571

00:31:38.570 --> 00:31:39.898 Radiation as well and

NOTE Confidence: 0.859250781428571

00:31:39.898 --> 00:31:40.894 she's healed beautifully.

NOTE Confidence: 0.859250781428571

00:31:40.900 --> 00:31:42.426 She's got just a still a little

NOTE Confidence: 0.859250781428571

00:31:42.426 --> 00:31:44.071 bit of skin darkening but was

NOTE Confidence: 0.859250781428571

00:31:44.071 --> 00:31:45.319 ecstatic with her result.

NOTE Confidence: 0.859250781428571

00:31:45.320 --> 00:31:46.196 Here's another young lady.

NOTE Confidence: 0.859250781428571

00:31:46.196 --> 00:31:47.999 She had a cancer on the left side.

NOTE Confidence: 0.859250781428571

00:31:48.000 --> 00:31:48.789 Lots of tosis.

NOTE Confidence: 0.859250781428571

00:31:48.789 --> 00:31:50.367 Had always wanted a breast lift,

NOTE Confidence: 0.859250781428571

00:31:50.370 --> 00:31:52.474 thought she would be vain by setting it,

NOTE Confidence: 0.859250781428571

00:31:52.480 --> 00:31:54.580 setting herself for a breast lift.

NOTE Confidence: 0.859250781428571

00:31:54.580 --> 00:31:57.230 So we did a breast lift and and lumpectomy at

NOTE Confidence: 0.819561746153846

00:31:57.294 --> 00:31:58.119 the same time.

NOTE Confidence: 0.819561746153846

00:31:58.120 --> 00:32:00.640 And she was also quite pleased.

NOTE Confidence: 0.819561746153846

00:32:00.640 --> 00:32:02.020 The breasts just keep getting larger.

NOTE Confidence: 0.819561746153846

00:32:02.020 --> 00:32:04.540 And my slideshow here's a woman who

NOTE Confidence: 0.819561746153846

00:32:04.540 --> 00:32:07.256 was actually turned down for breast

NOTE Confidence: 0.819561746153846

00:32:07.256 --> 00:32:08.825 reductions previously developed.

NOTE Confidence: 0.819561746153846

00:32:08.830 --> 00:32:10.510 Cancer and we were able

NOTE Confidence: 0.819561746153846

00:32:10.510 --> 00:32:12.190 to give her this result.

NOTE Confidence: 0.819561746153846

00:32:12.190 --> 00:32:14.990 And then finally a much more seasoned lady,

NOTE Confidence: 0.819561746153846

00:32:14.990 --> 00:32:18.302 I had a breast surgeon that that sent

NOTE Confidence: 0.819561746153846

00:32:18.302 --> 00:32:19.950 this patient to me said I don't think

NOTE Confidence: 0.819561746153846

00:32:19.997 --> 00:32:21.485 there's anything we really can do.

NOTE Confidence: 0.819561746153846

00:32:21.490 --> 00:32:23.258 And the radiation oncologist,

NOTE Confidence: 0.819561746153846

00:32:23.258 --> 00:32:25.026 we're concerned about radiating

NOTE Confidence: 0.819561746153846

00:32:25.026 --> 00:32:27.633 such a large entatic breast causing

NOTE Confidence: 0.819561746153846

00:32:27.633 --> 00:32:30.720 lymphedema in the breast and we were

NOTE Confidence: 0.819561746153846

00:32:30.797 --> 00:32:33.184 able to to give her this result.

NOTE Confidence: 0.819561746153846

00:32:33.190 --> 00:32:35.698 So in short and in summary,

NOTE Confidence: 0.819561746153846

00:32:35.700 --> 00:32:37.149 there are many options and I believe

NOTE Confidence: 0.819561746153846

00:32:37.149 --> 00:32:38.763 that all patients should be offered a

NOTE Confidence: 0.819561746153846

00:32:38.763 --> 00:32:39.953 consultation with a plastic surgeon.

NOTE Confidence: 0.819561746153846

00:32:39.960 --> 00:32:43.026 To just discuss those reconstructive options,

NOTE Confidence: 0.819561746153846

00:32:43.030 --> 00:32:45.142 I'm a big proponent of shared

NOTE Confidence: 0.819561746153846

00:32:45.142 --> 00:32:45.846 decision making.

NOTE Confidence: 0.819561746153846

00:32:45.850 --> 00:32:48.524 I don't push patients in any direction.

NOTE Confidence: 0.819561746153846

00:32:48.530 --> 00:32:50.042 I kind of provide them the menu and

NOTE Confidence: 0.819561746153846

00:32:50.042 --> 00:32:51.659 then we have a good conversation about

NOTE Confidence: 0.819561746153846

00:32:51.659 --> 00:32:53.289 what's going to be best for them.

NOTE Confidence: 0.819561746153846

00:32:53.290 --> 00:32:55.126 And then as I mentioned before,

NOTE Confidence: 0.819561746153846

00:32:55.130 --> 00:32:56.936 the method and timing of the

NOTE Confidence: 0.819561746153846

00:32:56.936 --> 00:32:59.024 procedure is one that should fulfill

NOTE Confidence: 0.819561746153846

00:32:59.024 --> 00:33:01.084 the patients needs and lifestyle.

NOTE Confidence: 0.819561746153846

00:33:01.090 --> 00:33:03.505 So with that I will stop sharing.

NOTE Confidence: 0.819561746153846

00:33:03.510 --> 00:33:04.750 Thank you all very much.

NOTE Confidence: 0.942527464

00:33:05.550 --> 00:33:07.692 Yeah. Thank you so much, Doctor Butler,

NOTE Confidence: 0.942527464

00:33:07.692 --> 00:33:10.390 and we're so lucky to have you at Yale.

NOTE Confidence: 0.942527464

00:33:10.390 --> 00:33:14.320 Paris has a national reputation in

NOTE Confidence: 0.942527464

00:33:14.320 --> 00:33:16.816 oncoplastic reconstruction and many of

NOTE Confidence: 0.942527464

00:33:16.816 --> 00:33:18.394 our patients have thought about breast

NOTE Confidence: 0.942527464

00:33:18.394 --> 00:33:20.290 reduction or lift their whole life.

NOTE Confidence: 0.942527464

00:33:20.290 --> 00:33:24.170 And the ability to have it covered by

NOTE Confidence: 0.942527464

00:33:24.170 --> 00:33:27.577 insurance or the inability to pay cash

NOTE Confidence: 0.942527464

00:33:27.577 --> 00:33:30.410 has prohibited them from moving forward.

NOTE Confidence: 0.942527464

00:33:30.410 --> 00:33:32.462 So when they come to us with a cancer,

NOTE Confidence: 0.942527464

00:33:32.470 --> 00:33:35.536 it's an opportunity to both improve.

NOTE Confidence: 0.942527464

00:33:35.540 --> 00:33:38.258 Eristics and also make it easier

NOTE Confidence: 0.942527464

00:33:38.258 --> 00:33:40.070 for their downstream treatment

NOTE Confidence: 0.942527464

00:33:40.149 --> 00:33:42.309 with lower risk of lymphedema.

NOTE Confidence: 0.942527464

00:33:42.310 --> 00:33:43.210 As you mentioned,

NOTE Confidence: 0.942527464

00:33:43.210 --> 00:33:45.830 we're going to ship back to Doctor Zaneski.

NOTE Confidence: 0.942527464

00:33:45.830 --> 00:33:48.238 I think we've resolved our technical issues.

NOTE Confidence: 0.942527464

00:33:48.240 --> 00:33:50.512 So Eliza is going to load up his

NOTE Confidence: 0.942527464

00:33:50.512 --> 00:33:52.772 slides and we look forward to

NOTE Confidence: 0.942527464

00:33:52.772 --> 00:33:54.792 hearing about breast cancer surgery.

NOTE Confidence: 0.5556801

00:34:02.560 --> 00:34:06.450 OK. Alright, great. Thank you.

NOTE Confidence: 0.67799021

00:34:07.570 --> 00:34:09.370 Yes. And you'll be advancing them.

NOTE Confidence: 0.67799021

00:34:09.370 --> 00:34:11.126 Uh, thank you so much.

NOTE Confidence: 0.67799021

00:34:11.126 --> 00:34:12.750 You have advanced to the next slide.

NOTE Confidence: 0.746751922

00:34:14.990 --> 00:34:17.250 Great. And again, one more.

NOTE Confidence: 0.805293687777778

00:34:19.680 --> 00:34:20.200 Perfect. Yeah.

NOTE Confidence: 0.805293687777778

00:34:20.200 --> 00:34:22.020 We got stuff at the surgical clinic.

NOTE Confidence: 0.805293687777778

00:34:22.020 --> 00:34:25.860 Yep. Next slide. Yeah.

NOTE Confidence: 0.805293687777778

00:34:25.860 --> 00:34:27.336 So, so this is, you know,

NOTE Confidence: 0.805293687777778

00:34:27.340 --> 00:34:30.820 an operating room here at Shoreline.

NOTE Confidence: 0.805293687777778

00:34:30.820 --> 00:34:31.490 Detailed view,

NOTE Confidence: 0.805293687777778

00:34:31.490 --> 00:34:34.170 you can see the operating room table and

NOTE Confidence: 0.805293687777778

00:34:34.233 --> 00:34:36.669 anesthesia station in the very far back.

NOTE Confidence: 0.805293687777778

00:34:36.670 --> 00:34:38.973 In the back right is our intraoperative

NOTE Confidence: 0.805293687777778

00:34:38.973 --> 00:34:40.998 facts atron where we take specimen

NOTE Confidence: 0.805293687777778

00:34:40.998 --> 00:34:42.618 radiographs and of course of

NOTE Confidence: 0.805293687777778

00:34:42.618 --> 00:34:44.750 course the instrument table and

NOTE Confidence: 0.805293687777778

00:34:44.750 --> 00:34:48.053 the operations that we do here you

NOTE Confidence: 0.805293687777778

00:34:48.053 --> 00:34:49.628 know surgical excision, biopsy,

NOTE Confidence: 0.805293687777778

00:34:49.628 --> 00:34:52.048 you know things like atypia,

NOTE Confidence: 0.805293687777778

00:34:52.050 --> 00:34:53.850 some women choose to have

NOTE Confidence: 0.805293687777778

00:34:53.850 --> 00:34:54.570 fibroadenomas removed.

NOTE Confidence: 0.805293687777778

00:34:54.570 --> 00:34:56.600 These are benign tumors and so all

NOTE Confidence: 0.805293687777778

00:34:56.600 --> 00:34:59.186 can be done here with with the

NOTE Confidence: 0.805293687777778

00:34:59.186 --> 00:35:00.830 localization as doctor Philpotts.

NOTE Confidence: 0.805293687777778

00:35:00.830 --> 00:35:02.759 Mentioned or without.

NOTE Confidence: 0.805293687777778

00:35:02.759 --> 00:35:05.974 Breast conservation to classical lumpectomy,

NOTE Confidence: 0.805293687777778

00:35:05.980 --> 00:35:08.215 the big departure from radical

NOTE Confidence: 0.805293687777778

00:35:08.215 --> 00:35:10.450 mastectomy decades ago that we're

NOTE Confidence: 0.805293687777778

00:35:10.521 --> 00:35:13.460 performing hopefully over 70% of the

NOTE Confidence: 0.805293687777778

00:35:13.460 --> 00:35:16.100 time for early stage breast cancer.

NOTE Confidence: 0.805293687777778

00:35:16.100 --> 00:35:17.094 Radiological localization,

NOTE Confidence: 0.805293687777778

00:35:17.094 --> 00:35:20.573 Doctor Phil Potsin over that with wire

NOTE Confidence: 0.805293687777778

00:35:20.573 --> 00:35:22.478 localization and tag localization.

NOTE Confidence: 0.805293687777778

00:35:22.480 --> 00:35:24.916 I'll show some images as well.

NOTE Confidence: 0.805293687777778

00:35:24.920 --> 00:35:27.520 Localization can be same day,

NOTE Confidence: 0.805293687777778

00:35:27.520 --> 00:35:29.592 you know bundled with you want Academy

NOTE Confidence: 0.805293687777778

00:35:29.592 --> 00:35:31.992 or we have the option to localize

NOTE Confidence: 0.805293687777778

00:35:31.992 --> 00:35:33.802 the small tumors and radiology.

NOTE Confidence: 0.805293687777778

00:35:33.810 --> 00:35:35.987 Sleep on a separate day and then

NOTE Confidence: 0.805293687777778

00:35:35.987 --> 00:35:38.603 do the going back to me as a first

NOTE Confidence: 0.805293687777778

00:35:38.603 --> 00:35:40.788 case early in the in the morning.

NOTE Confidence: 0.805293687777778

00:35:40.790 --> 00:35:41.896 Axillary surgery,

NOTE Confidence: 0.805293687777778

00:35:41.896 --> 00:35:44.661 things like Sentinel lymph node

NOTE Confidence: 0.805293687777778

00:35:44.661 --> 00:35:46.837 biopsy routinely performed here

NOTE Confidence: 0.805293687777778

00:35:46.837 --> 00:35:48.585 actually lymph node dissection

NOTE Confidence: 0.805293687777778

00:35:48.585 --> 00:35:51.368 or a lymph node excision biopsy

NOTE Confidence: 0.805293687777778

00:35:51.368 --> 00:35:53.988 to help our hematologists and

NOTE Confidence: 0.805293687777778

00:35:53.988 --> 00:35:56.084 oncologists with lymphoma diagnosis

NOTE Confidence: 0.805293687777778

00:35:56.090 --> 00:35:58.580 were often involved in that.

NOTE Confidence: 0.805293687777778

00:35:58.580 --> 00:36:00.850 And as we go forward,

NOTE Confidence: 0.805293687777778

00:36:00.850 --> 00:36:03.478 we'll be introducing mastectomy.

NOTE Confidence: 0.805293687777778

00:36:03.478 --> 00:36:06.106 Under the directorship of

NOTE Confidence: 0.805293687777778

00:36:06.106 --> 00:36:08.689 Doctor Greenup at Shoreline,

NOTE Confidence: 0.805293687777778

00:36:08.690 --> 00:36:10.580 Same Day mastectomies,

NOTE Confidence: 0.805293687777778

00:36:10.580 --> 00:36:13.730 possibly in the near future,

NOTE Confidence: 0.805293687777778

00:36:13.730 --> 00:36:16.034 mastectomies with immediate breast

NOTE Confidence: 0.805293687777778

00:36:16.034 --> 00:36:17.950 reconstruction, implant based,

NOTE Confidence: 0.805293687777778

00:36:17.950 --> 00:36:20.630 possibly same day discharge.

NOTE Confidence: 0.805293687777778

00:36:20.630 --> 00:36:22.614 It was working on that in New Haven.

NOTE Confidence: 0.805293687777778

00:36:22.620 --> 00:36:25.020 That's a new addition to

NOTE Confidence: 0.805293687777778

00:36:25.020 --> 00:36:26.940 the Department of Surgery.

NOTE Confidence: 0.805293687777778

00:36:26.940 --> 00:36:28.880 And maybe even overnight stay

NOTE Confidence: 0.805293687777778

00:36:28.880 --> 00:36:30.432 at Shoreline one day.

NOTE Confidence: 0.805293687777778

00:36:30.440 --> 00:36:32.757 So all these things are are being

NOTE Confidence: 0.805293687777778

00:36:32.757 --> 00:36:34.742 thought about and discussed to

NOTE Confidence: 0.805293687777778

00:36:34.742 --> 00:36:37.508 again bring more complex breast and

NOTE Confidence: 0.805293687777778

00:36:37.508 --> 00:36:39.424 reconstruction surgery out to the

NOTE Confidence: 0.805293687777778

00:36:39.424 --> 00:36:41.277 community and closer to the patient's

NOTE Confidence: 0.805293687777778

00:36:41.277 --> 00:36:43.119 home that the next slide please.

NOTE Confidence: 0.8039096125

00:36:47.560 --> 00:36:49.920 Yeah. This is again some of the localization.

NOTE Confidence: 0.8039096125

00:36:49.920 --> 00:36:51.957 I can see the two wires there.

NOTE Confidence: 0.8039096125

00:36:51.960 --> 00:36:53.644 That's a bracketed lumpectomy.

NOTE Confidence: 0.8039096125

00:36:53.644 --> 00:36:57.071 And then the other image is what we

NOTE Confidence: 0.8039096125

00:36:57.071 --> 00:36:59.448 call our tag localization, which can

NOTE Confidence: 0.8039096125

00:36:59.448 --> 00:37:02.360 be placed prior to the day of surgery.

NOTE Confidence: 0.8039096125

00:37:02.360 --> 00:37:04.940 And again, these are utilized to

NOTE Confidence: 0.8039096125

00:37:04.940 --> 00:37:07.575 find small tumors within the breast

NOTE Confidence: 0.8039096125

00:37:07.575 --> 00:37:09.780 that are not palpable. Next slide.

NOTE Confidence: 0.812327905555556

00:37:11.900 --> 00:37:13.600 There's a picture of a

NOTE Confidence: 0.812327905555556

00:37:13.600 --> 00:37:14.960 Sentinel lymph node biopsy.

NOTE Confidence: 0.812327905555556

00:37:14.960 --> 00:37:17.767 I can see the tiny blue dye.

NOTE Confidence: 0.812327905555556

00:37:17.770 --> 00:37:20.600 We can do intraoperative injection

NOTE Confidence: 0.812327905555556

00:37:20.600 --> 00:37:24.359 of the radioisotope or the blue dye.

NOTE Confidence: 0.812327905555556

00:37:24.360 --> 00:37:26.929 These are two markers that are injected

NOTE Confidence: 0.812327905555556

00:37:26.929 --> 00:37:29.305 into the breast to help identify

NOTE Confidence: 0.812327905555556

00:37:29.305 --> 00:37:31.310 the Sentinel lymph node biopsy.

NOTE Confidence: 0.812327905555556

00:37:31.310 --> 00:37:35.478 And that's part of a routine staging process.

NOTE Confidence: 0.812327905555556

00:37:35.480 --> 00:37:37.538 And as we are moving forward,

NOTE Confidence: 0.812327905555556

00:37:37.540 --> 00:37:39.565 there's a new initiative called

NOTE Confidence: 0.812327905555556

00:37:39.565 --> 00:37:41.185 the Choosing wisely initiative.

NOTE Confidence: 0.812327905555556

00:37:41.190 --> 00:37:43.428 Businesses from the Society of Surgical

NOTE Confidence: 0.812327905555556

00:37:43.428 --> 00:37:45.671 Oncology and the American Board of

NOTE Confidence: 0.812327905555556

00:37:45.671 --> 00:37:47.391 Internal Medicine where maybe we

NOTE Confidence: 0.812327905555556

00:37:47.391 --> 00:37:49.839 can deescalate and not have to do or

NOTE Confidence: 0.812327905555556

00:37:49.839 --> 00:37:51.579 routinely do a Sentinel lymph node

NOTE Confidence: 0.812327905555556

00:37:51.579 --> 00:37:55.080 biopsy for our women who are 70 and above.

NOTE Confidence: 0.812327905555556

00:37:55.080 --> 00:37:57.740 Early stage breast cancer with

NOTE Confidence: 0.812327905555556

00:37:57.740 --> 00:37:59.336 favorable biologic markers,

NOTE Confidence: 0.812327905555556

00:37:59.340 --> 00:38:01.312 meaning estrogen receptor positive,

NOTE Confidence: 0.812327905555556

00:38:01.312 --> 00:38:03.777 her two negative patients are

NOTE Confidence: 0.812327905555556

00:38:03.777 --> 00:38:06.607 taking to this very strongly when we

NOTE Confidence: 0.812327905555556

00:38:06.607 --> 00:38:08.786 discuss this because what it's able

NOTE Confidence: 0.812327905555556

00:38:08.786 --> 00:38:11.194 to do is reduce the amount of side

NOTE Confidence: 0.812327905555556

00:38:11.200 --> 00:38:13.384 effects when the even though it's

NOTE Confidence: 0.812327905555556

00:38:13.384 --> 00:38:15.619 low risk with Sentinel and biopsy,

NOTE Confidence: 0.812327905555556

00:38:15.620 --> 00:38:17.396 we're able to lower that even

NOTE Confidence: 0.812327905555556

00:38:17.396 --> 00:38:19.209 further by not removing lymph nodes

NOTE Confidence: 0.812327905555556

00:38:19.209 --> 00:38:21.204 and also a range of motion issues.

NOTE Confidence: 0.812327905555556

00:38:21.210 --> 00:38:23.500 So that's been a new,

NOTE Confidence: 0.812327905555556

00:38:23.500 --> 00:38:25.320 a new approach in surgical.

NOTE Confidence: 0.812327905555556

00:38:25.320 --> 00:38:27.784 College over the last four to five years.

NOTE Confidence: 0.838398844

00:38:28.610 --> 00:38:29.620 And the next slide please.

NOTE Confidence: 0.9011805

00:38:31.650 --> 00:38:33.666 And the specimen radiograph again, you know,

NOTE Confidence: 0.830154918

00:38:33.670 --> 00:38:35.230 focusing on the instrument.

NOTE Confidence: 0.830154918

00:38:35.230 --> 00:38:36.790 Uh, the machine in the back,

NOTE Confidence: 0.830154918

00:38:36.790 --> 00:38:39.088 right when we do the lower

NOTE Confidence: 0.830154918

00:38:39.088 --> 00:38:41.230 back we were able to do.

NOTE Confidence: 0.830154918

00:38:41.230 --> 00:38:42.586 Immediate specimen radiograph,

NOTE Confidence: 0.830154918

00:38:42.586 --> 00:38:45.750 this is very good for confirming your

NOTE Confidence: 0.830154918

00:38:45.819 --> 00:38:48.475 removal of the tumor of the biopsy clip,

NOTE Confidence: 0.830154918

00:38:48.480 --> 00:38:50.076 but it also helps with with

NOTE Confidence: 0.830154918

00:38:50.076 --> 00:38:51.590 helps us with margin status.

NOTE Confidence: 0.830154918

00:38:51.590 --> 00:38:54.606 You know one of the big things with

NOTE Confidence: 0.830154918

00:38:54.606 --> 00:38:56.811 successful oncologic surgery is negative

NOTE Confidence: 0.830154918

00:38:56.811 --> 00:38:59.440 margins for invasive cancers 2 Senate,

NOTE Confidence: 0.830154918

00:38:59.440 --> 00:39:01.780 2 millimeters or greater for ductal

NOTE Confidence: 0.830154918

00:39:01.780 --> 00:39:03.659 carcinoma in situ only lobectomies

NOTE Confidence: 0.830154918

00:39:03.659 --> 00:39:07.072 and we're able to gain more a lot of

NOTE Confidence: 0.830154918

00:39:07.072 --> 00:39:08.956 information with the intraoperative

NOTE Confidence: 0.830154918

00:39:08.956 --> 00:39:11.701 specimen radiograph to look at the margins.

NOTE Confidence: 0.830154918

00:39:11.701 --> 00:39:13.136 To see as a surgeon,

NOTE Confidence: 0.830154918

00:39:13.140 --> 00:39:15.254 you know are things looking very good

NOTE Confidence: 0.830154918

00:39:15.254 --> 00:39:17.802 on that on that radio graph and to

NOTE Confidence: 0.830154918

00:39:17.802 --> 00:39:20.107 take shave margins at that time of

NOTE Confidence: 0.830154918

00:39:20.107 --> 00:39:22.438 surgery and thereby reduce the risk of

NOTE Confidence: 0.830154918

00:39:22.438 --> 00:39:24.408 second operations for margin resection.

NOTE Confidence: 0.830154918

00:39:24.408 --> 00:39:27.618 You know our goal is to keep that

NOTE Confidence: 0.830154918

00:39:27.618 --> 00:39:30.047 and never we can never achieve 0,

NOTE Confidence: 0.830154918

00:39:30.050 --> 00:39:31.986 but we want to find a very nice

NOTE Confidence: 0.830154918

00:39:31.986 --> 00:39:33.539 range where it's not too high,

NOTE Confidence: 0.830154918

00:39:33.540 --> 00:39:34.221 not too well,

NOTE Confidence: 0.830154918

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00:39:34.221 --> 00:39:35.810 so we can have good cosmetic outcome,

NOTE Confidence: 0.830154918

00:39:35.810 --> 00:39:38.235 good oncologic outcomes and that

NOTE Confidence: 0.830154918

00:39:38.235 --> 00:39:40.175 machine is very important.

NOTE Confidence: 0.830154918

00:39:40.180 --> 00:39:40.948 Next slide please.

NOTE Confidence: 0.861903025

00:39:46.230 --> 00:39:47.558 Go back one here,

NOTE Confidence: 0.771462525

00:39:47.990 --> 00:39:51.868 yeah, back one more. There we are. Yeah.

NOTE Confidence: 0.837919542857143

00:39:51.880 --> 00:39:54.456 So again, this is a special radiograph.

NOTE Confidence: 0.837919542857143

00:39:54.460 --> 00:39:56.620 The larger one is A tag,

NOTE Confidence: 0.837919542857143

00:39:56.620 --> 00:39:58.936 a lumpectomy and to the the

NOTE Confidence: 0.837919542857143

00:39:58.936 --> 00:40:01.520 middle slide is a lymph node.

NOTE Confidence: 0.837919542857143

00:40:01.520 --> 00:40:04.328 You know the tiny lymph node with the

NOTE Confidence: 0.837919542857143

00:40:04.328 --> 00:40:07.120 biopsy clip in it here at at Yale over

NOTE Confidence: 0.837919542857143

00:40:07.120 --> 00:40:10.255 2 routinely put a biopsy clip after a

NOTE Confidence: 0.837919542857143

00:40:10.255 --> 00:40:13.057 lymph node has been radiologically biopsied.

NOTE Confidence: 0.837919542857143

00:40:13.060 --> 00:40:15.112 And we can confirm retrieval of

NOTE Confidence: 0.837919542857143

00:40:15.112 --> 00:40:17.263 that in the operating room to

NOTE Confidence: 0.837919542857143

00:40:17.263 --> 00:40:19.393 help with our accuracy and false

NOTE Confidence: 0.837919542857143

00:40:19.393 --> 00:40:21.079 negative rates with Sentinel.

NOTE Confidence: 0.837919542857143

00:40:21.080 --> 00:40:22.388 You know biopsy.

NOTE Confidence: 0.837919542857143

00:40:22.388 --> 00:40:23.696 Next slide please.

NOTE Confidence: 0.815230736923077

00:40:25.910 --> 00:40:28.352 And with regard to clinical trials

NOTE Confidence: 0.815230736923077

00:40:28.352 --> 00:40:31.169 at the shoreline and in our clinics,

NOTE Confidence: 0.815230736923077

00:40:31.170 --> 00:40:33.528 we're able to offer you know,

NOTE Confidence: 0.815230736923077

00:40:33.530 --> 00:40:35.790 two trials, surgical trials.

NOTE Confidence: 0.815230736923077

00:40:35.790 --> 00:40:39.494 This the alliance A 011202 was open here

NOTE Confidence: 0.815230736923077

00:40:39.494 --> 00:40:42.912 and is now reached the coral and we'll be

NOTE Confidence: 0.815230736923077

00:40:42.912 --> 00:40:45.649 awaiting those results in about 5 years.

NOTE Confidence: 0.815230736923077

00:40:45.650 --> 00:40:47.684 And we've had patients who've enrolled

NOTE Confidence: 0.815230736923077

00:40:47.684 --> 00:40:50.301 and able to do their files with

NOTE Confidence: 0.815230736923077

00:40:50.301 --> 00:40:52.683 us at Shoreline and we're actively

NOTE Confidence: 0.815230736923077

00:40:52.683 --> 00:40:54.618 recruiting within the comet trial.

NOTE Confidence: 0.815230736923077

00:40:54.620 --> 00:40:56.690 You know, we're asking ourselves.

NOTE Confidence: 0.815230736923077

00:40:56.690 --> 00:40:59.636 Finally, believe it or not is

NOTE Confidence: 0.815230736923077

00:40:59.636 --> 00:41:02.120 aggressive treatment as you know,

NOTE Confidence: 0.815230736923077

00:41:02.120 --> 00:41:04.775 are invasive cancer type treatments

NOTE Confidence: 0.815230736923077

00:41:04.775 --> 00:41:06.899 necessary for precancerous disease,

NOTE Confidence: 0.815230736923077

00:41:06.900 --> 00:41:09.096 ductal carcinoma inside you and this

NOTE Confidence: 0.815230736923077

00:41:09.096 --> 00:41:11.575 is a randomized trial looking at,

NOTE Confidence: 0.815230736923077

00:41:11.575 --> 00:41:13.523 believe it or not,

NOTE Confidence: 0.815230736923077

00:41:13.523 --> 00:41:14.936 possibly omitting surgery,

NOTE Confidence: 0.815230736923077

00:41:14.940 --> 00:41:18.820 randomizing women with favorable DCIS,

NOTE Confidence: 0.815230736923077

00:41:18.820 --> 00:41:21.900 meaning a low risk to surgery or no

NOTE Confidence: 0.815230736923077

00:41:21.900 --> 00:41:24.615 surgery with the options of some

NOTE Confidence: 0.815230736923077

00:41:24.615 --> 00:41:26.935 of the other adjuvant therapies.

NOTE Confidence: 0.815230736923077

00:41:26.940 --> 00:41:29.316 Um, so we've recruited patients at

NOTE Confidence: 0.815230736923077

00:41:29.316 --> 00:41:31.440 Shoreline already in our actively

NOTE Confidence: 0.815230736923077

00:41:31.440 --> 00:41:32.850 recruiting in this,

NOTE Confidence: 0.815230736923077

00:41:32.850 --> 00:41:35.251 this trial to answer some of these

NOTE Confidence: 0.815230736923077

00:41:35.251 --> 00:41:37.445 pending questions of how aggressively do

NOTE Confidence: 0.815230736923077

00:41:37.445 --> 00:41:41.450 we need to treat ductal carcinoma in situ.

NOTE Confidence: 0.815230736923077

00:41:41.450 --> 00:41:42.248 Next slide please.

NOTE Confidence: 0.803585498

00:41:44.620 --> 00:41:46.800 And comprehensive care, you know,

NOTE Confidence: 0.803585498

00:41:46.800 --> 00:41:49.134 a lot of our discussions when

NOTE Confidence: 0.803585498

00:41:49.134 --> 00:41:51.669 patients come in with newly diagnosed

NOTE Confidence: 0.803585498

00:41:51.669 --> 00:41:54.369 breast cancer or even high risk

NOTE Confidence: 0.803585498

00:41:54.369 --> 00:41:56.800 things like genetic counseling,

NOTE Confidence: 0.803585498

00:41:56.800 --> 00:42:00.314 risk stratifying by the various risk models,

NOTE Confidence: 0.803585498

00:42:00.320 --> 00:42:02.546 the Gale model, the Tyra Cusick model,

NOTE Confidence: 0.803585498

00:42:02.550 --> 00:42:04.734 we routinely do that in our

NOTE Confidence: 0.803585498

00:42:04.734 --> 00:42:06.190 clinics with appropriate referrals

NOTE Confidence: 0.803585498

00:42:06.249 --> 00:42:08.009 due to our genetic counselors.

NOTE Confidence: 0.803585498

00:42:08.010 --> 00:42:10.038 They're not on site at Shoreline,

NOTE Confidence: 0.803585498

00:42:10.040 --> 00:42:13.295 but certainly by zoom can do referrals.

NOTE Confidence: 0.803585498

00:42:13.300 --> 00:42:16.220 Uh, social work we have on site social

NOTE Confidence: 0.803585498

00:42:16.220 --> 00:42:18.966 workers who help us uh routinely and

NOTE Confidence: 0.803585498

00:42:18.966 --> 00:42:22.274 we're very grateful to their help our

NOTE Confidence: 0.803585498

00:42:22.274 --> 00:42:24.858 outpatient oncology rehabilitation services,

NOTE Confidence: 0.803585498

00:42:24.860 --> 00:42:26.220 OK, not on site,

NOTE Confidence: 0.803585498

00:42:26.220 --> 00:42:28.738 but again a quick phone call to

NOTE Confidence: 0.803585498

00:42:28.738 --> 00:42:31.138 the director Scott Kaposa who is

NOTE Confidence: 0.803585498

00:42:31.138 --> 00:42:33.826 always willing to see our patients

NOTE Confidence: 0.803585498

00:42:33.826 --> 00:42:36.166 promptly and streamline them for

NOTE Confidence: 0.803585498

00:42:36.166 --> 00:42:38.283 various post surgical issues or

NOTE Confidence: 0.803585498

00:42:38.283 --> 00:42:40.238 even non post surgical issues,

NOTE Confidence: 0.803585498

00:42:40.240 --> 00:42:42.394 things like lymphedema.

NOTE Confidence: 0.803585498

00:42:42.394 --> 00:42:44.905 Um or postmastectomy, pain,

NOTE Confidence: 0.803585498

00:42:44.905 --> 00:42:46.680 all of those different things.

NOTE Confidence: 0.803585498

00:42:46.680 --> 00:42:48.234 Uh, nutrition consultation,

NOTE Confidence: 0.803585498

00:42:48.234 --> 00:42:50.824 again um within the system,

NOTE Confidence: 0.803585498

00:42:50.830 --> 00:42:53.385 we're able to access that at Smilo

NOTE Confidence: 0.803585498

00:42:53.385 --> 00:42:56.030 as well as smoking cessation.

NOTE Confidence: 0.803585498

00:42:56.030 --> 00:42:58.190 Patients have been very receptive

NOTE Confidence: 0.803585498

00:42:58.190 --> 00:43:00.350 to these consultations and part

NOTE Confidence: 0.803585498

00:43:00.421 --> 00:43:02.546 of our comprehensive care model.

NOTE Confidence: 0.803585498

00:43:02.550 --> 00:43:03.330 Next slide please.

NOTE Confidence: 0.6733104828

00:43:06.570 --> 00:43:09.070 That concludes my my discussion.

NOTE Confidence: 0.6733104828

00:43:09.070 --> 00:43:11.569 Like to thank everybody for their time.

NOTE Confidence: 0.6733104828

00:43:11.570 --> 00:43:13.460 The Breast Center number is

NOTE Confidence: 0.6733104828

00:43:13.460 --> 00:43:15.350 there and there's my e-mail.

NOTE Confidence: 0.6733104828

00:43:15.350 --> 00:43:17.900 You know, certainly I encourage anybody

NOTE Confidence: 0.6733104828

00:43:17.900 --> 00:43:20.470 to e-mail me directly and certainly

NOTE Confidence: 0.6733104828

00:43:20.470 --> 00:43:22.852 will provide my cell phone number

NOTE Confidence: 0.6733104828

00:43:22.852 --> 00:43:25.532 because a lot of the most difficult

NOTE Confidence: 0.6733104828

00:43:25.532 --> 00:43:27.622 discussions I think in the primary

NOTE Confidence: 0.6733104828

00:43:27.622 --> 00:43:30.070 care may very well be what do you do

NOTE Confidence: 0.6733104828

00:43:30.132 --> 00:43:32.418 with some of the radiologic findings?

NOTE Confidence: 0.6733104828

00:43:32.420 --> 00:43:34.285 We're happy to help integrate

NOTE Confidence: 0.6733104828

00:43:34.285 --> 00:43:35.404 and answer those.

NOTE Confidence: 0.6733104828

00:43:35.410 --> 00:43:38.259 Those questions, uh what types of follow-up

NOTE Confidence: 0.6733104828

00:43:38.259 --> 00:43:40.139 screening strategies for high risk.

NOTE Confidence: 0.6733104828

00:43:40.140 --> 00:43:42.460 Um, you know all of those different things.

NOTE Confidence: 0.6733104828

00:43:42.460 --> 00:43:45.610 So always happy to help problem solve

NOTE Confidence: 0.6733104828

00:43:45.610 --> 00:43:47.886 and would really encourage anyone

NOTE Confidence: 0.6733104828

00:43:47.886 --> 00:43:50.664 to primary care OBGYN setting to

NOTE Confidence: 0.6733104828

00:43:50.664 --> 00:43:52.858 certainly send an e-mail how can

NOTE Confidence: 0.6733104828

00:43:52.858 --> 00:43:55.461 we help you remember sure surgery

NOTE Confidence: 0.6733104828

00:43:55.461 --> 00:43:58.296 at shoreline for breast cancer,

NOTE Confidence: 0.6733104828

00:43:58.300 --> 00:44:01.280 you know from Yale started in 2020 that

NOTE Confidence: 0.6733104828

00:44:01.280 --> 00:44:03.680 was our first breast surgery there.

NOTE Confidence: 0.6733104828

00:44:03.680 --> 00:44:05.712 Breast conservation so alive.

NOTE Confidence: 0.6733104828

00:44:05.712 --> 00:44:07.744 Of changing quickly um.

NOTE Confidence: 0.6733104828

00:44:07.750 --> 00:44:09.577 And we would like to certainly get

NOTE Confidence: 0.6733104828

00:44:09.577 --> 00:44:11.803 your feedback on how we can help you

NOTE Confidence: 0.6733104828

00:44:11.803 --> 00:44:13.650 navigate your patients view benign disease,

NOTE Confidence: 0.6733104828

00:44:13.650 --> 00:44:16.320 high risk as well as malignancy.

NOTE Confidence: 0.6733104828

00:44:16.320 --> 00:44:19.104 And there's a a shout out to Doctor

NOTE Confidence: 0.6733104828

00:44:19.104 --> 00:44:21.130 Horowitz who started the clinic

NOTE Confidence: 0.6733104828

00:44:21.130 --> 00:44:23.510 here several years ago with Doctor

NOTE Confidence: 0.6733104828

00:44:23.510 --> 00:44:26.023 Kiley and it's a torture carrying

NOTE Confidence: 0.6733104828

00:44:26.023 --> 00:44:28.418 and we've since her retirement

NOTE Confidence: 0.6733104828

00:44:28.418 --> 00:44:31.354 we've added breast surgery and even

NOTE Confidence: 0.6733104828

00:44:31.354 --> 00:44:33.242 expanding to reconstruction under

NOTE Confidence: 0.6733104828

00:44:33.242 --> 00:44:35.505 the directorship of of Doctor.

NOTE Confidence: 0.6733104828

00:44:35.505 --> 00:44:36.255 Or Salvador.

NOTE Confidence: 0.6733104828

00:44:36.255 --> 00:44:37.380 Great things there.

NOTE Confidence: 0.6733104828

00:44:37.380 --> 00:44:38.529 And that's Elizabeth,

NOTE Confidence: 0.6733104828

00:44:38.529 --> 00:44:40.380 our nurse practitioner, uh Renee,

NOTE Confidence: 0.6733104828

00:44:40.380 --> 00:44:42.584 one of our assistants, and Sherry,

NOTE Confidence: 0.6733104828

00:44:42.584 --> 00:44:45.398 one of our our nurses and coordinators.

NOTE Confidence: 0.6733104828

00:44:45.400 --> 00:44:45.667 Again,

NOTE Confidence: 0.6733104828

00:44:45.667 --> 00:44:47.536 feel free to always send an e-mail

NOTE Confidence: 0.6733104828

00:44:47.536 --> 00:44:49.066 and happy to help in any way

NOTE Confidence: 0.9562783175

00:44:49.080 --> 00:44:50.268 we can. Thank you.

NOTE Confidence: 0.95518799

00:44:51.410 --> 00:44:52.840 Thank you so much, Greg.

NOTE Confidence: 0.95518799

00:44:52.840 --> 00:44:55.500 And I think the community had big

NOTE Confidence: 0.95518799

00:44:55.500 --> 00:44:58.452 concerns that we would not be able to

NOTE Confidence: 0.95518799

00:44:58.452 --> 00:45:00.974 fill doctor Horowitz's tremendous role in

NOTE Confidence: 0.95518799

00:45:00.974 --> 00:45:03.710 caring for our breast cancer patients.

NOTE Confidence: 0.95518799

00:45:03.710 --> 00:45:05.036 Those are big shoes to fill,

NOTE Confidence: 0.95518799

00:45:05.040 --> 00:45:06.664 but we're doing our best to keep up.

NOTE Confidence: 0.95518799

00:45:06.670 --> 00:45:09.743 So we all prioritize access and a

NOTE Confidence: 0.95518799

00:45:09.743 --> 00:45:12.061 high quality patient centered care

NOTE Confidence: 0.95518799

00:45:12.061 --> 00:45:14.803 and we're here to help anytime.

NOTE Confidence: 0.95518799

00:45:14.810 --> 00:45:17.400 So I'm going to turn it over to Doctor Zahir.

NOTE Confidence: 0.90889765

00:45:22.260 --> 00:45:24.570 It's a pleasure to introduce the

NOTE Confidence: 0.90889765

00:45:24.570 --> 00:45:27.820 next speaker known her for some time.

NOTE Confidence: 0.90889765

00:45:27.820 --> 00:45:30.020 Sarah Sarah Mcgillion is an

NOTE Confidence: 0.90889765

00:45:30.020 --> 00:45:31.780 associate professor of medicine,

NOTE Confidence: 0.90889765

00:45:31.780 --> 00:45:34.606 medical Oncology and chief chief ambulatory

NOTE Confidence: 0.90889765

00:45:34.606 --> 00:45:37.180 officer for Smilow Cancer Hospital.

NOTE Confidence: 0.90889765

00:45:37.180 --> 00:45:39.142 She cares for patients with breast

NOTE Confidence: 0.90889765

00:45:39.142 --> 00:45:41.611 cancer in New Haven and more recently we

NOTE Confidence: 0.90889765

00:45:41.611 --> 00:45:44.040 are so happy to have her in Guilford.

NOTE Confidence: 0.90889765

00:45:44.040 --> 00:45:46.315 She's also involved in education of students,

NOTE Confidence: 0.90889765

00:45:46.320 --> 00:45:48.160 residents and fellows here

NOTE Confidence: 0.90889765

00:45:48.160 --> 00:45:50.460 at Yale outside the clinic.

NOTE Confidence: 0.90889765

00:45:50.460 --> 00:45:53.000 She's involved with cancer outcomes,

NOTE Confidence: 0.90889765

00:45:53.000 --> 00:45:55.910 public policy and effective veness research,

NOTE Confidence: 0.90889765

00:45:55.910 --> 00:45:57.675 which is called Copper Center

NOTE Confidence: 0.90889765

00:45:57.675 --> 00:45:59.087 at Yale Cancer Center,

NOTE Confidence: 0.90889765

00:45:59.090 --> 00:46:01.195 with a specific interest in

NOTE Confidence: 0.90889765

00:46:01.195 --> 00:46:03.300 chemotherapy regimens used in the

NOTE Confidence: 0.90889765

00:46:03.378 --> 00:46:05.490 treatment of breast cancer and how

NOTE Confidence: 0.90889765

00:46:05.490 --> 00:46:08.219 they are used in clinical practice.

NOTE Confidence: 0.90889765

00:46:08.220 --> 00:46:09.069 So welcome, Sarah.

NOTE Confidence: 0.90889765

00:46:09.069 --> 00:46:10.767 Thank you for joining us today.

NOTE Confidence: 0.69482982625

00:46:11.080 --> 00:46:12.110 Thanks, waji.

NOTE Confidence: 0.69482982625

00:46:12.110 --> 00:46:15.200 So welcome everybody like Doctor Butler.

NOTE Confidence: 0.69482982625

00:46:15.200 --> 00:46:18.060 I think that this is clearly a topic

NOTE Confidence: 0.69482982625

00:46:18.060 --> 00:46:21.140 that fits very nicely into 10 minutes.

NOTE Confidence: 0.69482982625

00:46:21.140 --> 00:46:22.916 Describe my job in 10 minutes,

00:46:22.920 --> 00:46:25.236 no problem. As what you said,

00:46:25.240 --> 00:46:27.935 I do see patients at the Guildford

00:46:27.935 --> 00:46:29.699 location one day a week.

00:46:29.700 --> 00:46:31.680 I'm also in New Haven one day a week.

00:46:31.680 --> 00:46:33.168 But what we're really what what

00:46:33.168 --> 00:46:34.932 I really want to get across is

00:46:34.932 --> 00:46:36.598 anything we can do in New Haven,

00:46:36.600 --> 00:46:38.490 we can also do in Guildford and.

00:46:38.490 --> 00:46:41.028 I I love working in Guildford.

00:46:41.030 --> 00:46:43.890 I love the parking situation.

00:46:43.890 --> 00:46:46.428 Air rights is my worst nightmare.

00:46:46.430 --> 00:46:49.960 But I love the the group that we have out

00:46:50.047 --> 00:46:53.743 here and I love my colleagues in Guildford.

00:46:53.750 --> 00:46:55.676 So with the few small exceptions

00:46:55.676 --> 00:46:57.827 of a couple of clinical trials

00:46:57.827 --> 00:47:00.203 that really have very high level

NOTE Confidence: 0.69482982625

00:47:00.203 --> 00:47:02.510 needs and and rapid turnaround,

NOTE Confidence: 0.69482982625

00:47:02.510 --> 00:47:04.841 we can do just about anything in

NOTE Confidence: 0.69482982625

00:47:04.841 --> 00:47:07.250 Guildford that we can do in New Haven.

NOTE Confidence: 0.69482982625

00:47:07.250 --> 00:47:09.560 What I really want to get across.

NOTE Confidence: 0.69482982625

00:47:09.560 --> 00:47:11.555 If you have a patient who's been

NOTE Confidence: 0.69482982625

00:47:11.555 --> 00:47:12.840 diagnosed with breast cancer,

NOTE Confidence: 0.69482982625

00:47:12.840 --> 00:47:15.680 she's in for, she's in for a ride,

NOTE Confidence: 0.69482982625

00:47:15.680 --> 00:47:16.740 most could be he,

NOTE Confidence: 0.69482982625

00:47:16.740 --> 00:47:18.860 but she is also in for a ride.

NOTE Confidence: 0.69482982625

00:47:18.860 --> 00:47:20.358 So if a patient has breast cancer,

NOTE Confidence: 0.69482982625

00:47:20.360 --> 00:47:21.800 there's a multidisciplinary team

NOTE Confidence: 0.69482982625

00:47:21.800 --> 00:47:23.600 consisting of a medical oncologist,

NOTE Confidence: 0.69482982625

00:47:23.600 --> 00:47:25.355 a radiation oncologist,

NOTE Confidence: 0.69482982625

00:47:25.355 --> 00:47:28.634 a surgeon and those three different

NOTE Confidence: 0.69482982625

00:47:28.634 --> 00:47:30.502 disciplines work closely with

NOTE Confidence: 0.69482982625

00:47:30.502 --> 00:47:32.879 our diagnostic imagers as doctor

NOTE Confidence: 0.69482982625

00:47:32.879 --> 00:47:35.084 Philpotts has described to get

NOTE Confidence: 0.69482982625

00:47:35.084 --> 00:47:37.440 appropriate imaging right off the bat.

NOTE Confidence: 0.69482982625

00:47:37.440 --> 00:47:40.236 We also have social work, physical therapy.

NOTE Confidence: 0.69482982625

00:47:40.236 --> 00:47:41.592 Nutrition, genetics,

NOTE Confidence: 0.69482982625

00:47:41.592 --> 00:47:44.304 fertility and reproductive endocrinology,

NOTE Confidence: 0.69482982625

00:47:44.310 --> 00:47:46.634 all prior to the patient who might

NOTE Confidence: 0.69482982625

00:47:46.634 --> 00:47:48.777 then have to undergo chemotherapy

NOTE Confidence: 0.69482982625

00:47:48.777 --> 00:47:50.388 prior to surgery.

NOTE Confidence: 0.69482982625

00:47:50.390 --> 00:47:53.470 Each of those little dots is a treatment.

NOTE Confidence: 0.69482982625

00:47:53.470 --> 00:47:55.689 Then the patient might have surgery with

NOTE Confidence: 0.69482982625

00:47:55.689 --> 00:47:57.705 a breast surgeon and a reconstructive

NOTE Confidence: 0.69482982625

00:47:57.705 --> 00:47:59.709 surgeon as as doctor Zaneski and

NOTE Confidence: 0.69482982625

00:47:59.709 --> 00:48:01.328 Doctor Butler have described.

NOTE Confidence: 0.69482982625

00:48:01.330 --> 00:48:03.448 They might continue on getting more

NOTE Confidence: 0.69482982625

00:48:03.448 --> 00:48:05.695 chemotherapy or more anti cancer therapy

NOTE Confidence: 0.69482982625

00:48:05.695 --> 00:48:07.635 prior to then getting radiation,

NOTE Confidence: 0.69482982625

00:48:07.640 --> 00:48:10.727 which could be up to 30 or even more.

NOTE Confidence: 0.69482982625

00:48:10.730 --> 00:48:13.070 Treatments, all of that.

NOTE Confidence: 0.69482982625

00:48:13.070 --> 00:48:14.240 With nutrition,

NOTE Confidence: 0.69482982625

00:48:14.240 --> 00:48:17.600 physical therapy all along the

NOTE Confidence: 0.69482982625

00:48:17.600 --> 00:48:19.640 way and then once the definitive

NOTE Confidence: 0.69482982625

00:48:19.640 --> 00:48:20.780 treatment is finished,

NOTE Confidence: 0.69482982625

00:48:20.780 --> 00:48:22.632 there's continued follow-up visits,

NOTE Confidence: 0.69482982625

00:48:22.632 --> 00:48:24.456 mammograms, bone density studies,

NOTE Confidence: 0.69482982625

00:48:24.460 --> 00:48:24.834 infusions,

NOTE Confidence: 0.69482982625

00:48:24.834 --> 00:48:28.200 physical therapy and the list goes on and on.

NOTE Confidence: 0.69482982625

00:48:28.200 --> 00:48:30.034 So this is not one stop shopping,

NOTE Confidence: 0.69482982625

00:48:30.040 --> 00:48:32.578 this really requires a closely knit

NOTE Confidence: 0.69482982625

00:48:32.578 --> 00:48:35.510 group of of clinicians who are working

NOTE Confidence: 0.69482982625

00:48:35.510 --> 00:48:38.219 together to to provide the best care.

00:48:38.220 --> 00:48:41.293 So just a little bit more about

00:48:41.293 --> 00:48:43.540 multidisciplinary care in the actual.

00:48:43.540 --> 00:48:46.370 Treatment of breast cancer itself.

00:48:46.370 --> 00:48:47.948 The goal of breast surgery is

00:48:47.948 --> 00:48:49.430 to remove the known cancer,

00:48:49.430 --> 00:48:50.516 obtain negative margins,

00:48:50.516 --> 00:48:51.964 evaluate the lymph nodes,

00:48:51.970 --> 00:48:53.910 removed the involved lymph nodes.

00:48:53.910 --> 00:48:55.880 Surgery alone can be curative

00:48:55.880 --> 00:48:57.850 radiation on top of that,

00:48:57.850 --> 00:48:59.740 and I don't want to steal

00:48:59.740 --> 00:49:00.685 Doctor Higgins's Thunder.

00:49:00.690 --> 00:49:01.146 However,

00:49:01.146 --> 00:49:02.970 the goal of radiation,

00:49:02.970 --> 00:49:04.266 as I like to describe it in clinic,

00:49:04.270 --> 00:49:06.270 is to mop up any microscopic disease in

NOTE Confidence: 0.69482982625

00:49:06.270 --> 00:49:08.270 the breast and the regional lymph nodes,

NOTE Confidence: 0.69482982625

00:49:08.270 --> 00:49:09.835 and this is generally administered

NOTE Confidence: 0.69482982625

00:49:09.835 --> 00:49:11.780 after lumpectomy and can be recommended

NOTE Confidence: 0.69482982625

00:49:11.780 --> 00:49:13.730 even after a mastectomy and this.

NOTE Confidence: 0.69482982625

00:49:13.730 --> 00:49:15.760 The goal of radiation is to reduce local

NOTE Confidence: 0.873352915

00:49:15.760 --> 00:49:19.168 recurrence. So then you might say,

NOTE Confidence: 0.873352915

00:49:19.170 --> 00:49:20.205 well surgery, radiation,

NOTE Confidence: 0.873352915

00:49:20.205 --> 00:49:21.585 breast is all clean.

NOTE Confidence: 0.873352915

00:49:21.590 --> 00:49:23.326 Why do you need a medical oncologist?

NOTE Confidence: 0.873352915

00:49:23.330 --> 00:49:26.130 Well, we have a different goal

NOTE Confidence: 0.873352915

00:49:26.130 --> 00:49:27.960 in medical oncology and our goal

NOTE Confidence: 0.873352915

00:49:27.960 --> 00:49:30.713 is to mop up the microscopically

NOTE Confidence: 0.873352915

00:49:30.713 --> 00:49:32.909 undetectable disease systemically.

NOTE Confidence: 0.873352915

00:49:32.910 --> 00:49:34.870 And our goal is to reduce the risk

NOTE Confidence: 0.873352915

00:49:34.870 --> 00:49:36.389 of distant recurrence to reduce

NOTE Confidence: 0.873352915

00:49:36.389 --> 00:49:38.321 the the likelihood that a patient

NOTE Confidence: 0.873352915

00:49:38.321 --> 00:49:40.228 dies of metastatic breast cancer.

NOTE Confidence: 0.4904061

00:49:42.330 --> 00:49:45.730 Umm. Nope. I'm going to do

NOTE Confidence: 0.4904061

00:49:45.730 --> 00:49:46.830 a little more animation.

NOTE Confidence: 0.4904061

00:49:46.830 --> 00:49:49.785 This is what happens when you oops,

NOTE Confidence: 0.4904061

00:49:49.785 --> 00:49:52.970 when you copy forward animated things.

NOTE Confidence: 0.4904061

00:49:52.970 --> 00:49:54.650 So how do we decide who

NOTE Confidence: 0.4904061

00:49:54.650 --> 00:49:55.770 gets what medical treatment?

NOTE Confidence: 0.4904061

00:49:55.770 --> 00:49:58.110 It's a really complicated story.

NOTE Confidence: 0.4904061

00:49:58.110 --> 00:50:00.265 It takes into account patient

NOTE Confidence: 0.4904061

00:50:00.265 --> 00:50:01.472 characteristics, their age,

NOTE Confidence: 0.4904061

00:50:01.472 --> 00:50:02.630 their medical comorbidities,

NOTE Confidence: 0.4904061

00:50:02.630 --> 00:50:04.214 their own personal preferences.

NOTE Confidence: 0.4904061

00:50:04.214 --> 00:50:06.590 It takes into account tumor stage,

NOTE Confidence: 0.4904061

00:50:06.590 --> 00:50:08.306 which is tumor size, nodal status,

NOTE Confidence: 0.4904061

00:50:08.310 --> 00:50:10.578 and the presence or absence of metastatic

NOTE Confidence: 0.4904061

00:50:10.578 --> 00:50:12.446 disease and tumor characteristics such

NOTE Confidence: 0.4904061

00:50:12.446 --> 00:50:14.432 as grade hormone, receptor status.

NOTE Confidence: 0.4904061

00:50:14.432 --> 00:50:15.530 Her two status.

NOTE Confidence: 0.4904061

00:50:15.530 --> 00:50:17.090 And I know that these may

NOTE Confidence: 0.4904061

00:50:17.090 --> 00:50:18.130 not be quite familiar.

NOTE Confidence: 0.4904061

00:50:18.130 --> 00:50:18.480 Concepts,

NOTE Confidence: 0.4904061

00:50:18.480 --> 00:50:21.280 but they the goal of this slide is

NOTE Confidence: 0.4904061

00:50:21.280 --> 00:50:23.940 to just demonstrate that it's not

NOTE Confidence: 0.4904061

00:50:23.940 --> 00:50:26.568 one-size-fits-all for all patients.

NOTE Confidence: 0.4904061

00:50:26.570 --> 00:50:28.628 And based on that combination we

NOTE Confidence: 0.4904061

00:50:28.628 --> 00:50:30.570 then choose a systemic therapy.

NOTE Confidence: 0.4904061

00:50:30.570 --> 00:50:32.600 I want to review really quickly staging

NOTE Confidence: 0.4904061

00:50:32.600 --> 00:50:34.463 you know it's it's funny everybody

NOTE Confidence: 0.4904061

00:50:34.463 --> 00:50:36.335 comes into clinic and they that

NOTE Confidence: 0.4904061

00:50:36.335 --> 00:50:38.287 this is their number one question,

NOTE Confidence: 0.4904061

00:50:38.290 --> 00:50:40.170 what's my stage because apparently

NOTE Confidence: 0.4904061

00:50:40.170 --> 00:50:42.050 that's the most common question

NOTE Confidence: 0.4904061

00:50:42.110 --> 00:50:44.162 that they are asked upon revealing

NOTE Confidence: 0.4904061

00:50:44.162 --> 00:50:45.924 a breast cancer diagnosis stage

NOTE Confidence: 0.4904061

00:50:45.924 --> 00:50:48.288 is more than just the tumor,

NOTE Confidence: 0.4904061

00:50:48.290 --> 00:50:50.678 the nodal status and the presence

NOTE Confidence: 0.4904061

00:50:50.678 --> 00:50:52.270 or absence of metastases.

NOTE Confidence: 0.4904061

00:50:52.270 --> 00:50:54.286 More recently we started in

NOTE Confidence: 0.4904061

00:50:54.286 --> 00:50:56.526 incorporating some of these other.

NOTE Confidence: 0.4904061

00:50:56.530 --> 00:50:58.903 Features of of a breast cancer such

NOTE Confidence: 0.4904061

00:50:58.903 --> 00:51:01.159 as the grade, the estrogen receptor,

NOTE Confidence: 0.4904061

00:51:01.159 --> 00:51:03.637 the progesterone receptor and her two

NOTE Confidence: 0.4904061

00:51:03.637 --> 00:51:06.277 to come up with a more prognostic

NOTE Confidence: 0.4904061

00:51:06.277 --> 00:51:08.771 stage that's really more aligned with

NOTE Confidence: 0.4904061

00:51:08.771 --> 00:51:10.735 the patient's overall prognosis.

NOTE Confidence: 0.4904061

00:51:10.740 --> 00:51:11.844 So you might say, OK,

NOTE Confidence: 0.4904061

00:51:11.844 --> 00:51:13.140 well what does all that mean?

NOTE Confidence: 0.4904061

00:51:13.140 --> 00:51:15.086 Well grade is a measure of how

NOTE Confidence: 0.4904061

00:51:15.086 --> 00:51:16.349 aggressive the cancer appears

NOTE Confidence: 0.4904061

00:51:16.349 --> 00:51:18.219 under the microscope as described

NOTE Confidence: 0.4904061

00:51:18.219 --> 00:51:19.715 by our pathology colleagues.

NOTE Confidence: 0.4904061

00:51:19.720 --> 00:51:21.274 And in general, the higher the grade,

NOTE Confidence: 0.4904061

00:51:21.280 --> 00:51:23.116 the more aggressive the cancer and

NOTE Confidence: 0.4904061

00:51:23.116 --> 00:51:25.281 the more aggressive we have to be

NOTE Confidence: 0.4904061

00:51:25.281 --> 00:51:26.756 to prevent a systemic recurrence.

NOTE Confidence: 0.4904061

00:51:26.760 --> 00:51:29.042 Then we get on to the estrogen

NOTE Confidence: 0.4904061

00:51:29.042 --> 00:51:30.020 and progesterone receptors.

NOTE Confidence: 0.4904061

00:51:30.020 --> 00:51:32.636 These are nuclear based hormone receptors.

NOTE Confidence: 0.4904061

00:51:32.640 --> 00:51:34.684 They and the kind of quick and

NOTE Confidence: 0.4904061

00:51:34.684 --> 00:51:36.825 dirty way of thinking about these

NOTE Confidence: 0.4904061

00:51:36.825 --> 00:51:39.380 is if the cancer expressed expresses

NOTE Confidence: 0.4904061

00:51:39.380 --> 00:51:41.620 estrogen or progesterone receptors,

NOTE Confidence: 0.4904061

00:51:41.620 --> 00:51:44.784 it's fueled by hormones and so hormone

NOTE Confidence: 0.4904061

00:51:44.784 --> 00:51:46.641 deprivation or interference with

NOTE Confidence: 0.4904061

00:51:46.641 --> 00:51:48.766 that receptor and ligand interaction

NOTE Confidence: 0.4904061

00:51:48.766 --> 00:51:51.657 can be a therapeutic option and we

NOTE Confidence: 0.4904061

00:51:51.657 --> 00:51:53.895 have medications that do just that.

NOTE Confidence: 0.4904061

00:51:53.900 --> 00:51:56.412 Her two is a member of the EGFR

NOTE Confidence: 0.4904061

00:51:56.412 --> 00:51:58.879 family of cell surface receptors,

NOTE Confidence: 0.4904061

00:51:58.880 --> 00:52:01.043 and it can be overexpressed in some

NOTE Confidence: 0.4904061

00:52:01.043 --> 00:52:03.749 of the most aggressive breast cancers.

NOTE Confidence: 0.859969678888889

00:52:05.850 --> 00:52:07.620 Her two positive or her her

NOTE Confidence: 0.859969678888889

00:52:07.620 --> 00:52:08.800 two overexpressing cancers are

NOTE Confidence: 0.859969678888889

00:52:08.853 --> 00:52:10.481 often poorly differentiated and

NOTE Confidence: 0.859969678888889

00:52:10.481 --> 00:52:12.109 require chemotherapy and really,

NOTE Confidence: 0.859969678888889

00:52:12.110 --> 00:52:16.250 really aggressive and intense therapy.

NOTE Confidence: 0.859969678888889

00:52:16.250 --> 00:52:18.490 We also have gene expression

NOTE Confidence: 0.859969678888889

00:52:18.490 --> 00:52:20.730 profiles at our disposal that

NOTE Confidence: 0.859969678888889

00:52:20.815 --> 00:52:23.250 can help determine whether or

NOTE Confidence: 0.859969678888889

00:52:23.250 --> 00:52:25.685 not a patient needs chemotherapy.

NOTE Confidence: 0.859969678888889

00:52:25.690 --> 00:52:28.140 One such example is the Oncotype DX,

NOTE Confidence: 0.859969678888889

00:52:28.140 --> 00:52:31.633 which is a 21 cancer related gene

NOTE Confidence: 0.859969678888889

00:52:31.633 --> 00:52:34.313 expression panel that spits out a

NOTE Confidence: 0.859969678888889

00:52:34.313 --> 00:52:37.310 number on a scale of zero to 100.

NOTE Confidence: 0.859969678888889

00:52:37.310 --> 00:52:38.418 The higher the number,

NOTE Confidence: 0.859969678888889

00:52:38.418 --> 00:52:40.430 the higher the risk of the recurrence

NOTE Confidence: 0.859969678888889

00:52:40.430 --> 00:52:43.022 and if that number is over 25 in general

NOTE Confidence: 0.859969678888889

00:52:43.030 --> 00:52:46.390 chemotherapy is going to be discussed.

NOTE Confidence: 0.859969678888889

00:52:46.390 --> 00:52:48.820 It's it's a kind of a a quick and

NOTE Confidence: 0.859969678888889

00:52:48.820 --> 00:52:51.165 dirty way of thinking about what's

NOTE Confidence: 0.859969678888889

00:52:51.165 --> 00:52:53.730 the underlying biology of the cancer.

NOTE Confidence: 0.859969678888889

00:52:53.730 --> 00:52:57.250 In determining who needs chemo,

NOTE Confidence: 0.859969678888889

00:52:57.250 --> 00:52:59.650 we take a lot of things into consideration.

NOTE Confidence: 0.859969678888889

00:52:59.650 --> 00:53:01.834 We take into account medical history and

NOTE Confidence: 0.859969678888889

00:53:01.834 --> 00:53:04.230 the presence or absence of heart disease,

NOTE Confidence: 0.859969678888889

00:53:04.230 --> 00:53:06.302 diabetes, osteoporosis,

NOTE Confidence: 0.859969678888889

00:53:06.302 --> 00:53:09.410 prior venous thromboembolism,

NOTE Confidence: 0.859969678888889

00:53:09.410 --> 00:53:12.510 autoimmune disease and then importantly,

NOTE Confidence: 0.859969678888889

00:53:12.510 --> 00:53:14.466 and we haven't mentioned this much,

NOTE Confidence: 0.859969678888889

00:53:14.470 --> 00:53:17.088 but we take into account family history,

NOTE Confidence: 0.859969678888889

00:53:17.090 --> 00:53:18.998 there are a lot of different

NOTE Confidence: 0.859969678888889

00:53:18.998 --> 00:53:20.270 genetic syndromes associated with

NOTE Confidence: 0.859969678888889

00:53:20.325 --> 00:53:21.987 breast cancer and the presence or

NOTE Confidence: 0.859969678888889

00:53:21.987 --> 00:53:23.920 absence of a genetic predisposition.

NOTE Confidence: 0.859969678888889

00:53:23.920 --> 00:53:25.888 May impact not only local therapy,

NOTE Confidence: 0.859969678888889

00:53:25.890 --> 00:53:27.682 but it's becoming increasingly

NOTE Confidence: 0.859969678888889

00:53:27.682 --> 00:53:30.140 used to determine what systemic

NOTE Confidence: 0.859969678888889

00:53:30.140 --> 00:53:32.360 therapies might be used.

NOTE Confidence: 0.859969678888889

00:53:32.360 --> 00:53:33.812 So I'll quiz you all on

NOTE Confidence: 0.859969678888889

00:53:33.812 --> 00:53:35.200 this a little bit later.

NOTE Confidence: 0.859969678888889

00:53:35.200 --> 00:53:36.805 These are all the chemotherapy

NOTE Confidence: 0.859969678888889

00:53:36.805 --> 00:53:37.447 regimens actually.

NOTE Confidence: 0.859969678888889

00:53:37.450 --> 00:53:38.248 These are not all of them,

NOTE Confidence: 0.859969678888889

00:53:38.250 --> 00:53:39.920 these are some of them,

NOTE Confidence: 0.859969678888889

00:53:39.920 --> 00:53:41.250 but they're complicated and they

NOTE Confidence: 0.859969678888889

00:53:41.250 --> 00:53:42.580 all have different side effects.

NOTE Confidence: 0.859969678888889

00:53:42.580 --> 00:53:43.680 They all have different schedules,

NOTE Confidence: 0.859969678888889

00:53:43.680 --> 00:53:45.140 they all have different needs,

NOTE Confidence: 0.859969678888889

00:53:45.140 --> 00:53:48.980 different central access requirements,

NOTE Confidence: 0.859969678888889

00:53:48.980 --> 00:53:50.900 different durations.

NOTE Confidence: 0.859969678888889

00:53:50.900 --> 00:53:52.262 It's because of this that doctors

NOTE Confidence: 0.859969678888889

00:53:52.262 --> 00:53:53.738 are here and I have a job.

NOTE Confidence: 0.859969678888889

00:53:53.740 --> 00:53:58.420 So, so not to not to make light of this,

00:53:58.420 --> 00:54:00.355 but it's complicated and different

00:54:00.355 --> 00:54:03.010 regimens are used for for different.

00:54:03.010 --> 00:54:05.250 Different settings.

00:54:05.250 --> 00:54:07.586 We use a lot of different chemotherapy drugs.

00:54:07.590 --> 00:54:09.658 Here are some common ones and

00:54:09.658 --> 00:54:11.326 some of the more long-term side

00:54:11.326 --> 00:54:12.590 effects that can happen.

00:54:12.590 --> 00:54:14.210 These are really potent drugs

00:54:14.210 --> 00:54:15.830 that that do kill cancer,

00:54:15.830 --> 00:54:17.244 and it's great that they kill cancer,

00:54:17.250 --> 00:54:19.834 but they can cause other problems as well,

00:54:19.840 --> 00:54:21.481 namely cardiomyopathy with

00:54:21.481 --> 00:54:23.669 some of the anthracyclines,

00:54:23.670 --> 00:54:25.866 neuropathy with some of the taxanes,

00:54:25.870 --> 00:54:27.235 and and hypersensitivity

00:54:27.235 --> 00:54:29.055 reactions across the board.

NOTE Confidence: 0.8808648844

00:54:31.700 --> 00:54:33.228 Just really quickly, we,

NOTE Confidence: 0.8808648844

00:54:33.228 --> 00:54:34.756 the multidisciplinary treatment of

NOTE Confidence: 0.8808648844

00:54:34.756 --> 00:54:36.687 breast cancer does require conversations

NOTE Confidence: 0.8808648844

00:54:36.687 --> 00:54:38.913 for a number of different clinical

NOTE Confidence: 0.8808648844

00:54:38.913 --> 00:54:40.980 scenarios where we have to decide, well,

NOTE Confidence: 0.8808648844

00:54:40.980 --> 00:54:43.260 who's going first, surgery going first?

NOTE Confidence: 0.8808648844

00:54:43.260 --> 00:54:45.198 Is chemotherapy going first? Are we,

NOTE Confidence: 0.8808648844

00:54:45.200 --> 00:54:48.296 are we thinking about other strategies?

NOTE Confidence: 0.8808648844

00:54:48.300 --> 00:54:50.432 And there are different

NOTE Confidence: 0.8808648844

00:54:50.432 --> 00:54:52.564 rationales for doing either.

NOTE Confidence: 0.8808648844

00:54:52.570 --> 00:54:54.295 It's called adjuvant systemic therapy

NOTE Confidence: 0.8808648844

00:54:54.295 --> 00:54:56.906 when surgery is 1st and it's called

NOTE Confidence: 0.8808648844

00:54:56.906 --> 00:54:58.966 neoadjuvant when chemotherapy is first.

NOTE Confidence: 0.8808648844

00:54:58.970 --> 00:55:00.257 So if you ever see that in a note,

NOTE Confidence: 0.8808648844

00:55:00.260 --> 00:55:01.884 that's kind of all that that's describing.

NOTE Confidence: 0.8808648844

00:55:01.890 --> 00:55:04.375 But this really does require

NOTE Confidence: 0.8808648844

00:55:04.375 --> 00:55:05.369 close communication,

NOTE Confidence: 0.8808648844

00:55:05.370 --> 00:55:06.746 particularly between the surgeon

NOTE Confidence: 0.8808648844

00:55:06.746 --> 00:55:08.810 and the and the medical oncologist,

NOTE Confidence: 0.8808648844

00:55:08.810 --> 00:55:10.975 but often requires the radiation

NOTE Confidence: 0.8808648844

00:55:10.975 --> 00:55:13.698 input as well as the reconstructive

NOTE Confidence: 0.8808648844

00:55:13.698 --> 00:55:17.016 surgery input to to plan down the

NOTE Confidence: 0.8808648844

00:55:17.016 --> 00:55:20.090 line once chemotherapy is complete.

NOTE Confidence: 0.8808648844

00:55:20.090 --> 00:55:23.090 And then moving on into the more chronic

NOTE Confidence: 0.8808648844

00:55:23.090 --> 00:55:26.446 phase of cancer of many cancer treatments,

NOTE Confidence: 0.8808648844

00:55:26.450 --> 00:55:29.170 we use a lot of anti estrogen therapy,

NOTE Confidence: 0.8808648844

00:55:29.170 --> 00:55:31.642 namely tamoxifen or other or aromatase

NOTE Confidence: 0.8808648844

00:55:31.642 --> 00:55:33.910 inhibitors which work by preventing

NOTE Confidence: 0.8808648844

00:55:33.910 --> 00:55:35.575 the peripheral aromatization

NOTE Confidence: 0.8808648844

00:55:35.575 --> 00:55:38.578 of steroids into estrogen.

NOTE Confidence: 0.8808648844

00:55:38.578 --> 00:55:42.226 And they work in different ways.

NOTE Confidence: 0.8808648844

00:55:42.230 --> 00:55:44.638 They have pretty nasty

NOTE Confidence: 0.8808648844

00:55:44.638 --> 00:55:46.444 potential side effects.

NOTE Confidence: 0.8808648844

00:55:46.450 --> 00:55:48.194 Tamoxifen can cause vasomotor

NOTE Confidence: 0.8808648844

00:55:48.194 --> 00:55:49.938 symptoms like hot flashes.

NOTE Confidence: 0.8808648844

00:55:49.940 --> 00:55:50.666 Food changes.

NOTE Confidence: 0.8808648844

00:55:50.666 --> 00:55:52.844 There's a small risk of blood

NOTE Confidence: 0.8808648844

00:55:52.844 --> 00:55:54.670 clots and uterine cancer,

NOTE Confidence: 0.8808648844

00:55:54.670 --> 00:55:57.806 although it may be helpful for osteoporosis.

NOTE Confidence: 0.8808648844

00:55:57.810 --> 00:55:58.442 Aromatase inhibitors,

NOTE Confidence: 0.8808648844

00:55:58.442 --> 00:55:59.706 on the other hand,

NOTE Confidence: 0.8808648844

00:55:59.710 --> 00:56:03.054 can cause more of a second menopause in

NOTE Confidence: 0.8808648844

00:56:03.054 --> 00:56:05.072 postmenopausal women with a persistent

NOTE Confidence: 0.8808648844

00:56:05.072 --> 00:56:07.830 or even more pronounced low estrogen state,

NOTE Confidence: 0.8808648844

00:56:07.830 --> 00:56:09.510 and can cause vasomotor symptoms,

NOTE Confidence: 0.8808648844

00:56:09.510 --> 00:56:11.274 accelerated bone loss,

NOTE Confidence: 0.8808648844

00:56:11.274 --> 00:56:14.214 and and even increased cholesterol.

NOTE Confidence: 0.8808648844

00:56:14.220 --> 00:56:16.824 Once we've completed the definitive treatment

NOTE Confidence: 0.8808648844

00:56:16.824 --> 00:56:20.698 or in and are into the surveillance phase,

NOTE Confidence: 0.8808648844

00:56:20.700 --> 00:56:22.608 we do history and physicals one

NOTE Confidence: 0.8808648844

00:56:22.608 --> 00:56:24.280 to four times per year.

NOTE Confidence: 0.8808648844

00:56:24.280 --> 00:56:26.800 We do periodic screenings for family history.

NOTE Confidence: 0.8808648844

00:56:26.800 --> 00:56:29.600 We manage some of the acute and chronic

NOTE Confidence: 0.8808648844

00:56:29.600 --> 00:56:31.819 toxicities of our cancer treatments.

NOTE Confidence: 0.8808648844

00:56:31.820 --> 00:56:33.276 Patients get annual mammograms.

NOTE Confidence: 0.8808648844

00:56:33.276 --> 00:56:35.900 I think it's important to note that

NOTE Confidence: 0.8808648844

00:56:35.900 --> 00:56:37.780 we're not doing routine surveillance

NOTE Confidence: 0.8808648844

00:56:37.780 --> 00:56:40.154 imaging in the absence of clinical

NOTE Confidence: 0.8808648844

00:56:40.154 --> 00:56:42.578 signs and symptoms that suggest recurrence.

NOTE Confidence: 0.8808648844

00:56:42.580 --> 00:56:42.850 However,

NOTE Confidence: 0.8808648844

00:56:42.850 --> 00:56:43.930 there may be a.

NOTE Confidence: 0.8808648844

00:56:43.930 --> 00:56:46.762 A low threshold to image in the

NOTE Confidence: 0.8808648844

00:56:46.762 --> 00:56:48.042 setting of symptoms that meet

NOTE Confidence: 0.8808648844

00:56:48.042 --> 00:56:50.130 what I like to call the three P's

NOTE Confidence: 0.8808648844

00:56:50.130 --> 00:56:51.570 symptoms that are perplexing,

NOTE Confidence: 0.8808648844

00:56:51.570 --> 00:56:53.121 persistent or progressive.

NOTE Confidence: 0.8808648844

00:56:53.121 --> 00:56:55.706 And that's that's where patients

NOTE Confidence: 0.8808648844

00:56:55.706 --> 00:56:59.179 with a history of cancer may end up

NOTE Confidence: 0.8808648844

00:56:59.179 --> 00:57:01.770 getting more scans as a result of.

NOTE Confidence: 0.8808648844

00:57:01.770 --> 00:57:04.066 What may end up being being just

NOTE Confidence: 0.8808648844

00:57:04.066 --> 00:57:06.298 a common problem then a patient

NOTE Confidence: 0.8808648844

00:57:06.298 --> 00:57:07.866 without that same history?

NOTE Confidence: 0.8808648844

00:57:07.870 --> 00:57:10.460 Unfortunately about 15% of the

NOTE Confidence: 0.8808648844

00:57:10.460 --> 00:57:13.050 time are are curative treatments

NOTE Confidence: 0.8808648844

00:57:13.137 --> 00:57:16.197 aren't effective or patients present

NOTE Confidence: 0.8808648844

00:57:16.197 --> 00:57:18.645 with metastatic breast cancer.

NOTE Confidence: 0.8808648844

00:57:18.650 --> 00:57:20.666 The most common sites of breast

NOTE Confidence: 0.8808648844

00:57:20.666 --> 00:57:22.010 cancer metastases are bone,

NOTE Confidence: 0.8808648844

00:57:22.010 --> 00:57:23.052 liver, lung,

NOTE Confidence: 0.8808648844

00:57:23.052 --> 00:57:26.178 with brain being a distant fourth.

NOTE Confidence: 0.8808648844

00:57:26.180 --> 00:57:27.900 Although on average the life

NOTE Confidence: 0.8808648844

00:57:27.900 --> 00:57:29.620 expectancy after a diagnosis of

NOTE Confidence: 0.8808648844

00:57:29.684 --> 00:57:31.580 breast cancer is about two years,

NOTE Confidence: 0.8808648844

00:57:31.580 --> 00:57:34.562 this is a huge spectrum with

NOTE Confidence: 0.8808648844

00:57:34.562 --> 00:57:36.870 patients that could live for

NOTE Confidence: 0.8808648844

00:57:36.870 --> 00:57:38.895 even decades depending on some

NOTE Confidence: 0.8808648844

00:57:38.895 --> 00:57:41.309 of their their disease burden,

NOTE Confidence: 0.8808648844

00:57:41.310 --> 00:57:42.255 their performance status,

NOTE Confidence: 0.8808648844

00:57:42.255 --> 00:57:44.460 what type of breast cancer they have,

NOTE Confidence: 0.8808648844

00:57:44.460 --> 00:57:47.178 and then then the the response

NOTE Confidence: 0.8808648844

00:57:47.178 --> 00:57:50.209 that their cancer has to treatment.

NOTE Confidence: 0.8808648844

00:57:50.210 --> 00:57:52.072 I wanted just to mention that this

NOTE Confidence: 0.8808648844

00:57:52.072 --> 00:57:54.157 is an area that breast cancer and

NOTE Confidence: 0.8808648844

00:57:54.157 --> 00:57:55.999 breast oncology is an area of

NOTE Confidence: 0.880309991

00:57:56.062 --> 00:57:58.278 a lot of research with lots of novel

NOTE Confidence: 0.880309991

00:57:58.278 --> 00:58:01.075 drugs that are all at our beckon

NOTE Confidence: 0.880309991

00:58:01.075 --> 00:58:05.513 call and all of which can be either

NOTE Confidence: 0.880309991

00:58:05.513 --> 00:58:09.384 administered IV IM subcutaneously or or

NOTE Confidence: 0.880309991

00:58:09.384 --> 00:58:12.606 orally with new targeted agents such

NOTE Confidence: 0.880309991

00:58:12.606 --> 00:58:15.890 as CDK 46 inhibitors, PARP inhibitors,

NOTE Confidence: 0.880309991

00:58:15.890 --> 00:58:19.880 PI3 kinase inhibitors and antibody drug.

NOTE Confidence: 0.880309991

00:58:19.880 --> 00:58:21.572 Projects, and I'm not gonna bore you with all

NOTE Confidence: 0.880309991

00:58:21.572 --> 00:58:23.285 of the mechanisms of all of those things,

NOTE Confidence: 0.880309991

00:58:23.290 --> 00:58:26.326 but they are new and exciting,

NOTE Confidence: 0.880309991

00:58:26.330 --> 00:58:28.290 and we're doing an even better job

NOTE Confidence: 0.880309991

00:58:28.290 --> 00:58:29.914 keeping people with metastatic breast

NOTE Confidence: 0.880309991

00:58:29.914 --> 00:58:32.462 cancer alive for longer, to enjoy more

NOTE Confidence: 0.880309991

00:58:32.462 --> 00:58:34.646 quality life with their loved ones.

NOTE Confidence: 0.880309991

00:58:34.650 --> 00:58:37.728 That is all that I have.

NOTE Confidence: 0.880309991

00:58:37.730 --> 00:58:39.389 Thank you very much for the opportunity.

NOTE Confidence: 0.880309991

00:58:39.390 --> 00:58:40.785 I'll turn it back over

NOTE Confidence: 0.880309991

00:58:40.785 --> 00:58:42.180 to I think Doctor Zahir.

NOTE Confidence: 0.795044841666667

00:58:44.070 --> 00:58:45.408 Thank you, Sarah. That was wonderful.

NOTE Confidence: 0.795044841666667

00:58:45.410 --> 00:58:47.520 That was an excellent review of what we do in

NOTE Confidence: 0.795044841666667

00:58:47.570 --> 00:58:49.586 10 minutes and I completely agree with you.

NOTE Confidence: 0.795044841666667

00:58:49.590 --> 00:58:51.720 We try to do what we are doing in New

NOTE Confidence: 0.795044841666667

00:58:51.783 --> 00:58:54.375 Haven and and even more because of the very

NOTE Confidence: 0.795044841666667

00:58:54.375 --> 00:58:56.626 people that are presenting here tonight.

NOTE Confidence: 0.795044841666667

00:58:56.630 --> 00:58:59.366 So before I go on to the last speaker

NOTE Confidence: 0.795044841666667

00:58:59.366 --> 00:59:01.502 of the evening, I just want to

NOTE Confidence: 0.795044841666667

00:59:01.502 --> 00:59:02.750 mention if you have any questions,

NOTE Confidence: 0.795044841666667

00:59:02.750 --> 00:59:04.690 please be prepared to ask.

NOTE Confidence: 0.795044841666667

00:59:04.690 --> 00:59:06.970 And don't be afraid to ask

NOTE Confidence: 0.795044841666667

00:59:06.970 --> 00:59:08.490 and write them down.

NOTE Confidence: 0.795044841666667

00:59:08.490 --> 00:59:10.749 Also, there's a there's a choice to do that.

NOTE Confidence: 0.795044841666667

00:59:10.750 --> 00:59:13.606 So the next speaker is really a pleasure

NOTE Confidence: 0.795044841666667

00:59:13.606 --> 00:59:15.809 to introduce Doctor Susan Higgins,

NOTE Confidence: 0.795044841666667

00:59:15.810 --> 00:59:17.586 who I have known for forever,

NOTE Confidence: 0.795044841666667

00:59:17.590 --> 00:59:19.310 I think for many years.

NOTE Confidence: 0.795044841666667

00:59:19.310 --> 00:59:21.420 She's a professor of therapeutic

NOTE Confidence: 0.795044841666667

00:59:21.420 --> 00:59:23.108 radiology and of obstetrics,

NOTE Confidence: 0.795044841666667

00:59:23.110 --> 00:59:24.638 GYN and reproductive services.

NOTE Confidence: 0.795044841666667

00:59:24.638 --> 00:59:26.930 She she also serves as a.

NOTE Confidence: 0.795044841666667

00:59:26.930 --> 00:59:29.534 Last year of Wellness and engagement

NOTE Confidence: 0.795044841666667

00:59:29.534 --> 00:59:31.806 for therapeutic radiology and she is

NOTE Confidence: 0.795044841666667

00:59:31.806 --> 00:59:33.738 a medical director for the radiation

NOTE Confidence: 0.795044841666667

00:59:33.738 --> 00:59:35.738 Oncology at Shoreline Medical Center.

NOTE Confidence: 0.795044841666667

00:59:35.740 --> 00:59:37.930 She completed her residency in

NOTE Confidence: 0.795044841666667

00:59:37.930 --> 00:59:40.120 therapeutic radiology at Yale and

NOTE Confidence: 0.795044841666667

00:59:40.195 --> 00:59:42.253 Great Great for Yale and all of

NOTE Confidence: 0.795044841666667

00:59:42.253 --> 00:59:44.647 us that she decided to stay here.

NOTE Confidence: 0.795044841666667

00:59:44.650 --> 00:59:46.984 She for nearly 25 years has

NOTE Confidence: 0.795044841666667

00:59:46.984 --> 00:59:49.310 dedicated herself as an educator,

NOTE Confidence: 0.795044841666667

00:59:49.310 --> 00:59:49.820 mentor,

NOTE Confidence: 0.795044841666667

00:59:49.820 --> 00:59:52.880 researcher and above all a dedicated

NOTE Confidence: 0.795044841666667

00:59:52.880 --> 00:59:54.410 clinician at Yale.

NOTE Confidence: 0.795044841666667

00:59:54.410 --> 00:59:57.066 It's really a pleasure to work with her.

NOTE Confidence: 0.795044841666667

00:59:57.070 --> 00:59:57.906 We all,

NOTE Confidence: 0.795044841666667

00:59:57.906 --> 01:00:00.832 the all the patients as well as

NOTE Confidence: 0.795044841666667

01:00:00.832 --> 01:00:03.614 the staff at at the shoreline are

NOTE Confidence: 0.795044841666667

01:00:03.614 --> 01:00:05.840 so grateful that she's here with

NOTE Confidence: 0.795044841666667

01:00:05.910 --> 01:00:08.290 us and takes care of our patients.

NOTE Confidence: 0.795044841666667

01:00:08.290 --> 01:00:08.740 Thank you.

NOTE Confidence: 0.8753506

01:00:12.870 --> 01:00:15.410 So then you're muted.

NOTE Confidence: 0.8753506

01:00:15.410 --> 01:00:16.554 Yep. Thank you Angie.

NOTE Confidence: 0.8753506

01:00:16.554 --> 01:00:18.270 I'm going to share my screen

NOTE Confidence: 0.8753506

01:00:18.270 --> 01:00:21.210 and hopefully let me get to.

NOTE Confidence: 0.83398247

01:00:23.540 --> 01:00:25.640 Let's see if I can get this

NOTE Confidence: 0.83398247

01:00:25.640 --> 01:00:29.030 to show the slideshow. OK.

NOTE Confidence: 0.83398247

01:00:29.030 --> 01:00:30.694 Hold on one second. OK.

NOTE Confidence: 0.83398247

01:00:30.694 --> 01:00:31.590 Can everybody see that?

NOTE Confidence: 0.928922105

01:00:33.820 --> 01:00:35.172 So one of the things I wanted to

NOTE Confidence: 0.928922105

01:00:35.172 --> 01:00:36.549 do was just a little bit of a,

NOTE Confidence: 0.928922105

01:00:36.550 --> 01:00:39.374 a little bit of a historic overview before

NOTE Confidence: 0.928922105

01:00:39.374 --> 01:00:42.607 I talk about radiation and and basically.

NOTE Confidence: 0.928922105

01:00:42.610 --> 01:00:44.374 It continues on some of the themes

NOTE Confidence: 0.928922105

01:00:44.374 --> 01:00:46.068 that others have talked about here.

NOTE Confidence: 0.928922105

01:00:46.070 --> 01:00:47.684 But in terms of the regional

NOTE Confidence: 0.928922105

01:00:47.684 --> 01:00:49.310 oncology services and the shoreline,

NOTE Confidence: 0.928922105

01:00:49.310 --> 01:00:51.608 you know we started the Shoreline

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NOTE Confidence: 0.928922105

01:00:51.608 --> 01:00:53.458 Medical Center actually it's now

NOTE Confidence: 0.928922105

01:00:53.458 --> 01:00:55.434 about 18 years ago and it was one

NOTE Confidence: 0.928922105

01:00:55.434 --> 01:00:57.483 of the first places where we were

NOTE Confidence: 0.928922105

01:00:57.483 --> 01:00:59.823 able to get Yale medical Oncology,

NOTE Confidence: 0.928922105

01:00:59.823 --> 01:01:01.787 radiation oncology and diagnostic

NOTE Confidence: 0.928922105

01:01:01.787 --> 01:01:03.990 imaging under the same roof.

NOTE Confidence: 0.928922105

01:01:03.990 --> 01:01:06.430 And I think we all had you know

NOTE Confidence: 0.928922105

01:01:06.430 --> 01:01:08.224 great hopes for the shoreline that

NOTE Confidence: 0.928922105

01:01:08.224 --> 01:01:10.310 are all now sort of coming true.

NOTE Confidence: 0.928922105

01:01:10.310 --> 01:01:11.870 So it's it's a really exciting

NOTE Confidence: 0.928922105

01:01:11.870 --> 01:01:12.910 time to be here.

NOTE Confidence: 0.928922105

01:01:12.910 --> 01:01:16.134 And Umm, we had served at this phase

NOTE Confidence: 0.928922105

01:01:16.134 --> 01:01:18.200 of the Yale New Haven Hospital,

NOTE Confidence: 0.928922105

01:01:18.200 --> 01:01:19.460 Shoreline Medical Center phase

NOTE Confidence: 0.928922105

01:01:19.460 --> 01:01:20.759 in the early 2000s,

NOTE Confidence: 0.928922105

01:01:20.760 --> 01:01:23.838 but then we in 2019 here,

NOTE Confidence: 0.928922105

01:01:23.840 --> 01:01:25.488 well in the near term we had this

NOTE Confidence: 0.928922105

01:01:25.488 --> 01:01:26.785 smile all of course expansion

NOTE Confidence: 0.928922105

01:01:26.785 --> 01:01:28.175 of our Cancer Center downtown

NOTE Confidence: 0.928922105

01:01:28.175 --> 01:01:29.790 with the Smilow Cancer Center.

NOTE Confidence: 0.928922105

01:01:29.790 --> 01:01:31.502 And then in 2019,

NOTE Confidence: 0.928922105

01:01:31.502 --> 01:01:34.070 the investment in our infrastructure here

NOTE Confidence: 0.928922105

01:01:34.142 --> 01:01:36.578 with the renovation and expansion of

NOTE Confidence: 0.928922105

01:01:36.578 --> 01:01:39.798 all of our oncology and imaging services,

NOTE Confidence: 0.928922105

01:01:39.800 --> 01:01:42.096 including upgrades that gave

NOTE Confidence: 0.928922105

01:01:42.096 --> 01:01:44.966 us a beautiful surgical center.

NOTE Confidence: 0.928922105

01:01:44.970 --> 01:01:47.010 With more accommodations for our

NOTE Confidence: 0.928922105

01:01:47.010 --> 01:01:48.642 breast surgeons including our

NOTE Confidence: 0.928922105

01:01:48.642 --> 01:01:51.051 plastic surgeons and more space for

NOTE Confidence: 0.928922105

01:01:51.051 --> 01:01:52.603 our medical oncology colleagues.

NOTE Confidence: 0.928922105

01:01:52.610 --> 01:01:55.538 And I think that you know we continue

NOTE Confidence: 0.928922105

01:01:55.538 --> 01:01:58.908 to build the team and build the services.

NOTE Confidence: 0.928922105

01:01:58.910 --> 01:02:01.557 And what we're seeing now in 2022

NOTE Confidence: 0.928922105

01:02:01.557 --> 01:02:03.879 as my colleagues have spoken about

NOTE Confidence: 0.928922105

01:02:03.879 --> 01:02:07.545 is that we really have a truly

NOTE Confidence: 0.928922105

01:02:07.545 --> 01:02:08.755 comprehensive multidisciplinary

NOTE Confidence: 0.928922105

01:02:08.755 --> 01:02:11.903 oncology Center for breast care here

NOTE Confidence: 0.928922105

01:02:11.903 --> 01:02:15.280 and we are happy to see you know in our.

NOTE Confidence: 0.928922105

01:02:15.280 --> 01:02:17.205 Our catchment area is expanding.

NOTE Confidence: 0.928922105

01:02:17.210 --> 01:02:18.038 And you know,

NOTE Confidence: 0.928922105

01:02:18.038 --> 01:02:19.970 we're just very happy to serve the

NOTE Confidence: 0.928922105

01:02:20.027 --> 01:02:22.267 community and I think that as you know,

NOTE Confidence: 0.928922105

01:02:22.270 --> 01:02:23.630 we continue to to grow.

NOTE Confidence: 0.928922105

01:02:23.630 --> 01:02:25.611 We're seeing a lot of gratitude from

NOTE Confidence: 0.928922105

01:02:25.611 --> 01:02:27.429 the patients and it's just a great

NOTE Confidence: 0.928922105

01:02:27.429 --> 01:02:29.610 place to work and a great place to Park,

NOTE Confidence: 0.928922105

01:02:29.610 --> 01:02:30.100 right, Sarah?

NOTE Confidence: 0.846441477692308

01:02:32.870 --> 01:02:34.067 Not only a great place to work

NOTE Confidence: 0.846441477692308

01:02:34.067 --> 01:02:35.198 but a great place to Park.

NOTE Confidence: 0.846441477692308

01:02:35.200 --> 01:02:37.270 But anyway, so I just wanted to you know

NOTE Confidence: 0.846441477692308

01:02:37.270 --> 01:02:39.276 just I think if I get one point across

NOTE Confidence: 0.846441477692308

01:02:39.276 --> 01:02:41.137 is we're happy to see your patients,

NOTE Confidence: 0.846441477692308

01:02:41.140 --> 01:02:42.946 we love working here and you know

NOTE Confidence: 0.846441477692308

01:02:42.946 --> 01:02:44.716 it's one stop shopping for patients

NOTE Confidence: 0.846441477692308

01:02:44.716 --> 01:02:46.907 with breast cancer and it's sort of

NOTE Confidence: 0.846441477692308

01:02:46.962 --> 01:02:48.825 a dream come true for a lot of us.

NOTE Confidence: 0.846441477692308

01:02:48.830 --> 01:02:52.200 So basically with regard to

NOTE Confidence: 0.846441477692308

01:02:52.200 --> 01:02:53.548 radiation therapy.

NOTE Confidence: 0.846441477692308

01:02:53.550 --> 01:02:55.766 To do a little bit of an overview,

NOTE Confidence: 0.846441477692308

01:02:55.770 --> 01:02:57.520 uh, people know a little less about

NOTE Confidence: 0.846441477692308

01:02:57.520 --> 01:02:59.162 radiation than they do about some

NOTE Confidence: 0.846441477692308

01:02:59.162 --> 01:03:00.557 of the other oncologic disciplines.

NOTE Confidence: 0.846441477692308

01:03:00.560 --> 01:03:02.954 So I'll just start with like a

NOTE Confidence: 0.846441477692308

01:03:02.954 --> 01:03:05.269 little tiny intro of radiation 101,

NOTE Confidence: 0.846441477692308

01:03:05.270 --> 01:03:07.105 then talk about radiation therapy

NOTE Confidence: 0.846441477692308

01:03:07.105 --> 01:03:08.573 and the multidisciplinary treatment

NOTE Confidence: 0.846441477692308

01:03:08.573 --> 01:03:09.710 of breast cancer,

NOTE Confidence: 0.846441477692308

01:03:09.710 --> 01:03:11.915 both for breast conservation and

NOTE Confidence: 0.846441477692308

01:03:11.915 --> 01:03:15.070 patients who have had a mastectomy.

NOTE Confidence: 0.846441477692308

01:03:15.070 --> 01:03:17.286 And one of the technical advances that I

NOTE Confidence: 0.846441477692308

01:03:17.286 --> 01:03:19.615 wanted to talk about today is one of our,

NOTE Confidence: 0.846441477692308

01:03:19.620 --> 01:03:21.724 our, our projects that we began a few

NOTE Confidence: 0.846441477692308

01:03:21.724 --> 01:03:23.820 years ago that's at all of our sites.

NOTE Confidence: 0.846441477692308

01:03:23.820 --> 01:03:26.052 That has really changed what we do with

NOTE Confidence: 0.846441477692308

01:03:26.052 --> 01:03:28.705 regard to treatment and that's the deep

NOTE Confidence: 0.846441477692308

01:03:28.705 --> 01:03:30.329 inspiration breath hold technique.

NOTE Confidence: 0.846441477692308

01:03:30.330 --> 01:03:31.020 And then finally,

NOTE Confidence: 0.846441477692308

01:03:31.020 --> 01:03:32.630 I thought it would be helpful to

NOTE Confidence: 0.846441477692308

01:03:32.681 --> 01:03:33.923 speak about some of the things

NOTE Confidence: 0.846441477692308

01:03:33.923 --> 01:03:35.768 that we do for our patients with

NOTE Confidence: 0.846441477692308

01:03:35.768 --> 01:03:37.378 metastatic disease because as our

NOTE Confidence: 0.846441477692308

01:03:37.378 --> 01:03:39.716 systemic therapies are getting better,

NOTE Confidence: 0.846441477692308

01:03:39.716 --> 01:03:41.964 we're being called upon.

NOTE Confidence: 0.846441477692308

01:03:41.970 --> 01:03:44.226 We as radiation oncologists are being

NOTE Confidence: 0.846441477692308

01:03:44.226 --> 01:03:46.785 called upon now even more to help

NOTE Confidence: 0.846441477692308

01:03:46.785 --> 01:03:48.765 with the sites of sanctuary sites

NOTE Confidence: 0.846441477692308

01:03:48.765 --> 01:03:51.141 like the CNS and some extracranial

NOTE Confidence: 0.846441477692308

01:03:51.141 --> 01:03:53.116 sites have been static disease.

NOTE Confidence: 0.846441477692308

01:03:53.120 --> 01:03:55.955 So, you know, for five decades now,

NOTE Confidence: 0.846441477692308

01:03:55.960 --> 01:03:57.645 radiation therapy has been an

NOTE Confidence: 0.846441477692308

01:03:57.645 --> 01:03:59.330 essential part of the oncologic

NOTE Confidence: 0.846441477692308

01:03:59.385 --> 01:04:01.180 triad of oncologic treatments and

NOTE Confidence: 0.846441477692308

01:04:01.180 --> 01:04:03.640 about 50% of people who have cancer

NOTE Confidence: 0.846441477692308

01:04:03.640 --> 01:04:05.040 receive radiation therapy during

NOTE Confidence: 0.846441477692308

01:04:05.096 --> 01:04:06.786 their course of their illness.

NOTE Confidence: 0.766930606666667

01:04:09.230 --> 01:04:11.610 And it's radiation is a key component

NOTE Confidence: 0.766930606666667

01:04:11.610 --> 01:04:13.730 of curative breast cancer treatment,

NOTE Confidence: 0.766930606666667

01:04:13.730 --> 01:04:15.795 both in breast conservation therapy

NOTE Confidence: 0.766930606666667

01:04:15.795 --> 01:04:17.860 where patients who receive lumpectomy

NOTE Confidence: 0.766930606666667

01:04:17.921 --> 01:04:19.787 in general with a few exceptions,

NOTE Confidence: 0.766930606666667

01:04:19.790 --> 01:04:21.764 but most patients who get a lumpectomy.

NOTE Confidence: 0.766930606666667

01:04:21.770 --> 01:04:23.970 It's followed by as as

NOTE Confidence: 0.766930606666667

01:04:23.970 --> 01:04:25.730 Doctor Mccallion pointed out,

NOTE Confidence: 0.766930606666667

01:04:25.730 --> 01:04:27.470 we are the cleanup crew radiation

NOTE Confidence: 0.766930606666667

01:04:27.470 --> 01:04:29.211 therapies used to take care of

NOTE Confidence: 0.766930606666667

01:04:29.211 --> 01:04:30.531 microscopic cells that might be

NOTE Confidence: 0.766930606666667

01:04:30.531 --> 01:04:32.853 left in the breast or nodes and

NOTE Confidence: 0.766930606666667

01:04:32.853 --> 01:04:34.329 following mastectomy select patients,

NOTE Confidence: 0.766930606666667

01:04:34.330 --> 01:04:37.708 not all, but many patients received

NOTE Confidence: 0.766930606666667

01:04:37.708 --> 01:04:39.397 postmastectomy radiation therapy.

NOTE Confidence: 0.766930606666667

01:04:39.400 --> 01:04:41.770 To reduce the risk of local

NOTE Confidence: 0.766930606666667

01:04:41.770 --> 01:04:42.560 regional recurrence.

NOTE Confidence: 0.766930606666667

01:04:42.560 --> 01:04:45.570 In either case, radiation has been

NOTE Confidence: 0.766930606666667

01:04:45.570 --> 01:04:47.320 shown to be really safe and effective,

NOTE Confidence: 0.766930606666667

01:04:47.320 --> 01:04:49.728 and it can reduce the risk of local

NOTE Confidence: 0.766930606666667

01:04:49.728 --> 01:04:51.957 and regional recurrences by 50 to 70%.

NOTE Confidence: 0.766930606666667

01:04:51.960 --> 01:04:54.060 And in certain patient subsets,

NOTE Confidence: 0.766930606666667

01:04:54.060 --> 01:04:56.036 radiation therapy is associated

NOTE Confidence: 0.766930606666667

01:04:56.036 --> 01:04:58.506 with an increase in survival.

NOTE Confidence: 0.766930606666667

01:04:58.510 --> 01:05:01.450 And in general, um, this very,

NOTE Confidence: 0.766930606666667

01:05:01.450 --> 01:05:03.058 very basic radiobiology.

NOTE Confidence: 0.766930606666667

01:05:03.058 --> 01:05:05.738 It's ionizing radiation causes damage

NOTE Confidence: 0.766930606666667

01:05:05.738 --> 01:05:08.839 to cellular DNA and in malignant cells.

NOTE Confidence: 0.766930606666667

01:05:08.840 --> 01:05:12.120 They are not able to repair this DNA

NOTE Confidence: 0.766930606666667

01:05:12.120 --> 01:05:14.858 damage and they cannot reproduce

NOTE Confidence: 0.766930606666667

01:05:14.860 --> 01:05:15.733 in normal cells.

NOTE Confidence: 0.766930606666667

01:05:15.733 --> 01:05:17.479 There's also damage to the DNA,

NOTE Confidence: 0.766930606666667

01:05:17.480 --> 01:05:20.560 but it's normal cells are better able

NOTE Confidence: 0.766930606666667

01:05:20.560 --> 01:05:23.578 to repair this type of DNA damage.

NOTE Confidence: 0.766930606666667

01:05:23.580 --> 01:05:25.455 And radiation therapy is delivered

NOTE Confidence: 0.766930606666667

01:05:25.455 --> 01:05:26.955 with the linear accelerator.

NOTE Confidence: 0.766930606666667

01:05:26.960 --> 01:05:29.170 We have two bays downstairs

NOTE Confidence: 0.766930606666667

01:05:29.170 --> 01:05:30.496 in our department,

NOTE Confidence: 0.766930606666667

01:05:30.500 --> 01:05:33.140 we'd say emits high energy photon beams and

NOTE Confidence: 0.766930606666667

01:05:33.140 --> 01:05:35.739 we target the breast and regional nodes.

NOTE Confidence: 0.766930606666667

01:05:35.740 --> 01:05:37.444 And what you see here is just a

NOTE Confidence: 0.766930606666667

01:05:37.444 --> 01:05:38.975 schematic of a patient on the

NOTE Confidence: 0.766930606666667

01:05:38.975 --> 01:05:40.285 treatment table getting what we

NOTE Confidence: 0.766930606666667

01:05:40.285 --> 01:05:41.620 would call breast tangents.

NOTE Confidence: 0.766930606666667

01:05:41.620 --> 01:05:42.957 And in the upper right hand corner,

NOTE Confidence: 0.766930606666667

01:05:42.960 --> 01:05:45.360 you can see that we're targeting

NOTE Confidence: 0.766930606666667

01:05:45.360 --> 01:05:48.130 the breast and we basically have a

NOTE Confidence: 0.766930606666667

01:05:48.130 --> 01:05:50.100 tangential field that comes across

NOTE Confidence: 0.766930606666667

01:05:50.169 --> 01:05:52.085 the chest wall and you can see that

NOTE Confidence: 0.766930606666667

01:05:52.085 --> 01:05:53.839 sometimes we have a little bit of underlying.

NOTE Confidence: 0.766930606666667

01:05:53.840 --> 01:05:55.534 Along in the field and we're going

NOTE Confidence: 0.766930606666667

01:05:55.534 --> 01:05:57.180 to talk about that in a minute.

NOTE Confidence: 0.766930606666667

01:05:57.180 --> 01:05:57.976 But basically,

NOTE Confidence: 0.766930606666667

01:05:57.976 --> 01:05:59.966 as Doctor Magellan referred to,

NOTE Confidence: 0.766930606666667

01:05:59.970 --> 01:06:02.105 we do daily treatments and it's delivered

NOTE Confidence: 0.766930606666667

01:06:02.105 --> 01:06:04.260 over the course of three to six weeks,

NOTE Confidence: 0.766930606666667

01:06:04.260 --> 01:06:06.858 so there is some time involved.

NOTE Confidence: 0.766930606666667

01:06:06.860 --> 01:06:08.850 Treatment again is directed at

NOTE Confidence: 0.766930606666667

01:06:08.850 --> 01:06:11.345 the breast or chest wall with

NOTE Confidence: 0.766930606666667

01:06:11.345 --> 01:06:13.460 or without the regional nodes.

01:06:13.460 --> 01:06:15.259 And the way it's done is in

01:06:15.259 --> 01:06:17.060 terms of the just logistics,

01:06:17.060 --> 01:06:18.520 patients come in for something

01:06:18.520 --> 01:06:19.396 called the simulation,

01:06:19.400 --> 01:06:21.052 which is a CAT scan and they're

01:06:21.052 --> 01:06:22.371 immobilized in the position that

01:06:22.371 --> 01:06:24.039 we're going to use for treatment.

01:06:24.040 --> 01:06:25.860 And basically it's shown here

01:06:25.860 --> 01:06:27.680 they're on a slant board.

01:06:27.680 --> 01:06:29.129 The arms are over the head because

01:06:29.129 --> 01:06:30.958 we need to have the arms out of the

01:06:30.958 --> 01:06:32.457 way when we treat the breast and

01:06:32.457 --> 01:06:34.032 the nose with with fields that are

01:06:34.040 --> 01:06:36.836 directed and those at the chest.

01:06:36.840 --> 01:06:38.910 And what we get is a CT scan that

01:06:38.910 --> 01:06:40.618 shows us the patient's entire,

NOTE Confidence: 0.766930606666667

01:06:40.620 --> 01:06:41.104 you know,

NOTE Confidence: 0.766930606666667

01:06:41.104 --> 01:06:43.685 body and we can do sort of a 3D

NOTE Confidence: 0.766930606666667

01:06:43.685 --> 01:06:46.108 reconstruction. Of their body.

NOTE Confidence: 0.766930606666667

01:06:46.110 --> 01:06:48.616 And the doctor then goes to the

NOTE Confidence: 0.766930606666667

01:06:48.616 --> 01:06:51.162 computer and we use that CT data

NOTE Confidence: 0.766930606666667

01:06:51.162 --> 01:06:52.206 set to contour.

NOTE Confidence: 0.766930606666667

01:06:52.210 --> 01:06:54.172 We will contour out the targets

NOTE Confidence: 0.766930606666667

01:06:54.172 --> 01:06:56.586 which are the breast and the nodes

NOTE Confidence: 0.766930606666667

01:06:56.586 --> 01:06:58.316 and then the physician prescribes

NOTE Confidence: 0.766930606666667

01:06:58.316 --> 01:07:00.459 the the dose to those targets.

NOTE Confidence: 0.766930606666667

01:07:00.460 --> 01:07:02.700 Then then our sophisticated

NOTE Confidence: 0.766930606666667

01:07:02.700 --> 01:07:04.380 treatment planning system

NOTE Confidence: 0.808383406

01:07:04.380 --> 01:07:05.630 comes up with what we

NOTE Confidence: 0.808383406

01:07:05.630 --> 01:07:06.880 call a 3D conformal plan.

NOTE Confidence: 0.808383406

01:07:06.880 --> 01:07:09.124 It's a basically the optimal beam

NOTE Confidence: 0.808383406

01:07:09.124 --> 01:07:11.021 arrangement and the beam strength

NOTE Confidence: 0.808383406

01:07:11.021 --> 01:07:13.324 and beam shape to maximize the dose

NOTE Confidence: 0.808383406

01:07:13.324 --> 01:07:15.791 to the targets which breast in nodes

NOTE Confidence: 0.808383406

01:07:15.791 --> 01:07:18.350 and minimize the dose to the organs

NOTE Confidence: 0.808383406

01:07:18.350 --> 01:07:21.185 at risk like the lung and heart.

NOTE Confidence: 0.808383406

01:07:21.190 --> 01:07:22.958 So this is sort of a what a

NOTE Confidence: 0.808383406

01:07:22.958 --> 01:07:24.785 this actually comes right off of

NOTE Confidence: 0.808383406

01:07:24.785 --> 01:07:26.109 our treatment planning system.

NOTE Confidence: 0.808383406

01:07:26.110 --> 01:07:27.818 This is what you would see when

NOTE Confidence: 0.808383406

01:07:27.818 --> 01:07:29.619 you do that 3D conformal treatment

NOTE Confidence: 0.808383406

01:07:29.619 --> 01:07:31.629 in the upper left hand corner.

NOTE Confidence: 0.808383406

01:07:31.630 --> 01:07:33.058 I don't know if you could see

NOTE Confidence: 0.808383406

01:07:33.058 --> 01:07:34.747 my can you see my pointer here?

NOTE Confidence: 0.808383406

01:07:34.750 --> 01:07:37.366 Probably not, but in the upper,

NOTE Confidence: 0.808383406

01:07:37.370 --> 01:07:39.404 you can't good in the upper left hand corner.

NOTE Confidence: 0.808383406

01:07:39.410 --> 01:07:40.364 Thank you, Sarah.

NOTE Confidence: 0.808383406

01:07:40.364 --> 01:07:42.590 You can see there are two tangential

NOTE Confidence: 0.808383406

01:07:42.650 --> 01:07:44.558 fields and there's a green that

NOTE Confidence: 0.808383406

01:07:44.558 --> 01:07:46.949 represents the dose to the breast tissue.

NOTE Confidence: 0.808383406

01:07:46.950 --> 01:07:48.646 So this would be a right breast cancer,

NOTE Confidence: 0.808383406

01:07:48.650 --> 01:07:50.484 a beam would be coming this way

NOTE Confidence: 0.808383406

01:07:50.484 --> 01:07:51.270 from the right,

NOTE Confidence: 0.808383406

01:07:51.270 --> 01:07:54.110 a beam from the left and then a

NOTE Confidence: 0.808383406

01:07:54.110 --> 01:07:56.610 single field that's pointed at the

NOTE Confidence: 0.808383406

01:07:56.610 --> 01:07:58.350 patient for the Super cloud fields.

NOTE Confidence: 0.808383406

01:07:58.350 --> 01:08:00.526 But this would be a typical sort of

NOTE Confidence: 0.808383406

01:08:00.526 --> 01:08:01.947 dose distribution and this is the,

NOTE Confidence: 0.808383406

01:08:01.950 --> 01:08:04.820 this is what the physician basically is.

NOTE Confidence: 0.808383406

01:08:04.820 --> 01:08:07.548 Is going to you know devise in order

NOTE Confidence: 0.808383406

01:08:07.548 --> 01:08:10.438 to treat that patients breast cancer.

NOTE Confidence: 0.808383406

01:08:10.440 --> 01:08:13.024 I'm a have one sort of schematic here

NOTE Confidence: 0.808383406

01:08:13.024 --> 01:08:15.602 just to show you again this is a

NOTE Confidence: 0.808383406

01:08:15.602 --> 01:08:17.950 cross section of a patient's heart.

NOTE Confidence: 0.808383406

01:08:17.950 --> 01:08:20.725 In Gray's lungs in black,

NOTE Confidence: 0.808383406

01:08:20.730 --> 01:08:22.340 the actual treatment fields for

NOTE Confidence: 0.808383406

01:08:22.340 --> 01:08:23.628 a right breast cancer,

NOTE Confidence: 0.808383406

01:08:23.630 --> 01:08:25.046 one would be the lateral field,

NOTE Confidence: 0.808383406

01:08:25.050 --> 01:08:27.538 one would be a medial field and the

NOTE Confidence: 0.808383406

01:08:27.538 --> 01:08:29.549 beams basically treat the breast and

NOTE Confidence: 0.808383406

01:08:29.549 --> 01:08:31.529 just some of the underlying lung.

NOTE Confidence: 0.853085722222222

01:08:33.540 --> 01:08:35.433 For postmastectomy radiation,

NOTE Confidence: 0.853085722222222

01:08:35.433 --> 01:08:39.219 it's very similar sort of theme.

NOTE Confidence: 0.853085722222222

01:08:39.220 --> 01:08:41.446 But in this case, we're treating the

NOTE Confidence: 0.853085722222222

01:08:41.446 --> 01:08:43.940 chest wall or a reconstructed breast,

NOTE Confidence: 0.853085722222222

01:08:43.940 --> 01:08:46.832 whether that's an implant or a

NOTE Confidence: 0.853085722222222

01:08:46.832 --> 01:08:48.892 deep flap and the regional notes.

NOTE Confidence: 0.853085722222222

01:08:48.892 --> 01:08:51.138 So again, you can see on the patient

NOTE Confidence: 0.853085722222222

01:08:51.138 --> 01:08:53.134 that the regional notes up above in

NOTE Confidence: 0.853085722222222

01:08:53.134 --> 01:08:55.374 the clavicle area and under the arm are

NOTE Confidence: 0.853085722222222

01:08:55.374 --> 01:08:57.558 being treated along with the chest wall.

NOTE Confidence: 0.853085722222222

01:08:57.560 --> 01:09:00.696 And not everyone who has a mastectomy

NOTE Confidence: 0.853085722222222

01:09:00.696 --> 01:09:02.040 needs postmastectomy radiation.

NOTE Confidence: 0.853085722222222

01:09:02.040 --> 01:09:04.242 We often have lots of discussions

NOTE Confidence: 0.853085722222222

01:09:04.242 --> 01:09:06.094 with patients about whether they

NOTE Confidence: 0.853085722222222

01:09:06.094 --> 01:09:08.296 fall into the category that is high

NOTE Confidence: 0.853085722222222

01:09:08.296 --> 01:09:09.786 risk and that usually includes.

NOTE Confidence: 0.853085722222222

01:09:09.790 --> 01:09:13.018 Patients with positive nodes AT3 or

NOTE Confidence: 0.853085722222222

01:09:13.018 --> 01:09:15.420 larger tumor or a positive margin.

NOTE Confidence: 0.928653492142857

01:09:17.590 --> 01:09:20.229 So what has happened over the years

NOTE Confidence: 0.928653492142857

01:09:20.229 --> 01:09:23.428 is that our technical advances have

NOTE Confidence: 0.928653492142857

01:09:23.428 --> 01:09:25.715 basically been aimed at making this

NOTE Confidence: 0.928653492142857

01:09:25.715 --> 01:09:27.662 a safer treatment, and that means

NOTE Confidence: 0.928653492142857

01:09:27.662 --> 01:09:29.606 maximizing the dose of the target,

NOTE Confidence: 0.928653492142857

01:09:29.610 --> 01:09:31.824 minimizing the dose to the underlying

NOTE Confidence: 0.928653492142857

01:09:31.824 --> 01:09:34.410 organs and for left press treatment,

NOTE Confidence: 0.928653492142857

01:09:34.410 --> 01:09:35.960 the underlying organs that we're

NOTE Confidence: 0.928653492142857

01:09:35.960 --> 01:09:38.130 trying to spare a lung and heart.

NOTE Confidence: 0.928653492142857

01:09:38.130 --> 01:09:40.216 So one of the new things we've

NOTE Confidence: 0.928653492142857

01:09:40.216 --> 01:09:42.569 been able to do in the last few

NOTE Confidence: 0.928653492142857

01:09:42.569 --> 01:09:45.244 years is to address this with the

NOTE Confidence: 0.928653492142857

01:09:45.244 --> 01:09:46.840 deep inspiration breath hold.

NOTE Confidence: 0.928653492142857

01:09:46.840 --> 01:09:47.136 Technique.

NOTE Confidence: 0.928653492142857

01:09:47.136 --> 01:09:49.504 But let me just show you what the

NOTE Confidence: 0.928653492142857

01:09:49.504 --> 01:09:51.559 challenge is from an anatomic standpoint.

NOTE Confidence: 0.928653492142857

01:09:51.560 --> 01:09:53.600 I think was just showing you that the

NOTE Confidence: 0.928653492142857

01:09:53.600 --> 01:09:55.180 tangent fields that we're trying to

NOTE Confidence: 0.928653492142857

01:09:55.180 --> 01:09:57.017 use are coming across the chest wall

NOTE Confidence: 0.928653492142857

01:09:57.017 --> 01:09:58.816 and you're trying to treat the green,

NOTE Confidence: 0.928653492142857

01:09:58.820 --> 01:10:01.232 which is the breast tissue without

NOTE Confidence: 0.928653492142857

01:10:01.232 --> 01:10:02.840 encountering too much lung,

NOTE Confidence: 0.928653492142857

01:10:02.840 --> 01:10:07.097 which is black and heart circled here in red.

NOTE Confidence: 0.928653492142857

01:10:07.100 --> 01:10:08.619 But the problem is, in many ladies,

NOTE Confidence: 0.928653492142857

01:10:08.620 --> 01:10:10.900 the heart and lung are immediately

NOTE Confidence: 0.928653492142857

01:10:10.900 --> 01:10:12.420 adjacent to our target.

NOTE Confidence: 0.928653492142857

01:10:12.420 --> 01:10:13.716 And in the past,

NOTE Confidence: 0.928653492142857

01:10:13.716 --> 01:10:15.336 we could adjust the beams,

NOTE Confidence: 0.928653492142857

01:10:15.340 --> 01:10:16.804 we could change the strength of the beam,

NOTE Confidence: 0.928653492142857

01:10:16.810 --> 01:10:17.720 the angle of the beam,

NOTE Confidence: 0.928653492142857

01:10:17.720 --> 01:10:19.100 we could shape the beam,

NOTE Confidence: 0.928653492142857

01:10:19.100 --> 01:10:21.926 but we couldn't change the anatomy.

NOTE Confidence: 0.928653492142857

01:10:21.930 --> 01:10:24.266 So we do now have a technique to

NOTE Confidence: 0.928653492142857

01:10:24.266 --> 01:10:27.322 do that and it's called the deep

NOTE Confidence: 0.928653492142857

01:10:27.322 --> 01:10:29.238 inspiration breath hole technique.

NOTE Confidence: 0.928653492142857

01:10:29.240 --> 01:10:31.118 And it's there are two things

NOTE Confidence: 0.928653492142857

01:10:31.118 --> 01:10:33.935 we need to do this we have to

NOTE Confidence: 0.928653492142857

01:10:33.935 --> 01:10:35.795 use in surface imaging system.

NOTE Confidence: 0.928653492142857

01:10:35.800 --> 01:10:36.040 Uh,

NOTE Confidence: 0.928653492142857

01:10:36.040 --> 01:10:37.240 a specific surface imaging system

NOTE Confidence: 0.928653492142857

01:10:37.240 --> 01:10:38.758 that I'll show you in a minute,

NOTE Confidence: 0.928653492142857

01:10:38.760 --> 01:10:42.160 and a special gated treatment

NOTE Confidence: 0.928653492142857

01:10:42.160 --> 01:10:43.520 delivery system.

NOTE Confidence: 0.928653492142857

01:10:43.520 --> 01:10:46.382 So the surface imaging system is

NOTE Confidence: 0.928653492142857

01:10:46.382 --> 01:10:49.608 a new technology that allows us to

NOTE Confidence: 0.928653492142857

01:10:49.608 --> 01:10:52.457 map out and actually in real time

NOTE Confidence: 0.928653492142857

01:10:52.547 --> 01:10:55.284 put a surface map on a patient.

NOTE Confidence: 0.928653492142857

01:10:55.290 --> 01:10:56.910 Using a light system,

NOTE Confidence: 0.928653492142857

01:10:56.910 --> 01:10:58.935 there are three cameras and

NOTE Confidence: 0.928653492142857

01:10:58.935 --> 01:11:01.544 we're able to check a patient's

NOTE Confidence: 0.928653492142857

01:11:01.544 --> 01:11:03.696 position prior to treatment.

NOTE Confidence: 0.928653492142857

01:11:03.700 --> 01:11:06.908 And see if they're in the correct position.

NOTE Confidence: 0.928653492142857

01:11:06.910 --> 01:11:09.094 By looking at the overlay of a pre

NOTE Confidence: 0.928653492142857

01:11:09.094 --> 01:11:11.662 sort of pre recorded or pre obtained

NOTE Confidence: 0.928653492142857

01:11:11.662 --> 01:11:13.612 body contour and basically when

NOTE Confidence: 0.928653492142857

01:11:13.686 --> 01:11:15.990 blue and green coincide they're in

NOTE Confidence: 0.928653492142857

01:11:15.990 --> 01:11:17.826 the exact right position position.

NOTE Confidence: 0.928653492142857

01:11:17.826 --> 01:11:20.490 Every part of their body is within a few

NOTE Confidence: 0.928653492142857

01:11:20.557 --> 01:11:23.109 millimeters on you know where it should be,

NOTE Confidence: 0.928653492142857

01:11:23.110 --> 01:11:25.614 but if you see red or yellow that

NOTE Confidence: 0.928653492142857

01:11:25.614 --> 01:11:28.201 means that body part is in or out of

NOTE Confidence: 0.928653492142857

01:11:28.201 --> 01:11:30.349 the plane of the field and basically

NOTE Confidence: 0.928653492142857

01:11:30.349 --> 01:11:33.061 that allows us to maneuver them in the

NOTE Confidence: 0.928653492142857

01:11:33.061 --> 01:11:35.229 exact position prior to treatment,

NOTE Confidence: 0.928653492142857

01:11:35.230 --> 01:11:36.910 which is really important again

NOTE Confidence: 0.928653492142857

01:11:36.910 --> 01:11:38.254 when we're trying to.

NOTE Confidence: 0.928653492142857

01:11:38.260 --> 01:11:39.980 Deliver with, you know,

NOTE Confidence: 0.928653492142857

01:11:39.980 --> 01:11:42.130 sub millimeter to millimeter accuracy.

NOTE Confidence: 0.928653492142857

01:11:42.130 --> 01:11:43.999 The other thing this does is allows

NOTE Confidence: 0.928653492142857

01:11:43.999 --> 01:11:46.174 us to track in real time this these

NOTE Confidence: 0.928653492142857

01:11:46.174 --> 01:11:48.177 cameras are on in real time and

NOTE Confidence: 0.928653492142857

01:11:48.177 --> 01:11:50.403 giving constant feedback so that as a

NOTE Confidence: 0.928653492142857

01:11:50.403 --> 01:11:52.795 patient's chest wall changes in the

NOTE Confidence: 0.928653492142857

01:11:52.795 --> 01:11:56.070 motion of the chest as the chest wall moves,

NOTE Confidence: 0.928653492142857

01:11:56.070 --> 01:11:57.366 we are all we are able

NOTE Confidence: 0.928653492142857

01:11:57.370 --> 01:11:58.796 to track the chest wall.

NOTE Confidence: 0.928653492142857

01:11:58.796 --> 01:12:00.632 And that allows us to perform

NOTE Confidence: 0.928653492142857

01:12:00.632 --> 01:12:02.709 what we call gated treatments.

NOTE Confidence: 0.928653492142857

01:12:02.710 --> 01:12:04.726 So when the patient is breathing

NOTE Confidence: 0.928653492142857

01:12:04.726 --> 01:12:06.879 we can choose when to deliver

NOTE Confidence: 0.928653492142857

01:12:06.879 --> 01:12:09.093 radiation and when to have the

NOTE Confidence: 0.928653492142857

01:12:09.093 --> 01:12:11.523 radiation beam stopped and we call

NOTE Confidence: 0.928653492142857

01:12:11.523 --> 01:12:12.738 those gated treatments.

NOTE Confidence: 0.855748158

01:12:12.740 --> 01:12:14.310 So it actually all starts

NOTE Confidence: 0.855748158

01:12:14.310 --> 01:12:15.880 when we simulate the patient.

NOTE Confidence: 0.855748158

01:12:15.880 --> 01:12:17.987 So when they come in for simulation

NOTE Confidence: 0.855748158

01:12:17.987 --> 01:12:19.804 and we used a basically a

NOTE Confidence: 0.855748158

01:12:19.804 --> 01:12:21.778 just a mockup of a torso here.

NOTE Confidence: 0.855748158

01:12:21.780 --> 01:12:22.590 But when they come in,

NOTE Confidence: 0.855748158

01:12:22.590 --> 01:12:24.888 there's a a camera here that

NOTE Confidence: 0.855748158

01:12:24.888 --> 01:12:27.223 actually starts to collect this data

NOTE Confidence: 0.855748158

01:12:27.223 --> 01:12:29.413 on their surface of the patient,

NOTE Confidence: 0.855748158

01:12:29.420 --> 01:12:31.090 collects the surface image and

NOTE Confidence: 0.855748158

01:12:31.090 --> 01:12:33.691 we pick up a spot for tracking

NOTE Confidence: 0.855748158

01:12:33.691 --> 01:12:35.407 their chest wall motion.

NOTE Confidence: 0.855748158

01:12:35.410 --> 01:12:39.618 And who so once we picked that spot?

NOTE Confidence: 0.855748158

01:12:39.620 --> 01:12:41.528 We then have the patient start

NOTE Confidence: 0.855748158

01:12:41.528 --> 01:12:43.451 breathing and where this is what

NOTE Confidence: 0.855748158

01:12:43.451 --> 01:12:45.227 we're seeing in the control room,

NOTE Confidence: 0.855748158

01:12:45.230 --> 01:12:46.658 the patients actually in,

NOTE Confidence: 0.855748158

01:12:46.658 --> 01:12:49.460 let's imagine this patients in the simulator.

NOTE Confidence: 0.855748158

01:12:49.460 --> 01:12:51.140 And we're tracking this position on

NOTE Confidence: 0.855748158

01:12:51.140 --> 01:12:54.350 their chest. They have these goggles on.

NOTE Confidence: 0.855748158

01:12:54.350 --> 01:12:57.670 We asked them to basically,

NOTE Confidence: 0.855748158

01:12:57.670 --> 01:12:58.945 this is their baseline breath

NOTE Confidence: 0.855748158

01:12:58.945 --> 01:13:00.789 and then we ask them to inhale.

NOTE Confidence: 0.855748158

01:13:00.790 --> 01:13:02.375 You'll see they'll hold their

NOTE Confidence: 0.855748158

01:13:02.375 --> 01:13:04.418 breath and then we exhale and

NOTE Confidence: 0.855748158

01:13:04.418 --> 01:13:05.986 the baseline breathing inhale.

NOTE Confidence: 0.855748158

01:13:05.990 --> 01:13:08.279 What we're trying to do is figure

NOTE Confidence: 0.855748158

01:13:08.279 --> 01:13:10.794 out exactly what position can they

NOTE Confidence: 0.855748158

01:13:10.794 --> 01:13:13.154 sort of reproducibly obtain with,

NOTE Confidence: 0.855748158

01:13:13.160 --> 01:13:14.660 you know, expanding their chest.

NOTE Confidence: 0.855748158

01:13:14.660 --> 01:13:15.959 In other words,

NOTE Confidence: 0.855748158

01:13:15.959 --> 01:13:18.124 what's their kind of comfortable

NOTE Confidence: 0.855748158

01:13:18.124 --> 01:13:19.570 breath hold volume?

NOTE Confidence: 0.855748158

01:13:19.570 --> 01:13:21.236 And it's really cool because what was

NOTE Confidence: 0.855748158

01:13:21.236 --> 01:13:22.730 really interesting about this is we thought,

NOTE Confidence: 0.855748158

01:13:22.730 --> 01:13:22.882 oh,

NOTE Confidence: 0.855748158

01:13:22.882 --> 01:13:24.250 this is going to be too much for patients.

NOTE Confidence: 0.855748158

01:13:24.250 --> 01:13:26.105 It's going to make them really nervous.

NOTE Confidence: 0.855748158

01:13:26.110 --> 01:13:27.832 But what was really cool about it

NOTE Confidence: 0.855748158

01:13:27.832 --> 01:13:29.778 was it gave them something to do.

NOTE Confidence: 0.7889869675

01:13:30.460 --> 01:13:31.840 And the Goggles Act

NOTE Confidence: 0.866093403333334

01:13:31.850 --> 01:13:34.874 sort of like A to insulate them from other,

NOTE Confidence: 0.866093403333334

01:13:34.880 --> 01:13:35.430 like, distractors.

NOTE Confidence: 0.866093403333334

01:13:35.430 --> 01:13:37.630 And it actually helped a lot of our

NOTE Confidence: 0.866093403333334

01:13:37.681 --> 01:13:39.257 patients feel more comfortable.

NOTE Confidence: 0.866093403333334

01:13:39.260 --> 01:13:40.760 And I think people like to

NOTE Confidence: 0.866093403333334

01:13:40.760 --> 01:13:41.760 participate in their care.

NOTE Confidence: 0.866093403333334

01:13:41.760 --> 01:13:42.937 You know, people like say, oh,

NOTE Confidence: 0.866093403333334

01:13:42.937 --> 01:13:44.456 what can I do to help myself?

NOTE Confidence: 0.866093403333334

01:13:44.460 --> 01:13:46.076 And when we tell them this is something

NOTE Confidence: 0.866093403333334

01:13:46.076 --> 01:13:47.720 you could do and you can't do it wrong,

NOTE Confidence: 0.866093403333334

01:13:47.720 --> 01:13:49.589 they like that.

NOTE Confidence: 0.866093403333334

01:13:49.590 --> 01:13:53.132 So when we do the simulation and you look at.

NOTE Confidence: 0.866093403333334

01:13:53.132 --> 01:13:54.524 The comparison will do

NOTE Confidence: 0.866093403333334

01:13:54.524 --> 01:13:56.050 basically a simulation.

NOTE Confidence: 0.866093403333334

01:13:56.050 --> 01:13:57.387 We'll look at it in free breathing,

NOTE Confidence: 0.866093403333334

01:13:57.390 --> 01:13:58.332 and we'll look at what their

NOTE Confidence: 0.866093403333334

01:13:58.332 --> 01:13:59.230 chest looks like in breath.

NOTE Confidence: 0.866093403333334

01:13:59.230 --> 01:14:00.618 Hold on the left.

NOTE Confidence: 0.866093403333334

01:14:00.618 --> 01:14:03.940 You can see this patient in free breathing.

NOTE Confidence: 0.866093403333334

01:14:03.940 --> 01:14:05.578 The chest is right up against,

NOTE Confidence: 0.866093403333334

01:14:05.580 --> 01:14:06.884 I'm sorry, the the.

NOTE Confidence: 0.866093403333334

01:14:06.884 --> 01:14:09.650 Heart is right up against the chest wall.

NOTE Confidence: 0.866093403333334

01:14:09.650 --> 01:14:12.138 You could see the heart sitting on the

NOTE Confidence: 0.866093403333334

01:14:12.138 --> 01:14:14.541 diaphragm on the right when they expand

NOTE Confidence: 0.866093403333334

01:14:14.541 --> 01:14:16.989 their chest and the diaphragm moves down.

NOTE Confidence: 0.866093403333334

01:14:16.990 --> 01:14:19.153 The heart that creates a little space

NOTE Confidence: 0.866093403333334

01:14:19.153 --> 01:14:21.209 between the heart and the chest wall.

NOTE Confidence: 0.866093403333334

01:14:21.210 --> 01:14:23.450 So diaphragm drops and the heart moves

NOTE Confidence: 0.866093403333334

01:14:23.450 --> 01:14:25.709 down and away from the chest wall.

NOTE Confidence: 0.866093403333334

01:14:25.710 --> 01:14:28.473 So now when we go to do our planning.

NOTE Confidence: 0.866093403333334

01:14:28.480 --> 01:14:29.260 So Step 2,

NOTE Confidence: 0.866093403333334

01:14:29.260 --> 01:14:30.560 as you did your simulation,

NOTE Confidence: 0.866093403333334

01:14:30.560 --> 01:14:32.030 now you want to go back and

NOTE Confidence: 0.866093403333334

01:14:32.030 --> 01:14:32.940 do your treatment plan.

NOTE Confidence: 0.866093403333334

01:14:32.940 --> 01:14:35.496 And on the left you could see free breathing.

01:14:35.500 --> 01:14:37.756 The chest is sort of collapsed.

01:14:37.760 --> 01:14:38.604 And there's the line.

01:14:38.604 --> 01:14:40.283 That little green line is where we'd like

01:14:40.283 --> 01:14:41.779 to put the edge of our tangent field.

01:14:41.780 --> 01:14:42.758 You could see it's right near,

01:14:42.760 --> 01:14:44.765 actually right near the left

01:14:44.765 --> 01:14:45.968 anterior descending artery.

01:14:45.970 --> 01:14:47.380 But when the patient on the

01:14:47.380 --> 01:14:48.610 is doing their breath hold,

01:14:48.610 --> 01:14:49.858 this is the same patient on

01:14:49.858 --> 01:14:50.950 the right and breath hold.

01:14:50.950 --> 01:14:52.786 We've moved the chest on the

01:14:52.786 --> 01:14:54.641 contents of the chest such that

01:14:54.641 --> 01:14:56.615 the heart is now moved away from

01:14:56.615 --> 01:14:58.651 the field and a smaller portion of

01:14:58.651 --> 01:15:00.344 the lung is now being radiated.

NOTE Confidence: 0.866093403333334

01:15:00.344 --> 01:15:02.318 So actually you know it was really

NOTE Confidence: 0.866093403333334

01:15:02.318 --> 01:15:04.310 a game changer because now you know

NOTE Confidence: 0.866093403333334

01:15:04.310 --> 01:15:06.450 your your sort of therapeutic ratio,

NOTE Confidence: 0.866093403333334

01:15:06.450 --> 01:15:08.510 your risk benefit is really

NOTE Confidence: 0.866093403333334

01:15:08.510 --> 01:15:10.570 changed because you've been able

NOTE Confidence: 0.866093403333334

01:15:10.640 --> 01:15:12.700 to change the internal organs.

NOTE Confidence: 0.866093403333334

01:15:12.700 --> 01:15:13.348 And then finally,

NOTE Confidence: 0.866093403333334

01:15:13.348 --> 01:15:14.860 when they get on the treatment machine,

NOTE Confidence: 0.866093403333334

01:15:14.860 --> 01:15:16.252 you have to have what's called

NOTE Confidence: 0.866093403333334

01:15:16.252 --> 01:15:17.180 a gated delivery system.

NOTE Confidence: 0.866093403333334

01:15:17.180 --> 01:15:19.588 So now we've set up the plan.

NOTE Confidence: 0.866093403333334

01:15:19.590 --> 01:15:21.126 They know what to do with the goggles,

NOTE Confidence: 0.866093403333334

01:15:21.130 --> 01:15:22.708 but when you actually deliver radiation,

NOTE Confidence: 0.866093403333334

01:15:22.710 --> 01:15:24.859 you have to have a system that

NOTE Confidence: 0.866093403333334

01:15:24.859 --> 01:15:26.565 basically will only give the

NOTE Confidence: 0.866093403333334

01:15:26.565 --> 01:15:28.375 radiation when they're in the

NOTE Confidence: 0.866093403333334

01:15:28.375 --> 01:15:30.042 exact correct breath hold position.

NOTE Confidence: 0.866093403333334

01:15:30.042 --> 01:15:32.490 And I tell them you can't do it wrong

NOTE Confidence: 0.866093403333334

01:15:32.552 --> 01:15:34.869 because they all get nervous about that.

NOTE Confidence: 0.866093403333334

01:15:34.870 --> 01:15:36.872 But basically we have three cameras in

NOTE Confidence: 0.866093403333334

01:15:36.872 --> 01:15:39.156 the room and the three cameras again

NOTE Confidence: 0.866093403333334

01:15:39.156 --> 01:15:41.660 are tracking the patient's chest wall motion.

NOTE Confidence: 0.866093403333334

01:15:41.660 --> 01:15:42.638 And we have,

NOTE Confidence: 0.866093403333334

01:15:42.638 --> 01:15:45.520 the patient has their goggles in the goggles,

NOTE Confidence: 0.866093403333334

01:15:45.520 --> 01:15:47.080 they see this little green box

NOTE Confidence: 0.866093403333334

01:15:47.080 --> 01:15:48.989 and the orange is like sort of a,

NOTE Confidence: 0.866093403333334

01:15:48.990 --> 01:15:50.486 a vertical line that goes up and down.

NOTE Confidence: 0.866093403333334

01:15:50.490 --> 01:15:52.380 And this biofeedback allows them

NOTE Confidence: 0.866093403333334

01:15:52.380 --> 01:15:54.674 to position their chest in exactly

NOTE Confidence: 0.866093403333334

01:15:54.674 --> 01:15:56.672 the right spot and when they're

NOTE Confidence: 0.866093403333334

01:15:56.672 --> 01:15:57.671 in that spot

NOTE Confidence: 0.817686503461538

01:15:57.742 --> 01:15:59.860 and their chest wall is expanded.

NOTE Confidence: 0.817686503461538

01:15:59.860 --> 01:16:01.148 The beam goes on,

NOTE Confidence: 0.817686503461538

01:16:01.148 --> 01:16:02.758 treatments delivered in 20 seconds,

NOTE Confidence: 0.817686503461538

01:16:02.760 --> 01:16:05.427 30 seconds at a time and when

NOTE Confidence: 0.817686503461538

01:16:05.427 --> 01:16:07.840 they exhale the beam goes off.

NOTE Confidence: 0.817686503461538

01:16:07.840 --> 01:16:09.784 So this is a way that you know

NOTE Confidence: 0.817686503461538

01:16:09.784 --> 01:16:11.852 again with this system that we use

NOTE Confidence: 0.817686503461538

01:16:11.852 --> 01:16:13.282 we can significantly reduce the

NOTE Confidence: 0.817686503461538

01:16:13.282 --> 01:16:15.290 the dose to the heart and lung.

NOTE Confidence: 0.817686503461538

01:16:15.290 --> 01:16:17.418 And again it was a real game changer

NOTE Confidence: 0.817686503461538

01:16:17.418 --> 01:16:19.419 because this is an actually this is

NOTE Confidence: 0.817686503461538

01:16:19.419 --> 01:16:21.238 being used with lymphomas and other

NOTE Confidence: 0.817686503461538

01:16:21.238 --> 01:16:22.630 thoracic malignancies because now

NOTE Confidence: 0.817686503461538

01:16:22.630 --> 01:16:24.758 using breath hold we can actually

NOTE Confidence: 0.817686503461538

01:16:24.758 --> 01:16:27.161 change their anatomy to suit what

NOTE Confidence: 0.817686503461538

01:16:27.161 --> 01:16:30.388 we need to do for the malignancy.

NOTE Confidence: 0.817686503461538

01:16:30.390 --> 01:16:32.322 And then just two final things

NOTE Confidence: 0.817686503461538

01:16:32.322 --> 01:16:34.090 I wanted to speak about.

NOTE Confidence: 0.817686503461538

01:16:34.090 --> 01:16:36.142 Now that we have such great

NOTE Confidence: 0.817686503461538

01:16:36.142 --> 01:16:36.826 systemic therapies,

NOTE Confidence: 0.817686503461538

01:16:36.830 --> 01:16:39.882 we are seeing that we're using more

NOTE Confidence: 0.817686503461538

01:16:39.882 --> 01:16:42.831 and more radiation therapy and a

NOTE Confidence: 0.817686503461538

01:16:42.831 --> 01:16:47.220 stereotactic fashion to deliver radiation.

NOTE Confidence: 0.817686503461538

01:16:47.220 --> 01:16:49.500 In higher doses to more targeted

NOTE Confidence: 0.817686503461538

01:16:49.500 --> 01:16:52.601 sites so that we can optimize the

NOTE Confidence: 0.817686503461538

01:16:52.601 --> 01:16:55.262 control of both intracranial and

NOTE Confidence: 0.817686503461538

01:16:55.262 --> 01:16:57.248 extracranial metastatic disease.

NOTE Confidence: 0.817686503461538

01:16:57.248 --> 01:16:59.896 For intracranial metastatic disease,

NOTE Confidence: 0.817686503461538

01:16:59.900 --> 01:17:02.784 we have the only gamma knife stereotactic

NOTE Confidence: 0.817686503461538

01:17:02.784 --> 01:17:04.760 radiosurgery unit in the state.

NOTE Confidence: 0.817686503461538

01:17:04.760 --> 01:17:07.196 We have a huge gamma knife program.

NOTE Confidence: 0.817686503461538

01:17:07.200 --> 01:17:08.055 It's very active.

NOTE Confidence: 0.817686503461538

01:17:08.055 --> 01:17:09.765 I don't know how many thousands

NOTE Confidence: 0.817686503461538

01:17:09.765 --> 01:17:11.478 of patients they see a year,

NOTE Confidence: 0.817686503461538

01:17:11.480 --> 01:17:13.472 but it's I'd say the gamma knife is

NOTE Confidence: 0.817686503461538

01:17:13.472 --> 01:17:15.510 pretty much running almost all the time.

NOTE Confidence: 0.817686503461538

01:17:15.510 --> 01:17:17.855 Now we also have a new program

NOTE Confidence: 0.817686503461538

01:17:17.855 --> 01:17:18.860 with Doctor Ann,

NOTE Confidence: 0.817686503461538

01:17:18.860 --> 01:17:22.658 which is the Spine SRS program

NOTE Confidence: 0.817686503461538

01:17:22.660 --> 01:17:24.880 and that program with Doctor

NOTE Confidence: 0.817686503461538

01:17:24.880 --> 01:17:27.100 Mandel is getting very active.

NOTE Confidence: 0.817686503461538

01:17:27.100 --> 01:17:27.976 And I'll just.

NOTE Confidence: 0.817686503461538

01:17:27.976 --> 01:17:30.020 I'll give the little background in why

NOTE Confidence: 0.817686503461538

01:17:30.079 --> 01:17:32.116 we do spine radiosurgery in a minute,

NOTE Confidence: 0.817686503461538

01:17:32.120 --> 01:17:34.344 but we also have the ability to do

NOTE Confidence: 0.817686503461538

01:17:34.344 --> 01:17:36.651 body radio surgery and that would

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NOTE Confidence: 0.817686503461538

01:17:36.651 --> 01:17:39.042 be for sites that again someone

NOTE Confidence: 0.817686503461538

01:17:39.042 --> 01:17:40.854 has a long disease free interval,

NOTE Confidence: 0.817686503461538

01:17:40.860 --> 01:17:42.743 something comes up in a site that

NOTE Confidence: 0.817686503461538

01:17:42.743 --> 01:17:45.326 we feel might be the only site or a

NOTE Confidence: 0.817686503461538

01:17:45.326 --> 01:17:47.076 limited site of extracranial metastatic

NOTE Confidence: 0.817686503461538

01:17:47.076 --> 01:17:50.500 disease. We can also do body SRS.

NOTE Confidence: 0.817686503461538

01:17:50.500 --> 01:17:53.302 So any type of stereotactic radiosurgery

NOTE Confidence: 0.817686503461538

01:17:53.302 --> 01:17:55.840 requires a very highly precise,

NOTE Confidence: 0.817686503461538

01:17:55.840 --> 01:17:58.008 precise treatment and a

NOTE Confidence: 0.817686503461538

01:17:58.008 --> 01:17:59.634 lot of immobilization.

NOTE Confidence: 0.817686503461538

01:17:59.640 --> 01:18:00.820 But the advantage there is

NOTE Confidence: 0.817686503461538

01:18:00.820 --> 01:18:02.360 that you can treat a large,

NOTE Confidence: 0.817686503461538

01:18:02.360 --> 01:18:04.435 a small target with extremely

NOTE Confidence: 0.817686503461538

01:18:04.435 --> 01:18:06.980 high doses and very high dose,

NOTE Confidence: 0.817686503461538

01:18:06.980 --> 01:18:08.212 steep falloff of dose.

NOTE Confidence: 0.817686503461538

01:18:08.212 --> 01:18:10.060 So very little dose to the

NOTE Confidence: 0.817686503461538

01:18:10.129 --> 01:18:12.144 surrounding tissue and it's typically

NOTE Confidence: 0.817686503461538

01:18:12.144 --> 01:18:14.159 done in a single fraction.

NOTE Confidence: 0.817686503461538

01:18:14.160 --> 01:18:15.720 This is actually being used very,

NOTE Confidence: 0.817686503461538

01:18:15.720 --> 01:18:17.540 very frequently for lung cancers.

NOTE Confidence: 0.817686503461538

01:18:17.540 --> 01:18:19.538 Now for early stage lung cancer,

NOTE Confidence: 0.817686503461538

01:18:19.540 --> 01:18:21.640 the benefit from metastases is,

NOTE Confidence: 0.817686503461538

01:18:21.640 --> 01:18:23.936 is that you can get more durable local

NOTE Confidence: 0.817686503461538

01:18:23.936 --> 01:18:26.008 control and again in select patients.

NOTE Confidence: 0.804687427777778

01:18:28.290 --> 01:18:31.234 As they spoke about with the spine SBRT

NOTE Confidence: 0.804687427777778

01:18:31.234 --> 01:18:34.868 program, the spine SBRT, here's just a.

NOTE Confidence: 0.804687427777778

01:18:34.870 --> 01:18:36.914 Schematic that shows how precise it is.

NOTE Confidence: 0.804687427777778

01:18:36.920 --> 01:18:39.404 You can see that you can take this very

NOTE Confidence: 0.804687427777778

01:18:39.404 --> 01:18:41.678 high dose curve which is red and wrap

NOTE Confidence: 0.804687427777778

01:18:41.678 --> 01:18:44.153 a very high dose around the vertebral

NOTE Confidence: 0.804687427777778

01:18:44.153 --> 01:18:46.523 body while avoiding the spinal canal,

NOTE Confidence: 0.804687427777778

01:18:46.530 --> 01:18:50.002 canal, spinal cord and that dose can be

NOTE Confidence: 0.804687427777778

01:18:50.002 --> 01:18:52.850 adjusted within again a few millimeters.

NOTE Confidence: 0.804687427777778

01:18:52.850 --> 01:18:54.110 It's a very precise treatment.

NOTE Confidence: 0.804687427777778

01:18:54.110 --> 01:18:56.194 It requires milligrams, etcetera,

NOTE Confidence: 0.804687427777778

01:18:56.194 --> 01:18:58.799 but very helpful for various

NOTE Confidence: 0.804687427777778

01:18:58.799 --> 01:19:00.290 patient populations.

NOTE Confidence: 0.804687427777778

01:19:00.290 --> 01:19:02.551 Spinus PRT is being used for people

NOTE Confidence: 0.804687427777778

01:19:02.551 --> 01:19:04.040 with oligo metastatic disease,

NOTE Confidence: 0.804687427777778

01:19:04.040 --> 01:19:07.220 especially if it's a new diagnosis.

NOTE Confidence: 0.804687427777778

01:19:07.220 --> 01:19:09.302 Some people have a limited metastatic

NOTE Confidence: 0.804687427777778

01:19:09.302 --> 01:19:11.224 lesion after a long interval

NOTE Confidence: 0.804687427777778

01:19:11.224 --> 01:19:13.080 from their primary diagnosis.

NOTE Confidence: 0.804687427777778

01:19:13.080 --> 01:19:16.224 Or for people who have previously

NOTE Confidence: 0.804687427777778

01:19:16.224 --> 01:19:17.796 radiated spine metastases,

NOTE Confidence: 0.804687427777778

01:19:17.800 --> 01:19:19.500 we've done maybe external beam,

NOTE Confidence: 0.804687427777778

01:19:19.500 --> 01:19:21.336 and then they have a recurrence,

NOTE Confidence: 0.804687427777778

01:19:21.340 --> 01:19:22.099 which is unusual,

NOTE Confidence: 0.804687427777778

01:19:22.099 --> 01:19:24.220 but maybe a recurrence a few years later.

NOTE Confidence: 0.804687427777778

01:19:24.220 --> 01:19:26.676 We can give this and spare the spinal

NOTE Confidence: 0.804687427777778

01:19:26.676 --> 01:19:29.028 cord and treat the vertebral body.

NOTE Confidence: 0.804687427777778

01:19:29.030 --> 01:19:29.918 And finally,

NOTE Confidence: 0.804687427777778

01:19:29.918 --> 01:19:32.582 just our gamma knife program and

NOTE Confidence: 0.804687427777778

01:19:32.582 --> 01:19:35.058 especially in this era of of very,

NOTE Confidence: 0.804687427777778

01:19:35.060 --> 01:19:37.800 very effective targeted therapies,

NOTE Confidence: 0.804687427777778

01:19:37.800 --> 01:19:40.540 we still have the,

NOTE Confidence: 0.804687427777778

01:19:40.540 --> 01:19:42.878 the brain is still a sanctuary site.

NOTE Confidence: 0.804687427777778

01:19:42.880 --> 01:19:46.219 We are still dealing with people who

NOTE Confidence: 0.804687427777778

01:19:46.219 --> 01:19:49.215 have uncontrolled or come to us with

NOTE Confidence: 0.804687427777778

01:19:49.215 --> 01:19:50.436 uncontrolled intracranial disease.

NOTE Confidence: 0.804687427777778

01:19:50.440 --> 01:19:51.748 And with our gamma knife program,

NOTE Confidence: 0.804687427777778

01:19:51.750 --> 01:19:54.262 we're able to deliver very high doses of

NOTE Confidence: 0.804687427777778

01:19:54.262 --> 01:19:56.498 radiation to multiple brain metastases.

NOTE Confidence: 0.804687427777778

01:19:56.500 --> 01:19:58.120 It's a single treatment session.

NOTE Confidence: 0.804687427777778

01:19:58.120 --> 01:19:59.038 People go home.

NOTE Confidence: 0.804687427777778

01:19:59.038 --> 01:20:01.670 I know that Doctor Bindra says his famous,

NOTE Confidence: 0.804687427777778

01:20:01.670 --> 01:20:01.882 his,

NOTE Confidence: 0.804687427777778

01:20:01.882 --> 01:20:03.790 his favorite call is like the people who say,

NOTE Confidence: 0.804687427777778

01:20:03.790 --> 01:20:04.240 Oh yeah,

NOTE Confidence: 0.804687427777778

01:20:04.240 --> 01:20:06.040 I just went golfing like the guys like

NOTE Confidence: 0.804687427777778

01:20:06.092 --> 01:20:07.856 24 hours out and he gives him a follow

NOTE Confidence: 0.804687427777778

01:20:07.856 --> 01:20:09.689 up call and the guy was out golfing.

NOTE Confidence: 0.804687427777778

01:20:09.690 --> 01:20:11.022 It's a very,

NOTE Confidence: 0.804687427777778

01:20:11.022 --> 01:20:11.910 very beneficial,

NOTE Confidence: 0.804687427777778

01:20:11.910 --> 01:20:15.434 very effective treatment and gives more

NOTE Confidence: 0.804687427777778

01:20:15.434 --> 01:20:17.366 durable local control for brain medicine,

NOTE Confidence: 0.804687427777778

01:20:17.370 --> 01:20:18.930 significant decrease in morbidity

NOTE Confidence: 0.804687427777778

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01:20:18.930 --> 01:20:20.880 when compared with our standard

NOTE Confidence: 0.804687427777778

01:20:20.880 --> 01:20:22.650 whole brain radiation therapy.

NOTE Confidence: 0.804687427777778

01:20:22.650 --> 01:20:23.676 And you know,

NOTE Confidence: 0.804687427777778

01:20:23.676 --> 01:20:26.070 Doctor Chang and my other colleagues are

NOTE Confidence: 0.804687427777778

01:20:26.135 --> 01:20:28.263 just always available and a doctor is

NOTE Confidence: 0.804687427777778

01:20:28.263 --> 01:20:31.139 here and I work really closely with them.

NOTE Confidence: 0.804687427777778

01:20:31.140 --> 01:20:33.100 And and Doctor Mcgauley and we we can

NOTE Confidence: 0.804687427777778

01:20:33.100 --> 01:20:35.037 get those patients to the gamma knife

NOTE Confidence: 0.804687427777778

01:20:35.037 --> 01:20:36.765 people to the spine radio surgeons

NOTE Confidence: 0.804687427777778

01:20:36.765 --> 01:20:38.774 and anything they need at any time.

NOTE Confidence: 0.804687427777778

01:20:38.780 --> 01:20:40.931 So we we have a very like hand in

NOTE Confidence: 0.804687427777778

01:20:40.931 --> 01:20:43.136 glove type of relationship with them.

NOTE Confidence: 0.804687427777778

01:20:43.140 --> 01:20:45.040 So basically radiation therapy

NOTE Confidence: 0.804687427777778

01:20:45.040 --> 01:20:47.415 to summarize is an essential

NOTE Confidence: 0.804687427777778

01:20:47.415 --> 01:20:49.818 part of the multidisciplinary.

NOTE Confidence: 0.804687427777778

01:20:49.820 --> 01:20:51.248 Treatment for breast cancer,

NOTE Confidence: 0.804687427777778

01:20:51.248 --> 01:20:53.390 it's very safe and effective and

NOTE Confidence: 0.804687427777778

01:20:53.452 --> 01:20:55.420 you know I think the DBH is making

NOTE Confidence: 0.804687427777778

01:20:55.420 --> 01:20:57.431 it even more safe and effective and

NOTE Confidence: 0.804687427777778

01:20:57.431 --> 01:20:59.654 it reduces the risk of local and

NOTE Confidence: 0.804687427777778

01:20:59.654 --> 01:21:01.916 regional recurrence by 50 to 70%.

NOTE Confidence: 0.804687427777778

01:21:01.920 --> 01:21:03.999 And you know what's really I think

NOTE Confidence: 0.804687427777778

01:21:03.999 --> 01:21:06.285 going to help in the future with

NOTE Confidence: 0.804687427777778

01:21:06.285 --> 01:21:07.940 quality of life for patients,

NOTE Confidence: 0.804687427777778

01:21:07.940 --> 01:21:10.406 especially for gamma knife is the

NOTE Confidence: 0.804687427777778

01:21:10.406 --> 01:21:12.621 use of these stereotactic procedures

NOTE Confidence: 0.804687427777778

01:21:12.621 --> 01:21:15.096 to to control local regional

NOTE Confidence: 0.804687427777778

01:21:15.096 --> 01:21:17.076 disease and metastatic disease.

NOTE Confidence: 0.804687427777778

01:21:17.080 --> 01:21:17.960 Thank you very much.

NOTE Confidence: 0.807927305

01:21:21.560 --> 01:21:25.272 Thank you Susan for a very you

NOTE Confidence: 0.807927305

01:21:25.272 --> 01:21:27.240 know good comprehensive review,

NOTE Confidence: 0.807927305

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01:21:27.240 --> 01:21:29.478 comprehensive with short review of radiation

NOTE Confidence: 0.807927305

01:21:29.478 --> 01:21:31.779 oncology and what we provide here.

NOTE Confidence: 0.807927305

01:21:31.780 --> 01:21:33.784 The the biggest thing is availability

NOTE Confidence: 0.807927305

01:21:33.784 --> 01:21:35.977 of all the providers and really the

NOTE Confidence: 0.807927305

01:21:35.977 --> 01:21:38.191 great thing that I can call you and

NOTE Confidence: 0.807927305

01:21:38.191 --> 01:21:39.985 get the person in fairly quickly

NOTE Confidence: 0.807927305

01:21:39.985 --> 01:21:42.198 within the same day or sometimes

NOTE Confidence: 0.807927305

01:21:42.198 --> 01:21:44.814 within 24 hours and that's wonderful.

NOTE Confidence: 0.807927305

01:21:44.820 --> 01:21:46.682 So thank you very much for everybody

NOTE Confidence: 0.807927305

01:21:46.682 --> 01:21:48.781 to to join us today and I just

NOTE Confidence: 0.807927305

01:21:48.781 --> 01:21:50.456 was hoping we would have some

NOTE Confidence: 0.807927305

01:21:50.456 --> 01:21:51.948 questions from the audience.

NOTE Confidence: 0.863517245

01:21:54.280 --> 01:21:55.570 I had. I don't see any.

NOTE Confidence: 0.863517245

01:21:55.570 --> 01:21:57.640 No, there is one question here.

NOTE Confidence: 0.890116198

01:21:57.710 --> 01:21:59.418 I'm going to stop sharing. There we go.

NOTE Confidence: 0.88826765375

01:22:01.930 --> 01:22:03.274 I don't know how do they ask

NOTE Confidence: 0.88826765375

01:22:03.274 --> 01:22:04.130 questions, I'm not sure.

NOTE Confidence: 0.898097536363636

01:22:05.820 --> 01:22:06.980 I'm looking at the question

NOTE Confidence: 0.898097536363636

01:22:06.980 --> 01:22:08.440 answer in the in the chat,

NOTE Confidence: 0.898097536363636

01:22:08.440 --> 01:22:12.238 but I don't see any so.

NOTE Confidence: 0.898097536363636

01:22:12.240 --> 01:22:14.337 So I may ask one question of all the,

NOTE Confidence: 0.898097536363636

01:22:14.340 --> 01:22:16.140 you know, all the speakers

NOTE Confidence: 0.898097536363636

01:22:16.140 --> 01:22:17.940 tonight and anyone can answer.

NOTE Confidence: 0.898097536363636

01:22:17.940 --> 01:22:20.916 Umm, it's a very simple question.

NOTE Confidence: 0.898097536363636

01:22:20.920 --> 01:22:22.915 What do you think is the most

NOTE Confidence: 0.898097536363636

01:22:22.915 --> 01:22:24.355 important advance in breast cancer

NOTE Confidence: 0.898097536363636

01:22:24.355 --> 01:22:26.451 over the past year and it can be

NOTE Confidence: 0.898097536363636

01:22:26.514 --> 01:22:28.348 one or two sentences and we can

NOTE Confidence: 0.898097536363636

01:22:28.348 --> 01:22:30.199 finish up this meeting this evening.

NOTE Confidence: 0.898097536363636

01:22:30.199 --> 01:22:31.964 Sarah, you want to start.

NOTE Confidence: 0.750245201666667

01:22:32.740 --> 01:22:34.996 So in in breast medical oncology,

NOTE Confidence: 0.750245201666667

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01:22:35.000 --> 01:22:37.177 I think the the biggest breakthrough was

NOTE Confidence: 0.750245201666667

01:22:37.177 --> 01:22:39.817 the use of an antibody drug conjugate,

NOTE Confidence: 0.750245201666667

01:22:39.820 --> 01:22:42.190 which is kind of like a.

NOTE Confidence: 0.750245201666667

01:22:42.190 --> 01:22:44.240 Very directed heat seeking missile

NOTE Confidence: 0.750245201666667

01:22:44.240 --> 01:22:47.036 toward the her two protein which is

NOTE Confidence: 0.750245201666667

01:22:47.036 --> 01:22:48.877 effective in not just people who have

NOTE Confidence: 0.750245201666667

01:22:48.877 --> 01:22:50.770 truly hurt to overexpressing cancers,

NOTE Confidence: 0.750245201666667

01:22:50.770 --> 01:22:52.800 but lots of different other kinds that

NOTE Confidence: 0.750245201666667

01:22:52.800 --> 01:22:54.908 have very low levels of expression.

NOTE Confidence: 0.750245201666667

01:22:54.910 --> 01:22:56.720 Kind of revolutionary in the

NOTE Confidence: 0.750245201666667

01:22:56.720 --> 01:22:58.530 treatment of metastatic disease waji.

NOTE Confidence: 0.750245201666667

01:22:58.530 --> 01:23:00.978 I would point out that there is a

NOTE Confidence: 0.750245201666667

01:23:00.978 --> 01:23:03.152 question that asks about the best way to

NOTE Confidence: 0.750245201666667

01:23:03.152 --> 01:23:04.999 initiate a referral to the breast team.

NOTE Confidence: 0.884426565

01:23:06.310 --> 01:23:07.258 You can answer there,

NOTE Confidence: 0.90554838

01:23:07.330 --> 01:23:11.810 OK. We are happy to take referrals

NOTE Confidence: 0.90554838

01:23:11.810 --> 01:23:13.900 through any referrals to breast

NOTE Confidence: 0.90554838

01:23:13.900 --> 01:23:15.990 surgery can be breast surgery.

NOTE Confidence: 0.90554838

01:23:15.990 --> 01:23:18.384 Guildford can be breast surgery New Haven.

NOTE Confidence: 0.90554838

01:23:18.390 --> 01:23:20.154 And a part of our process is to try

NOTE Confidence: 0.90554838

01:23:20.154 --> 01:23:22.136 to make sure that we're accommodating

NOTE Confidence: 0.90554838

01:23:22.136 --> 01:23:23.866 where the patient's coming from.

NOTE Confidence: 0.90554838

01:23:23.870 --> 01:23:25.232 So that if the patient is

NOTE Confidence: 0.90554838

01:23:25.232 --> 01:23:26.140 located on the shoreline,

NOTE Confidence: 0.90554838

01:23:26.140 --> 01:23:27.820 we really try to get them into

NOTE Confidence: 0.90554838

01:23:27.820 --> 01:23:29.075 the shoreline because there's no

NOTE Confidence: 0.90554838

01:23:29.075 --> 01:23:30.755 reason for them to shut down and

NOTE Confidence: 0.90554838

01:23:30.755 --> 01:23:32.067 tolerate the air rights garage.

NOTE Confidence: 0.90616145375

01:23:33.600 --> 01:23:35.360 And you know, if there's ever any question,

NOTE Confidence: 0.90616145375

01:23:35.360 --> 01:23:36.540 you're welcome to call us.

NOTE Confidence: 0.90616145375

01:23:36.540 --> 01:23:38.157 Any one of us call me especially

NOTE Confidence: 0.90616145375

01:23:38.157 --> 01:23:39.580 if you want to. I mean,

NOTE Confidence: 0.90616145375

01:23:39.580 --> 01:23:41.840 I will get the person in right away.

NOTE Confidence: 0.90616145375

01:23:41.840 --> 01:23:43.590 All of the providers here.

NOTE Confidence: 0.90616145375

01:23:43.590 --> 01:23:45.198 I know, I know they can,

NOTE Confidence: 0.90616145375

01:23:45.200 --> 01:23:46.288 they can make space.

NOTE Confidence: 0.919081644444445

01:23:49.020 --> 01:23:50.940 I happen to know that people sit in

NOTE Confidence: 0.919081644444445

01:23:50.940 --> 01:23:52.838 the queue for our referrals for less

NOTE Confidence: 0.919081644444445

01:23:52.838 --> 01:23:54.950 than 24 hours, so we usually make those

NOTE Confidence: 0.919081644444445

01:23:54.950 --> 01:23:56.240 appointments within one business day.

NOTE Confidence: 0.854417813571428

01:24:00.280 --> 01:24:02.224 So Leanne, what do you want to tell

NOTE Confidence: 0.854417813571428

01:24:02.224 --> 01:24:03.812 us about the latest development

NOTE Confidence: 0.854417813571428

01:24:03.812 --> 01:24:07.120 in radiology over the past year,

NOTE Confidence: 0.854417813571428

01:24:07.120 --> 01:24:08.288 there have been many.

NOTE Confidence: 0.9131738125

01:24:10.010 --> 01:24:13.110 In the past year.

NOTE Confidence: 0.9131738125

01:24:13.110 --> 01:24:15.318 Not really sure if there's anything

NOTE Confidence: 0.9131738125

01:24:15.318 --> 01:24:17.860 really in the in the past year.

NOTE Confidence: 0.9131738125

01:24:17.860 --> 01:24:20.644 I mean there are things artificial

NOTE Confidence: 0.9131738125

01:24:20.644 --> 01:24:22.036 intelligence is obviously

NOTE Confidence: 0.9131738125

01:24:22.036 --> 01:24:24.099 taking off in breast imaging.

NOTE Confidence: 0.9131738125

01:24:24.100 --> 01:24:25.445 It's a challenging area though

NOTE Confidence: 0.9131738125

01:24:25.445 --> 01:24:27.310 compared to other areas of radiology.

NOTE Confidence: 0.9131738125

01:24:27.310 --> 01:24:29.286 Mammography is just really

NOTE Confidence: 0.9131738125

01:24:29.286 --> 01:24:31.756 one of the hardest things.

NOTE Confidence: 0.9131738125

01:24:31.760 --> 01:24:34.007 But I think we'll see that coming

NOTE Confidence: 0.9131738125

01:24:34.007 --> 01:24:36.105 very shortly and that should help

NOTE Confidence: 0.9131738125

01:24:36.105 --> 01:24:38.229 us some you know hopefully improve

NOTE Confidence: 0.9131738125

01:24:38.229 --> 01:24:40.139 our accuracy and reduce again

NOTE Confidence: 0.9131738125

01:24:40.139 --> 01:24:42.377 reduce a lot of false positives.

NOTE Confidence: 0.9131738125

01:24:42.380 --> 01:24:43.860 I think that's that's where I see it,

NOTE Confidence: 0.9131738125

01:24:43.860 --> 01:24:46.348 it helping a lot.

NOTE Confidence: 0.9131738125

01:24:46.350 --> 01:24:47.700 I can't share any more slides

NOTE Confidence: 0.9131738125

01:24:47.700 --> 01:24:48.375 on Thomas synthesis,

NOTE Confidence: 0.9131738125

01:24:48.380 --> 01:24:50.228 but we're going to be presenting

NOTE Confidence: 0.9131738125

01:24:50.228 --> 01:24:51.467 data next month looking,

NOTE Confidence: 0.9131738125

01:24:51.467 --> 01:24:52.081 you know,

NOTE Confidence: 0.9131738125

01:24:52.081 --> 01:24:54.230 we've been doing it for 10 years

NOTE Confidence: 0.9131738125

01:24:54.292 --> 01:24:56.189 and looking at all of our cancers

NOTE Confidence: 0.9131738125

01:24:56.189 --> 01:24:57.848 on detected with Thomas synthesis

NOTE Confidence: 0.9131738125

01:24:57.848 --> 01:24:59.930 and comparing it with the 2D

NOTE Confidence: 0.9131738125

01:24:59.994 --> 01:25:02.076 mammography and we are finding a

NOTE Confidence: 0.9131738125

01:25:02.076 --> 01:25:04.000 difference in the advanced cancers,

NOTE Confidence: 0.9131738125

01:25:04.000 --> 01:25:09.140 significantly fewer advanced cancers, so.

NOTE Confidence: 0.9131738125

01:25:09.140 --> 01:25:10.388 You know,

NOTE Confidence: 0.9131738125

01:25:10.388 --> 01:25:12.614 that's it's encouraging you know,

NOTE Confidence: 0.9131738125

01:25:12.614 --> 01:25:13.499 because we just don't want

NOTE Confidence: 0.9131738125

01:25:13.499 --> 01:25:14.360 to find more cancers,

NOTE Confidence: 0.9131738125

01:25:14.360 --> 01:25:16.448 we want to find the bad cancers and we're

NOTE Confidence: 0.9131738125

01:25:16.448 --> 01:25:18.400 finding the bad cancers at a a lower stage.

NOTE Confidence: 0.9131738125

01:25:18.400 --> 01:25:21.658 So really feel good about that.

NOTE Confidence: 0.9131738125

01:25:21.660 --> 01:25:22.644 So, you know,

NOTE Confidence: 0.9131738125

01:25:22.644 --> 01:25:24.940 definitely tomosynthesis is is here to stay,

NOTE Confidence: 0.9131738125

01:25:24.940 --> 01:25:26.130 there's no doubt about that.

NOTE Confidence: 0.9131738125

01:25:26.130 --> 01:25:26.578 But yeah,

NOTE Confidence: 0.9131738125

01:25:26.578 --> 01:25:27.922 I think AI is going to

NOTE Confidence: 0.9131738125

01:25:27.922 --> 01:25:29.299 be the next big thing.

NOTE Confidence: 0.85171378

01:25:31.190 --> 01:25:32.630 Any of the other speakers,

NOTE Confidence: 0.85171378

01:25:32.630 --> 01:25:35.118 Paris or Greg, Susan,

NOTE Confidence: 0.790515968333333

01:25:36.170 --> 01:25:38.890 I would say in the in the plastic

NOTE Confidence: 0.790515968333333

01:25:38.890 --> 01:25:40.559 and reconstructive surgery space.

NOTE Confidence: 0.790515968333333

01:25:40.560 --> 01:25:42.648 The medical devices, the the prosthesis,

NOTE Confidence: 0.790515968333333

01:25:42.650 --> 01:25:44.239 the implants they get better and better.

NOTE Confidence: 0.790515968333333

01:25:44.240 --> 01:25:45.944 We're on our fifth generation of

NOTE Confidence: 0.790515968333333

01:25:45.944 --> 01:25:48.018 implants at this point in time and

NOTE Confidence: 0.790515968333333

01:25:48.018 --> 01:25:49.776 they they increasingly get more sturdy.

NOTE Confidence: 0.790515968333333

01:25:49.780 --> 01:25:52.398 I have been in practice long enough.

NOTE Confidence: 0.790515968333333

01:25:52.400 --> 01:25:53.705 So president plants of silicone

NOTE Confidence: 0.790515968333333

01:25:53.705 --> 01:25:54.749 breast implants have been

NOTE Confidence: 0.790515968333333

01:25:54.749 --> 01:25:56.040 out for well over 50 years.

NOTE Confidence: 0.790515968333333

01:25:56.040 --> 01:25:58.287 And that first generation and even second

NOTE Confidence: 0.790515968333333

01:25:58.287 --> 01:26:00.276 generation when they ruptured it was it

NOTE Confidence: 0.790515968333333

01:26:00.276 --> 01:26:02.379 was a nightmare to to remove them and I

NOTE Confidence: 0.790515968333333

01:26:02.379 --> 01:26:05.072 I've had to do more than my fair share.

NOTE Confidence: 0.790515968333333

01:26:05.072 --> 01:26:07.626 This fifth generation they

NOTE Confidence: 0.790515968333333

01:26:07.626 --> 01:26:10.556 call them cohesive, stable so.

NOTE Confidence: 0.790515968333333

01:26:10.560 --> 01:26:11.456 The gummy bear implants.

NOTE Confidence: 0.790515968333333

01:26:11.456 --> 01:26:13.070 So you can imagine a gummy bear,

NOTE Confidence: 0.790515968333333

01:26:13.070 --> 01:26:14.126 if you cut a gummy bear in half,

NOTE Confidence: 0.790515968333333

01:26:14.130 --> 01:26:14.805 nothing leaks out.

NOTE Confidence: 0.790515968333333

01:26:14.805 --> 01:26:15.930 That's what all of these

NOTE Confidence: 0.790515968333333

01:26:15.930 --> 01:26:16.790 new devices are like,

NOTE Confidence: 0.790515968333333

01:26:16.790 --> 01:26:19.910 which is which is of of benefit in in many,

NOTE Confidence: 0.790515968333333

01:26:19.910 --> 01:26:21.046 many ways.

NOTE Confidence: 0.790515968333333

01:26:21.046 --> 01:26:25.590 One is they tended to have better durability.

NOTE Confidence: 0.790515968333333

01:26:25.590 --> 01:26:27.459 The second is that they tend to

NOTE Confidence: 0.790515968333333

01:26:27.459 --> 01:26:28.969 have longer and better projection

NOTE Confidence: 0.790515968333333

01:26:28.969 --> 01:26:30.925 for a longer period of time.

NOTE Confidence: 0.790515968333333

01:26:30.930 --> 01:26:33.106 So I would say and over the course

NOTE Confidence: 0.790515968333333

01:26:33.106 --> 01:26:35.162 of the year this most recent

NOTE Confidence: 0.790515968333333

01:26:35.162 --> 01:26:37.316 generations kind of come out and

NOTE Confidence: 0.790515968333333

01:26:37.387 --> 01:26:39.447 really has become very popular.

NOTE Confidence: 0.790515968333333

01:26:39.450 --> 01:26:39.800 Great.

NOTE Confidence: 0.6712608

01:26:41.400 --> 01:26:46.070 Greg, yeah, absolutely. You know,

NOTE Confidence: 0.885616018

01:26:46.080 --> 01:26:47.170 as we go through training,

NOTE Confidence: 0.800407766666667

01:26:47.180 --> 01:26:48.545 you know through residency and

NOTE Confidence: 0.800407766666667

01:26:48.545 --> 01:26:50.738 fellowship I think and also the the

NOTE Confidence: 0.800407766666667

01:26:50.740 --> 01:26:53.040 menu clinical trials we see at breast.

NOTE Confidence: 0.800407766666667

01:26:53.040 --> 01:26:55.501 I think I think what I've seen the

NOTE Confidence: 0.800407766666667

01:26:55.501 --> 01:26:57.583 most is the patients now inactive

NOTE Confidence: 0.783563756

01:26:57.600 --> 01:27:00.610 participant. Yeah, they they now

NOTE Confidence: 0.889677626428572

01:27:00.620 --> 01:27:02.924 have a big voice in terms of how

NOTE Confidence: 0.889677626428572

01:27:02.924 --> 01:27:04.597 much imaging they want to do,

NOTE Confidence: 0.889677626428572

01:27:04.600 --> 01:27:07.176 how much treatment they want to do.

NOTE Confidence: 0.889677626428572

01:27:07.180 --> 01:27:09.112 With the help of medical oncology

NOTE Confidence: 0.889677626428572

01:27:09.112 --> 01:27:11.529 we can reduce your tumor burden and

NOTE Confidence: 0.889677626428572

01:27:11.529 --> 01:27:13.294 give them more surgical options

NOTE Confidence: 0.889677626428572

01:27:13.294 --> 01:27:15.558 with the help of plastic surgery.

NOTE Confidence: 0.889677626428572

01:27:15.560 --> 01:27:17.205 You know we're able to give them

NOTE Confidence: 0.889677626428572

01:27:17.205 --> 01:27:18.806 more options and and I think what

NOTE Confidence: 0.889677626428572

01:27:18.806 --> 01:27:20.384 we're going to see more and more

156

01:27:20.384 --> 01:27:21.944 is more options of de escalation.

01:27:21.950 --> 01:27:24.035 You know as we're accumulating

01:27:24.035 --> 01:27:26.016 more trials we're finding that

01:27:26.016 --> 01:27:28.308 you know maybe less axillary lymph

01:27:28.308 --> 01:27:29.638 node dissections and surgeries,

01:27:29.638 --> 01:27:31.218 maybe patients are going to

01:27:31.218 --> 01:27:32.558 be doing just as well.

01:27:32.560 --> 01:27:35.916 We have a lot of trials that have met

01:27:35.916 --> 01:27:39.004 accuro and are going to be releasing their,

01:27:39.010 --> 01:27:41.229 you know their data in five years

01:27:41.229 --> 01:27:43.727 and I think it's nice to see

01:27:43.727 --> 01:27:45.567 you know the patient advocacy.

01:27:45.570 --> 01:27:47.844 For themselves and and they've really

01:27:47.844 --> 01:27:50.002 been an active participant and you

01:27:50.002 --> 01:27:51.742 know it's nice to see physicians

01:27:51.742 --> 01:27:54.331 who have had an open year and a lot

NOTE Confidence: 0.889677626428572

01:27:54.331 --> 01:27:55.959 of our conversations are are really

NOTE Confidence: 0.889677626428572

01:27:55.959 --> 01:27:57.800 you know geared toward them and and

NOTE Confidence: 0.889677626428572

01:27:57.862 --> 01:27:59.956 we're happy to provide all those

NOTE Confidence: 0.889677626428572

01:27:59.956 --> 01:28:01.460 different operations different options.

NOTE Confidence: 0.889677626428572

01:28:01.460 --> 01:28:03.060 So it's really been enlightening.

NOTE Confidence: 0.775706458

01:28:04.230 --> 01:28:05.830 Thank you. That's, that's great.

NOTE Confidence: 0.775706458

01:28:05.830 --> 01:28:07.180 Susan, you want to add something?

NOTE Confidence: 0.866679508888889

01:28:07.550 --> 01:28:09.454 I I would say that the thing I've

NOTE Confidence: 0.866679508888889

01:28:09.454 --> 01:28:11.514 seen over the last few years that's

NOTE Confidence: 0.866679508888889

01:28:11.514 --> 01:28:13.379 been gratifying on a personal level

NOTE Confidence: 0.866679508888889

01:28:13.379 --> 01:28:15.089 and I think my colleagues are,

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01:28:15.090 --> 01:28:17.922 we're just enjoying working with our

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01:28:17.922 --> 01:28:20.488 plastics colleagues and making sort

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01:28:20.488 --> 01:28:23.559 of this I think multidisciplinary

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01:28:23.559 --> 01:28:26.072 efforts of knowing when and how to

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01:28:26.072 --> 01:28:28.140 kind of coordinate the radiation

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01:28:28.140 --> 01:28:30.720 with regard to all the different

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01:28:30.720 --> 01:28:32.335 reconstruction techniques has been

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01:28:32.335 --> 01:28:34.567 really gratifying and as they check.

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01:28:34.570 --> 01:28:35.658 Says the techniques change.

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01:28:35.658 --> 01:28:38.260 We like to learn how to change with them.

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01:28:38.260 --> 01:28:41.596 So I think that, you know,

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01:28:41.600 --> 01:28:43.712 radiation therapy in the post mastectomy

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01:28:43.712 --> 01:28:46.119 setting has gotten more and more complex,

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01:28:46.120 --> 01:28:48.775 but in a good way because I think that.

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01:28:48.780 --> 01:28:50.072 Our group, you know,

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01:28:50.072 --> 01:28:52.318 we all have very good communication and

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01:28:52.318 --> 01:28:54.496 we're able to sort of preempt a lot of

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01:28:54.562 --> 01:28:57.588 the issues that I think maybe in the

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01:28:57.588 --> 01:29:00.505 beginning of many years ago when we

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159

01:29:00.505 --> 01:29:02.600 people started doing plastics procedures,

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01:29:02.600 --> 01:29:03.800 we didn't know all the questions

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01:29:03.800 --> 01:29:04.600 to ask up front.

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01:29:04.600 --> 01:29:07.352 But now I think we have a really

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01:29:07.352 --> 01:29:08.990 great workflow for communicating

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01:29:08.990 --> 01:29:11.140 with their colleagues and patients

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01:29:11.140 --> 01:29:13.528 get really good oncologic as well

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01:29:13.528 --> 01:29:15.353 as plastics outcomes because we're

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01:29:15.353 --> 01:29:17.703 all sort of on the same page and

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01:29:17.703 --> 01:29:18.794 speaking the same language.

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01:29:18.794 --> 01:29:20.378 So I think our patients really

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01:29:20.378 --> 01:29:21.170 benefit from that.

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01:29:21.170 --> 01:29:23.834 I think all of us have a lot of

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01:29:23.834 --> 01:29:25.064 sort of satisfaction from that

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01:29:25.064 --> 01:29:26.721 part of our job and it continues

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01:29:26.721 --> 01:29:28.030 to evolve and get better.

NOTE Confidence: 0.952463066666667

01:29:30.020 --> 01:29:31.280 Thank you. Thank you very much.

NOTE Confidence: 0.952463066666667

01:29:31.280 --> 01:29:33.344 I think we are just about to overtime

NOTE Confidence: 0.952463066666667

01:29:33.344 --> 01:29:35.246 and I really greatly appreciate all

NOTE Confidence: 0.952463066666667

01:29:35.246 --> 01:29:37.617 of you for joining us and really

NOTE Confidence: 0.952463066666667

01:29:37.617 --> 01:29:39.885 appreciate for what you do every day

NOTE Confidence: 0.952463066666667

01:29:39.885 --> 01:29:41.704 and thanks everyone for joining in.

NOTE Confidence: 0.952463066666667

01:29:41.704 --> 01:29:42.868 Have a great night.

NOTE Confidence: 0.888579366666667

01:29:43.180 --> 01:29:45.850 Thanks very much. Thank you. Take care.